

DEPARTMENT OF MINES AND ENERGY
SOUTH AUSTRALIA

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BIBLIOGRAPHY OF NEPHRITE JADE
TO 1987

by

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SENIOR GEOLOGISTS
MINERAL RESOURCES BRANCH

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BIBLIOGRAPHY OF NEPHRITE JADE TO 1987

INTRODUCTION

The bibliography was compiled as part of the geological investigations on jade by staff of Mineral Resources Branch, South Australian Department of Mines and Energy (SADME) since discovery of nephrite near Cowell in 1966 by the late Harry A. Schiller.

Early geological assessments (Nichol, 1974; 1975; 1977) compared Cowell jade with other nephrite deposits but suffered from poorer information systems available at that time. The current phase of geological mapping, surveying and drilling has been aided by considerably improved information systems and has enabled compilation of 'A world review of nephrite jade - geology, production and reserves' (Barnes et al., 1987).

This bibliography concentrates on nephrite jade and on those articles discussing some aspect of geology. As such, it includes many articles on gemmology but is not exhaustive and only covers relatively rare articles on jade carving. No attempt has been made to include references on jadeite however, where such references have been found these have also been included. References include unpublished reports, particularly those compiled by SADME.

References have been compiled from two main sources. Firstly, by research of the authors and secondly from computer searches through DIALOG Information Services Inc. of Palo Alto, California. Two on-line searches of their databases GEOREF, GEOARCHIVE and NTIS were conducted on 23rd November 1984 and on 1st September 1986.

The first search sought references detailing mineralogy, texture and chemistry of nephrite as well as those containing descriptions of the geology, particularly any of marble-hosted nephrite deposits. Although the Cowell deposit had been earlier regarded as a unique type, this is not so with at least a Wyoming and probably a Korean deposit being very similar. Initial search was on keywords 'jade and nephrite'; this automatically excluded many but not all references where 'jade' or 'nephrite' were major features of the article. This reduced the output to manageable proportions and removed many of the lapidary and gemmological references. The main advantage of GEOREF is that it includes U.S. references back to 1929 but this search criteria yielded only one post-1960 reference and few non-North American occurrences. Indexing techniques have apparently changed for GEOREF as the same style of 1930-1960 references were not obtained for 1960-1984. As expected, GEOARCHIVE had a wider international base of published references but, at the time, was only available for the period 1974-1984 but that three 1973 references were printed. References obtained through GEOARCHIVE had both a high degree of relevance and geographical spread. Both databases yielded references discussing various aspects of jade simulants. The NTIS database was essentially 1964-1984 unpublished material on projects which had received US government financial support. This database essentially yielded references on quantum physics where the acronym JADE had been used. Results of the first search are included as Appendix A.

The second search, on 1st September 1986 sought to update the earlier search i.e. post - 1960 references of GEOREF and post-1979 references of GEOARCHIVE. Search criteria were essentially the same i.e. 'jade or nephrite' as keywords. Searches of both databases were successful and the results are included as Appendix B.

This bibliography has been updated to include several 1987 references but is still biased towards those references discussing some aspect of geology rather than simply narrating a gem-hunting trip. References cited total 216; their geographic spread is listed below.

Australia	30
Burma	2
Canada	8
China	11
Guatemala	1
Korea	2
New Zealand	15
Pakistan	1
Poland	3
South Africa	3
Switzerland	2
Taiwan	16
USA - Alaska	10
- California	25
- North Carolina	2
- Georgia	1
- Oregon	2
- Washington	4
- Wyoming	23
USSR	14
Venezuela	1
Zimbabwe	3
General/non-specific	37

The exclusion of jadeite references is obvious with very few references for Burma, Guatemala and Venezuela.

References are listed alphabetically by surname of the principal author. Most references cited were obtained by the authors and copies held in Departmental files.

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APPENDIX A

BIBLIOGRAPHY SEARCH ON 23 NOV. 1984
OF GEOREF, GEOARCHIVE AND NTSIS THROUGH
DIALOG INFORMATION SERVICES INC.

File(s) searched:

File 89:GEOREF - 29-84/Nov (Copr. American Geological
Institute)

Sets selected:

Set	Items	Description
1	196	JADE/DE.ID
2	112	NEPHRITE/DE.ID
3	258	1 OR 2
4	49	SS 3/MAJ

Prints requested:

Date	Time	Description
23Nov84	00:18:04	PRINT 4/5/1-49

DIALOG File 89: GEOREF - 29-84/Nov (Copr. American Geological Institute)

- 465988 69-09662-N
TRACE ELEMENTS OF JADE
RONZIO, A. R.; SALMON, MERLYN.
GEMS AND MINERALS, NO. 381, P. 29 1969
Subfile: N
Descriptors: *GEMS; *GEOCHEMISTRY; *JADE; *NORTH AMERICA;
*TRACE-ELEMENT ANALYSES
- 272197 59-34442-N
Jadeite of San Benito County, California
Yoder, Hatten Schuyler, Jr; Chesterman, Charles Wesley
Calif. Dept. Nat. Res., Div. Mines Special Rept. 10-C 8 p.,
illus., Sept., 1951
Subfile: N
Descriptors: *California; *Gems and Gem Materials; *Jade;
*Mineral Deposits; Mineralogy; Jadeite; Clear Creek area;
origin
- 264212 59-26143-N
Genesis of jadeite by low-grade metamorphism
Roever, W.P.de
Am. Jour. Sci. v. 253, no. 5, p. 283-298, illus., May,
1955
Subfile: N
Descriptors: *Jade; *Metamorphism; Formation by low-grade
metamorphism; Jadeite
- 264023 59-25946-N
**Experimental determination of jadeite stability relations to
25,000 bars**
Robertson, Eugene Corley; Birch, Albert Francis; MacDonald,
Gordon J. F.
Am. Jour. Sci. v. 255, no. 2, p. 115-137, illus., Feb.,
1957
Subfile: N
Descriptors: *Experimental Investigations; *Jade; *Systems
; Jadeite; Stability; 25,000 bars; experimental; stability
relations to 25,000 bars
- 263283 59-25177-N
Jade--gem mystery and romance
Randolph, Gladys Cora
Mineralogist v. 25, no. 1, p. 8-11, Jan., 1957
Subfile: N
Descriptors: *Gems and Gem Materials; *Jade; General
- 259147 59-20864-N
Jade-nephrite and jadeite--[Pt.1]
Menzel, William E.
Marquette Geologists Assoc. Bull. v. 15, no. 6, p. 11-12(),
Feb., 1953
Subfile: N
- [Pt. 2] no. 7, p. 6-8(), Mar. 1953; [Pt. 3] no. 8, p.
9-11(), Apr. 1953.
Descriptors: *Jade; *Nomenclature; Terminology; Jade
minerals
- 255755 59-17354-N
**A thermodynamic study of the stability of jadeite, [Pt.] 1
of Thermochemistry of mineral substances**
Kracek, Frank Charles. 1890-1960; Neuvonen, Kalle J.;
Burley, Gordon
Washington Acad. Sci. Jour. v. 41, no. 12, p. 373-383,
illus., Dec., 1951
Subfile: N
Descriptors: *Experimental Investigations; *Jade;
*Mineralogy; Jadeite; Stability; Thermodynamic study
- 255629 59-17220-N
Quartz crystals in jade [Wyo.]
Kohn, Walter
Gems & Minerals no. 240, p. 22-24, illus., Sept., 1957
Subfile: N
Descriptors: *Jade; *Wyoming; *Popular and Elementary
Geology; Mineralogy; Quartz crystals in nephrite;
alteration; popular account; Quartz; Crystals in jade
- 251368 59-12769-N
Arctic jade
Halpern, Joel Martin
Rocks and Minerals v. 28, nos. 5-6, p. 237-242, illus.,
May-June, 1953
Subfile: N
Descriptors: *Arctic America; *Jade; Mineralogy;
localities
- 248933 59-10250-N
Mineralogical studies on Guatemalan jade
Foshag, William Frederick, 1894-1956
Smithsonian Misc. Coll. v. 135, no. 5, 60 p., illus., Dec.
3, 1957
Subfile: N
Descriptors: *Gems and Gem Materials; *Jade; *Guatemala;
Mineralogy; Archeological; mineral studies; archeological
mineral studies
- 248930 59-10247-N
Chalchihuitl--a study in jade [Guatemala]
Foshag, William Frederick, 1894-1956
Am. Mineralogist v. 40, nos. 11-12, p. 1062-1070, tables,
Nov.-Dec., 1955
Subfile: N

(cont. next page)

DIALOG

DIALOG File 89: GEOREF - 29-84/Nov (Copr. American Geological Institute)

Descriptors: *Gems and Gem Materials; *Jade; *Guatemala ;
Mineralogy : archeological; jadeite; chalchihuitl; Aztec
gem stone

248929 59-10246-N

Jadeite from Manzanal, Guatemala

Foshag, William Frederick, 1894-1956; Leslie, Robert
Am. Antiquity v. 21, no. 1, p. 81-83, July, 1955

Subfile: N

Descriptors: *Guatemala; *Jade; *Mineral Descriptions ;
Mineralogy : Jadeite; Manzanal area; Occurrence

245570 59-06801-N

Nephrite jade and associated rocks of the Cape San Martin region, Monterey County, California

Crippen, Richard Aubrey, Jr
Calif. Dept. Nat. Res., Div. Mines Special Rept. 10-A 14
p., illus. incl. geol. sketch map, May, 1951

Subfile: N

Descriptors: *California; *Geologic maps; *Gems and Gem
Materials; *Jade; *Mineral Deposits ; Mineralogy ; Cape San
Martin-Plaskett region; Nephrite; Cape San Martin- Plaskett
region; origin

244948 59-06161-N

Genesis of jadeite from San Benito County, California [abs.]

Coleman, Robert Griffin
Geol. Soc. America Bull. v. 70, no. 12, pt. 2, p. 1583,
Dec., 1959

Subfile: N

Descriptors: *California; *Gems and Gem Materials; *Jade ;
Mineralogy : Jadeite; New Idria serpentine body inclusions;
origin

244946 59-06159-N

Optical and chemical study of jadeite from California [abs.]

Coleman, Robert Griffin
Geol. Soc. America Bull. v. 65, no. 12, pt. 2, p. 1241,
Dec., 1954

Subfile: N

Am. Mineralogist, v. 40, nos. 3-4, p. 312, Mar.-Apr. 1955..
Descriptors: *California; *Jade; *Mineral Descriptions ;
Mineralogy : Jadeite; San Benito County; Optical and
chemical study; Jadeite

244939 59-06152-N

Jadeite from San Benito County, California

Coleman, Robert Griffin
Gems and Gemology v. 8, no. 11, p. 331-334, illus., Fall,
1956

Subfile: N

Descriptors: *California; *Gems and Gem Materials; *Jade;

*Mineral Descriptions : Mineralogy : Jadeite; San Benito
County; Jadeite

244823 59-06035-N

Mining and processing American jade [Wyo.]

Cobb, Harrison S.

Colo. Min. Assoc. Min. Year Book 1950 p. 53, 55, illus.,
1950

Subfile: N

Descriptors: *Gems and Gem Materials; *Jade; *Wyoming ;
Economic geology; Mineralogy : Fremont County

244381 59-05577-N

Nephrite in Marin County, California

Chesterman, Charles Wesley
Calif. Dept. Nat. Res., Div. Mines Special Rept. 10-B 11
p., illus. incl. geol. map, July, 1951

Subfile: N

Descriptors: *California; *Geologic maps; *Gems and Gem
Materials; *Jade; *Mineral Deposits ; Mineralogy : Massa
Hill area; Nephrite; origin

241859 59-02954-N

First jadeite discovery [in] America [Calif.]

Bolander, Louis Phillip, Jr., 1887-1950

Mineralogist v. 18, no. 4, p. 186, 188, Apr., 1950

Subfile: N

Descriptors: *California; *Jade ; Mineralogy : Jadeite;
San Benito County; Gem mine area

241752 59-02840-N

Jadeite-bearing metagraywackes in California

Bloxam, T. W.

Am. Mineralogist v. 41, nos. 5-6, p. 488-496, illus.,
May-June, 1956

Subfile: N

Descriptors: *California; *Jade; *Metamorphic Rocks ;
Mineralogy; Petrology ; Jadeite; Franciscan metagraywackes;
origin

240459 59-01488-N

A note on jadeite from Manzanal, Guatemala

Barbour, George Brown

Am. Antiquity v. 22, no. 4, pt. 1, p. 411-412, Apr., 1957

Subfile: N

Descriptors: *Guatemala; *Jade; *Metamorphic Rocks ;
Mineralogy ; Jadeite; Manzanal area; Jadeite lenses

DIALOG File 89: GEOREF - 29-84/Nov (Copr. American Geological Institute)

240455 59-01484-N

The nature of jade--[Pt. 1]

Barber, Raymond Jenness

Gems and Gemology v. 8, no. 2, p. 38-46, illus., Summer, 1954

Subfile: N

Pt. 2, v. 8, no. 3, p. 67-77, illus., Fall 1954.

Descriptors: *Gems and Gem Materials; *Jade; *Mineralogy ;
General

239099 59-00104-N

A note on the stability of jadeite

Adams, Leason Heberling

Am. Jour. Sci. v. 251, no. 4, p. 299-308, illus., April, 1953

Subfile: N

Descriptors: *Experimental Investigations; *Jade;
*Mineralogy ; Jadeite; Heat and pressure effects; stability

178515 49-19161-N

Rare Wyoming jade find

Anonymous

Mineralogist v. 14, no. 4, p. 176-177, illus., Apr., 1946

Subfile: N

Descriptors: *Gems and gem materials; *Jade; *Wyoming ;
Economic geology; Mineralogy ; Lander area

178453 49-19098-N

Jade Mountain, Alaska

Anonymous

Rocks and Minerals v. 20, no. 1, p. 12, Jan., 1945

Subfile: N

Descriptors: *Alaska; *Jade ; Mineralogy ; Jade Mtn.

178430 49-19075-N

Wyoming jade

Anonymous

Gems and Gemology v. 4, no. 11, p. 170, Fall, 1944

Subfile: N

Descriptors: *Gems and gem materials; *Jade; *Wyoming ;
Mineralogy ; Nephrite; Nephrite jade

178208 49-18847-N

Jadeite problem [abs.]

Yoder, Hatten Schuyler, Jr

Geol. Soc. Am. Bull. v. 60, no. 12, pt. 2, p. 1933, Dec., 1949

Subfile: N

Descriptors: *Jade; *Mineral descriptions ; Jadeite problem
; Jadeite

173769 49-14262-N

Nephrite jade from Monterey County, California [abs.]

Rogers, Austin Flint

Geol. Soc. Am. Bull. v. 51, no. 12, pt. 2, p. 1941, Dec. 1, 1940

Subfile: N

Am. Mineralogist, v. 26, no. 3, p. 202, Mar. 1941.

Descriptors: *California; *Gems and gem materials; *Jade ;
Mineralogy; Petrology ; Nephrite jade; Monterey County;
Nephrite

173464 49-13945-N

Hunting jade in Wyoming

Rhoads, Bert A.

Mineralogist v. 11, no. 12, p. 371-373, 382, illus., Dec., 1943

Subfile: N

Descriptors: *Jade; *Wyoming ; Economic geology; Petrology

170840 49-11245-N

British Columbia, gem notes

Marshall, J. S.

Mineralogist v. 12, no. 6, p. 184-189 incl. ads., June, 1944

Subfile: N

Descriptors: *Agates; *British Columbia; *Jade; *Jasper ;
Mineralogy ; gem stones

169199 49-09548-N

Adventure in jade.

Kraft, James Lewis

81 p., illus., New York, Henry Holt & Co., [1947]

Subfile: N

Descriptors: *Jade; *North America ; Economic geology;
Mineralogy

167116 49-07360-N

Jade in California

Henley, R. F.

Rocks and Minerals v. 22, no. 12, p. 1114-1115, illus., Dec., 1947

Subfile: N

Descriptors: *California; *Jade; *Gems and gem materials ;
Mineralogy ; Monterey County coast; nephrite

DIALOG File 89: GEOREF - 29-84/Nov (Copr. American Geological Institute)

163726 49-03848-N

The magic and lore of jade

Dake, Marguerite

Mineralogist v. 14, no. 7, p. 343-346, July, 1946

Subfile: N

Descriptors: *Jade; *Popular and elementary geology;

*Wyoming; Economic geology; Mineralogy; Magic and lore

163718 49-03840-N

Jade--oldest gem stone known

Dake, Henry Carl

Mineralogist v. 16, no. 1, p. 3-8, Jan., 1948

Subfile: N

Descriptors: *Gems and gem materials; *Jade; *Mineral
descriptions; General

163714 49-03836-N

New jade strike [near Lander, Wyo.]

Dake, Henry Carl

Mineralogist v. 15, no. 1, p. 20, Jan., 1947

Subfile: N

Descriptors: *Jade; *Wyoming; Economic geology;
Mineralogy; Lander area

163711 49-03833-N

Jade found 1936 [in Wyoming]

Dake, Henry Carl

Mineralogist v. 14, no. 10, p. 558, Oct., 1946

Subfile: N

Descriptors: *Biography; *Jade; *Wyoming; Economic geology
; Mineralogy; Harstad; A. J.

163705 49-03827-N

Alaska jade deposits

Dake, Henry Carl

Mineralogist v. 13, no. 9, p. 328-329, illus., Sept., 1945

Subfile: N

Descriptors: *Alaska; *Gems and gem materials; *Jade;
Economic geology; Mineralogy; Jade deposits

163704 49-03826-N

Notes on quartz minerals of Oregon

Dake, Henry Carl

Mineralogist v. 13, no. 3, p. 83-86, Mar., 1945

Subfile: N

Descriptors: *Agates; *Oregon; *Chalcedony; *Garnet; *Gems
and gem materials; *Quartz; *Geodes; *Jade; *Jasper; *Opal;
*Paleobotany; *Thunder eggs; *Zeolites; Mineralogy;
Localities; grossularite localities; quartz mineralslocalities; Quartz minerals; Petrified wood; collecting
localities; Natrolite

163698 49-03820-N

Jade in Wyoming, new discoveries

Dake, Henry Carl

Mineralogist v. 10, no. 9, p. 275-276, illus., Sept., 1942

Subfile: N

Descriptors: *Jade; *Wyoming; Economic geology;
Mineralogy

163124 49-03231-N

The Long Creek [Wyo.] jade deposit

Cobb, Harrison S.

Mineralogist v. 17, no. 1, p. 44, Jan., 1949

Subfile: N

Descriptors: *Jade; *Wyoming; *Mineral deposits; *origin;
Mineralogy; Petrology; Long Creek; Long Creek jade

161748 49-01812-N

The finding of a great gem stone [green jade, Wyo.]

Branham, Allan William

Rocks and Minerals v. 22, no. 5, p. 414-415, May, 1947

Subfile: N

Descriptors: *Gems and gem materials; *Jade; *Wyoming;
Mineralogy; green

161747 49-01811-N

A New discovery of jade [near Lander, Wyo.] that resembles
Fraser River [British Columbia] material

Branham, Allan William

Rocks and Minerals v. 21, no. 12, p. 838, Dec., 1946

Subfile: N

Descriptors: *Gems and gem materials; *Jade; *Wyoming;
Economic geology; Mineralogy; green

161746 49-01810-N

Jade, Wyoming and oriental

Branham, Allan William

Mineralogist v. 12, no. 1, p. 9-10, Jan., 1944

Subfile: N

Descriptors: *Gems and gem materials; *Jade; *Wyoming;
Economic geology; green

DIALOG File 89: GEOREF - 29-84/Nov (Copr. American Geological Institute)

Subfile: N
Descriptors: *Jade; *Identification by X-ray; *Mineralogy ;
Jade identification

161745 49-01809-N
Jade found in Wyoming
Branham, Allan William
Mineralogist v. 9, no. 3, p. 79-80, Mar., 1941
Subfile: N
Descriptors: *Jade; *Wyoming ; Mineralogy

161009 49-01039-N
A rock hound's vacation
Bateman, Ernest S.
Mineralogist v. 14, no. 6, p. 286-290, June, 1946
Subfile: N
Descriptors: *Agates; *Washington; *Oregon; *Wyoming; *Jade;
*Quartz; *Thunder eggs ; Mineralogy ; Collecting localities;
and Wyoming; mineral collecting; Collecting; Oregon and
Wyoming; carnelian

160306 49-00315-N
Asbestos and jade occurrences in the Kobuk River region,
Alaska
Anderson, Eskill
Alaska Dept. Mines Pamph. no. 3-R, 26 p., illus. incl.
index, geol. sketch maps, 1945
Subfile: N
Descriptors: *Alaska; *Asbestos; *Jade; *Mineral deposits ;
Economic geology; Geologic maps ; Kobuk River area

100664 39-21836-N
Nephrite in Wyoming
Anonymous
Rocks and Minerals vol. 14, no. 7, pp. 210-211, July,
1939
Subfile: N
Descriptors: *Nephrite; *Wyoming ; Mineralogy

100658 39-21830-N
Nephrite and jadeite in Washington
Anonymous
Rocks and Minerals vol. 14, no. 4, pp. 112-116, 3 figs.
incl. index map, April, 1939
Subfile: N
Descriptors: *Jadeite; *Wash.; *Nephrite; *Washington ;
Mineralogy

092057 39-12961-N
The identification of jade by means of X-ray diffraction
patterns
Merrit, Phillip Leonidas
Am. Mineralogist vol. 17, no. 11, pp. 497-508, 4 figs.,
November, 1932

A **Dialog*** SEARCH FROM THE GEOARCHIVE DATABASE

For: _____
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If you have any questions, please call:

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Topic of search: _____

Searcher: _____

Date: _____

The attached report is the result of a search of the GEOARCHIVE database using the Dialog Information Retrieval Service.

GEOARCHIVE is a comprehensive geoscience database indexing more than 100,000 references each year. Information indexed annually for GEOARCHIVE includes more than 5,000 serials, books from more than 1,000 publishers, several hundred conferences, doctoral dissertations, and technical reports. About 100,000 geological maps from the Institute of Geological Sciences libraries are being indexed and added to GEOARCHIVE. GEOARCHIVE as such has no printed equivalent, but several secondary publications are printed from the information contained in the GEOARCHIVE database including Geotitles Weekly, Geocom Bulletin, Geoscience Documentation, and the Bibliography of Vertebrate Paleontology. Mineral and petroleum production and resources, names of new taxa, new minerals, and new stratigraphic names are specific examples of the data currently being entered into GEOARCHIVE, which broadly covers the fields of geophysics, geochemistry, geology, and mathematical geology.

SAMPLE RECORD

The positions of the key fields are shown in the following sample record.

JA AN 0490079 GA399001086
 TI Quadra sand a study of the late Pleistocene geology and geomorphic history of coastal southwest British Columbia
 AU CLAGUE, JJ
 JN Pap Geol Surv Can (Ottawa)
 PY 1977
 77/17 24P
 JC PGSCAI
 LA LANGUAGE: ENGLISH
 DE DESCRIPTORS: LITHOSTRATIGRAPHIC UNITS; SANDSTONES & QUARTZITES; STRATIGRAPHIC NOMENCLATURE; SEDIMENTARY STRUCTURES; SEDIMENTARY ROCKS
 GS AUXILIARY DESCRIPTORS: BRITISH COLUMBIA; COASTAL AREAS; PLEISTOCENE
 DC DESCRIPTOR CODES: 763500; 553300; 761800; 556000; 552000
 GC AUXILIARY DESCRIPTOR CODES: 743700; 006000; 091000
 (Copyright by Geosystems, Inc., 1984)
Key to Data Fields

AN	Geosystems Acc. No.	JA	Journal Announcement
AU	Author	JC	Journal Code
BN	Book Number	JN	Journal Name
DC	Descriptor Code	LA	Language
DE	Descriptor	PU	Publisher
DT	Document Type	PY	Publication Year
GC	Auxiliary Descriptor Code	TI	Title
GS	Auxiliary Descriptor		

Data present in record depends on output format requested and type of record.

File(s) searched:

File 58:GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

Sets selected:

Set	Items	Description
1	0	JADE/DE,1D
2	0	JADE/DE
3	54	JADE
4	37	NEPHRITE
5	121	JADEITE
6	1	JADEITITES
7	83	3 OR4
8	122	5 OR 6
9	177	7 OR 8
10	141	SS9/MAJ
11	73	SS7/MAJ

Prints requested:

Date	Time	Description
23Nov84	00:26:03	PRINT 7/5/1-73

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

0783664 GA700001302

Colour of nephrite and amethyst in the light of the latest mineralogical studies

HEFLIK, W; NATKANIEC-NOWAK, L; PITERA, H

Przegl Geol (Warsaw) 30/3 P119-121 1982 JRNL CODE:

PGWARI

LANGUAGE: POLISH

DESCRIPTORS: SILICA MINERALS; TREMOLITE-FERROACTINOLITE

SERIES: OPTICAL PROPERTIES OF MINERALS

DESCRIPTOR CODES: 528300; 525400; 510500

0780773 GA692003024

A petrography of 'jade axes' from the eastern and southern Netherlands

OVERWEEL, CJ

Geol Mijnbouw (Leiden) 62/3 P427-430 1983 JRNL CODE:

GMIJN1

LANGUAGE: ENGLISH

DESCRIPTORS: ARTIFACT PETROLOGY; SPODUMENE & JADEITE;

TREMOLITE-FERROACTINOLITE SERIES; ECLOGITES

AUXILIARY DESCRIPTORS: NETHERLANDS

DESCRIPTOR CODES: 782500; 524600; 525400; 549950

AUXILIARY DESCRIPTOR CODES: 202000

0778989 GA692001229

Clinzoisitic rocks in the nephrite area of Fengtien to Silin, Hualien

CHEN, CC

Proc Geol Soc China (Taipei) 25 P53-66 1982 JRNL CODE:

PGSCHI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; EPIDOTE

GROUP; ASBESTOS DEPOSITS; MINERAL EXPLORATION; GEOCHEMISTRY

AUXILIARY DESCRIPTORS: TAIWAN

DESCRIPTOR CODES: 525400; 521800; 472100; 333000; 660000

AUXILIARY DESCRIPTOR CODES: 545000

0769706 GA680001077

Nephrite occurrences in the Granite Mountains region of Wyoming

MADSON, ME

CONF. DATES: 10 SEPTEMBER TO 13 SEPTEMBER 1978 NO. 78-0421

Guides Wyo Geol Assoc (Casper) 1978 P393-397 1978 JRNL

CODE: GWGASI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; SEMI-PRECIOUS

STONES; GNEISSES; GRANITES & ADAMELLITES; MINERALOGICAL

COMPOSITION OF DEPOSITS

AUXILIARY DESCRIPTORS: WYOMING

DESCRIPTOR CODES: 525400; 483000; 549400; 543100; 415100

AUXILIARY DESCRIPTOR CODES: 793500

0735688 GA649000577

The filamentary caethite in the Hei-Wang type limonite ore deposit in Lu-Zhong of China - a new type of jade raw material

SUN, WJ; WANG, FQ; ZHANG, ML

J Changchun Geol Inst Dizhi Xucyuan Xuebao (Chang 2 P29-32

1980 JRNL CODE: JCGICI

LANGUAGE: CHINESE

DESCRIPTORS: SEMI-PRECIOUS STONES; SPODUMENE & JADEITE; LIMONITIC ORES

AUXILIARY DESCRIPTORS: CHINA

DESCRIPTOR CODES: 483000; 524600; 421400

AUXILIARY DESCRIPTOR CODES: 501000

0704313 GA609000590

Heat capacities of the alkali feldspars between 350 and 1000 K from differential scanning calorimetry, the thermodynamic functions of the alkali feldspars from 298.15 to 1400 K and the reaction quartz + jadeite = analbite

HEMINGWAY, BS; KRUPKA, KM; ROBIE, RA

Am Mineral (Washington DC) 66/11-12 P10388-104 1981 JRNL

CODE: AMINEI

LANGUAGE: ENGLISH

DESCRIPTORS: ALKALI FELDSPARS; CHEMISTRY OF MINERALS;

THERMODYNAMICS

DESCRIPTOR CODES: 528100; 510300; 661200

0701364 GA606000623

Trace elements and color of the Fengtien Nephrite, Taiwan

TAN, LP; TSUI, PC

Spec Publ NSC (Taipei) 1 P29-41 1978 JRNL CODE:

SPNSCI

LANGUAGE: ENGLISH

DESCRIPTORS: TRACE ELEMENT GEOCHEMISTRY; TREMOLITE-FERROACTINOLITE SERIES; MINERALOGY; LABORATORY METHODS

AUXILIARY DESCRIPTORS: TAIWAN

DESCRIPTOR CODES: 661700; 525400; 510000; 820000

AUXILIARY DESCRIPTOR CODES: 545000

0701258 GA606000511

Carbonate minerals in relation to nephrite deposits, Fengtien area, Hualien (Taiwan)

CHEN, CC

Spec Publ NSC (Taipei) 1 P70-76 1978 JRNL CODE:

SPNSCI

LANGUAGE: ENGLISH

DESCRIPTORS: CARBONATES; TREMOLITE-FERROACTINOLITE SERIES; TRACE ELEMENT GEOCHEMISTRY

AUXILIARY DESCRIPTORS: TAIWAN

DESCRIPTOR CODES: 537000; 525400; 661700

AUXILIARY DESCRIPTOR CODES: 545000

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

0701235 GA606000488

Mineralogy of the nephrite in the Fengtien area, Hualien, Taiwan

TAN, L; LEE, CW; TIEN, P
Spec Publ NSC (Taipei) 1 P1-28 1978 JRNL CODE: SPNSCILANGUAGE: ENGLISH
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; MINERALOGY; CHEMISTRY OF MINERALS; PHYSICAL PROPERTIES OF MINERALS; MINERAL ZONINGAUXILIARY DESCRIPTORS: TAIWAN
DESCRIPTOR CODES: 525400; 510000; 510300; 510400; 415200
AUXILIARY DESCRIPTOR CODES: 545000

0701234 GA606000487

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

TAN, L; LEE, CW; CHEN, C; TIEN, P
Spec Publ NSC (Taipei) 1 81P 1978 JRNL CODE: SPNSCI
LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; MINERALOGY; MINERAL ZONING; MINERALOGICAL COMPOSITION OF DEPOSITS

AUXILIARY DESCRIPTORS: TAIWAN
DESCRIPTOR CODES: 525400; 510000; 415200; 415100
AUXILIARY DESCRIPTOR CODES: 545000

0701091 GA606000344

Minerals associated with the nephrite in the Fengtien area, Hualien, Taiwan

LEE, CW; TIEN, PL; YUI, TF
Spec Publ NSC (Taipei) 1 P42-69 1978 JRNL CODE: SPNSCILANGUAGE: ENGLISH
DESCRIPTORS: MINERAL ZONING; TREMOLITE-FERROACTINOLITE SERIES; MINERALOGY; LABORATORY METHODS; AMPHIBOLITES & SERPENTINITES; METAMORPHIC ROCKSAUXILIARY DESCRIPTORS: TAIWAN
DESCRIPTOR CODES: 415200; 525400; 510000; 820000; 549900; 549000

AUXILIARY DESCRIPTOR CODES: 545000

0686464 GA591000732

Africa's 'jade' mined, carved and exported by a local firm (verdiite, quartz)

Min Eng (Salisbury) 46/8 P9-11 1981 JRNL CODE: MENGSI

LANGUAGE: ENGLISH
DESCRIPTORS: QUARTZ (GEM)
AUXILIARY DESCRIPTORS: ZIMBABWE
DESCRIPTOR CODES: 483500
AUXILIARY DESCRIPTOR CODES: 677000

0680639 GA586000737

North Carolina nephrite

ZEITNER, JC
Lapidary J (San Diego) 35/6 P1180-1192 1981 JRNL CODE: LJOURILANGUAGE: ENGLISH
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; MINERAL COLLECTING; GEMSTONESAUXILIARY DESCRIPTORS: NORTH CAROLINA
DESCRIPTOR CODES: 525400; 310300; 481000
AUXILIARY DESCRIPTOR CODES: 778000

0673874 GA582000692

Jade discovered in North Carolina

Lapidary J (San Diego) 35/4 P923 1981 JRNL CODE: LJOURI

LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL DISCOVERIES
AUXILIARY DESCRIPTORS: NORTH CAROLINA
DESCRIPTOR CODES: 483000; 333100

AUXILIARY DESCRIPTOR CODES: 778000

0672131 GA581000768

A block of jade

PELOUBET, D
Lapidary J (San Diego) 35/5 P1054-1057 1981 JRNL CODE: LJOURILANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL COLLECTING; SAMPLE PREPARATION
DESCRIPTOR CODES: 483000; 310300; 824000

0666242 GA577000076

Looking for jade

PICARD, MD
J Geol Educ (Washington DC) 29/3 P140-142 1981 JRNL CODE: JGEDUTLANGUAGE: ENGLISH
DESCRIPTORS: MINERAL COLLECTING; SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: UTAH
DESCRIPTOR CODES: 310300; 483000
AUXILIARY DESCRIPTOR CODES: 795700

0657816 GA572000844

Nephrite in Marin county, California

CHESTERMAN, CW
Spec Publ Calif Div Mines Geol (Sacramento) 49 P19-27
1976 JRNL CODE: SPCDMI
LANGUAGE: ENGLISH

(cont. next page)

dpn

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; OPTICAL
PROPERTIES OF MINERALS; CHEMISTRY OF MINERALS; SERPENTINE
GROUP; TREMOLITE-FERROACTINOLITE SERIES
AUXILIARY DESCRIPTORS: CALIFORNIA
DESCRIPTOR CODES: 525400; 510500; 510300; 526800; 525400
AUXILIARY DESCRIPTOR CODES: 796300

0657813 GA572000841

Nephrite jade and associated rocks of the Cape San Martin
region, Monterey county, California

CRIPPEN, RA

Spec Publ Calif Div Mines Geol (Sacramento) 49 P7-18 1976

JRNL CODE: SPCDMI

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE; TREMOLITE-FERROACTINOLITE
SERIES; METASOMATISM; HYDROTHERMAL DEPOSITS; METAMORPHIC ROCKS

AUXILIARY DESCRIPTORS: CALIFORNIA

DESCRIPTOR CODES: 524600; 525400; 547500; 416500; 549000

AUXILIARY DESCRIPTOR CODES: 796300

0657812 GA572000840

Nephrite jade in Mariposa county, California

EVANS, JR

Spec Publ Calif Div Mines Geol (Sacramento) 49 P41-53
1976 JRNL CODE: SPCDMI

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE; TREMOLITE-FERROACTINOLITE
SERIES; LEGISLATIVE EXPLORATION MANAGEMENT; MINERAL
CLASSIFICATION & NOMENCLATURE; SEMI-PRECIOUS STONES; CHEMISTRY
OF MINERALS

AUXILIARY DESCRIPTORS: CALIFORNIA

DESCRIPTOR CODES: 524600; 525400; 351300; 512000; 483000;
510300

AUXILIARY DESCRIPTOR CODES: 796300

0639861 GA554000525

Australia major supplier of jade soon

Asia Min (Manila) 13/4 P28 1980 JRNL CODE: AMINMI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: AUSTRALIA

DESCRIPTOR CODES: 483000

AUXILIARY DESCRIPTOR CODES: 573000

0621023 GA536000448

Australia likely to be major supplier of jade

STONE, J

Gems Gemol (Los Angeles) 16/9 P331 1980 JRNL CODE:
GGEMOI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: AUSTRALIA

DESCRIPTOR CODES: 483000; 524600

AUXILIARY DESCRIPTOR CODES: 573000

0619984 GA535000560

Nephrite occurrences in the granite mountains region of
Wyoming

MADISON, ME

Lapidary J (San Diego) 33/9 P2008-2013 1979 JRNL CODE:

LJOURI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; GRANITES &
ADAMELLITES; CHEMISTRY OF MINERALS; PHYSICAL PROPERTIES OF
MINERALS

AUXILIARY DESCRIPTORS: WYOMING

DESCRIPTOR CODES: 525400; 543100; 510300; 510400

AUXILIARY DESCRIPTOR CODES: 793500

0606360 GA521000605

Termination of planar defects in the amphibole mineral
nephrite observed by high-resolution electron microscopy

MALLINSON, LG

Acta Crystallogr Sect A Cryst Phys Diffr (Copenha 36/3
P378-38 1980 JRNL CODE: ACACPI

LANGUAGE: ENGLISH

DESCRIPTORS: CRYSTAL IRREGULARITIES; TREMOLITE-FERROACTINO-
LITE SERIES; ELECTRON MICROSCOPY

DESCRIPTOR CODES: 515400; 525400; 822500

0603399 GA518000583

Chemical formula and condition of formation of the Taiwan
nephrite

CHEN, CH

Ti-Chih (Taipei) 2 P59-68 1979 JRNL CODE: TCHIHI

LANGUAGE: CHINESE

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; CHEMISTRY OF
MINERALS

AUXILIARY DESCRIPTORS: TAIWAN

DESCRIPTOR CODES: 525400; 510300

AUXILIARY DESCRIPTOR CODES: 545000

0600845 GA516000057

Geology in China plus jade in China

PEARL, RM

Earth Sci (Colorado Springs) 32/1 P10-11 1979 JRNL
CODE: ESCIEI

LANGUAGE: ENGLISH

DESCRIPTORS: REGIONAL GEOLOGY; SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: CHINA

DESCRIPTOR CODES: 200000; 483000

AUXILIARY DESCRIPTOR CODES: 501000

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

0597022 GA511000427

Variety spices a trip to the Jade Cove area (San Francisco Bay)

Lapidary J (San Diego) 34/5 P918-924 1980 JRNL CODE:

LJOURI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: CALIFORNIA; COASTAL AREAS

DESCRIPTOR CODES: 483000

AUXILIARY DESCRIPTOR CODES: 796300; 006000

0586708 GA501000568

The internal structure of nephrite experimental and computational evidence for the coexistence of multiple-chain silicates within an amphibole host

MALLINSON, LG; JEFFERSON, DA; THOMAS, JM; HUTCHISON, JL

Philos Trans R Soc Lond Ser A Math Phys Sci (Lond 295/1416P537-552 1980 JRNL CODE: PTRSAI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; CRYSTALLOGRAPHY; CRYSTAL IRREGULARITIES; SCANNING ELECTRON MICROSCOPY; COMPUTER METHODS

DESCRIPTOR CODES: 525400; 515000; 515400; 822600; 830000

0586450 GA501000310

Advances in jade mining in Australia

Retail Jeweller (London) 18/434 P3 1980 JRNL CODE:

RJWEI

LANGUAGE: ENGLISH

DESCRIPTORS: PRODUCTION MANAGEMENT; SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: AUSTRALIA

DESCRIPTOR CODES: 353000; 483000

AUXILIARY DESCRIPTOR CODES: 573000

0581423 GA496000691

Nephrite occurrences in the Granite Mountains region of Wyoming (reprinted from Annu Field Conf Guideb, Wyoming Geol Assoc (30/1978) p393-397)

MADISON, ME

Lapidary J (San Diego) 33/9 P2008-2013 1979 JRNL CODE:

LJOURI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: WYOMING

DESCRIPTOR CODES: 525400; 483000

AUXILIARY DESCRIPTOR CODES: 793500

0581320 GA496000588

South Australians feel far from jaded now (South Australia may become major jade supplier, reserves upgraded at Cowell, Eyre Peninsula)

Miner Newspaper (Sydney) 3/1 P1 1980 JRNL CODE: MNEWPI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; RESERVE AND RESOURCE ESTIMATION

AUXILIARY DESCRIPTORS: SOUTH AUSTRALIA

DESCRIPTOR CODES: 483000; 352000

AUXILIARY DESCRIPTOR CODES: 583000

0580996 GA496000263

Possibilities of geochemical prospecting of nephrite deposits in Lower Silesia

LIS, J; SYLWESTRZAK, H

Przegi Geol (Warsaw) 27/10 P547-548 1979 JRNL CODE:

PGWARI

LANGUAGE: POLISH

DESCRIPTORS: EXPLORATION GEOCHEMISTRY

AUXILIARY DESCRIPTORS: SILESIA

DESCRIPTOR CODES: 336000

AUXILIARY DESCRIPTOR CODES: 331000

0567207 GA480002120

ABC of lapidary gemstones: moonstone and nephrite

TASKER, P

Gem Craft (Hemel Hempstead) 7/11 P640 1979 JRNL CODE:

GCRAFI

LANGUAGE: ENGLISH

DESCRIPTORS: ALKALI FELDSPARS; SPODUMENE & JADEITE

DESCRIPTOR CODES: 528100; 524600

0555076 GA471000396

Jade in Canada

LEAMING, SF

Pap Geol Surv Can (Ottawa) 78/19 59P 1978 JRNL CODE:

PGSCAI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; SPODUMENE & JADEITE; METAMORPHIC ROCKS

AUXILIARY DESCRIPTORS: CANADA

DESCRIPTOR CODES: 483000; 524600; 549000

AUXILIARY DESCRIPTOR CODES: 710000

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

0553843 GA470000440

Jade and gemstones from southern New Zealand

BECK, RJ

Lapidary J (San Diego) 33/1 P186-190 1979 JRNL CODE:

LJOURI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL COLLECTING

AUXILIARY DESCRIPTORS: SOUTH ISLAND

DESCRIPTOR CODES: 483000; 310300

AUXILIARY DESCRIPTOR CODES: 594000

0552605 GA469000393

Jade and gemstones from southern New Zealand

BECK, RJ

Lapidary J (San Diego) 33/1 P186-190 1979 JRNL CODE:

LJOURI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL COLLECTING

AUXILIARY DESCRIPTORS: SOUTH ISLAND

DESCRIPTOR CODES: 483000; 310300

AUXILIARY DESCRIPTOR CODES: 594000

0545051 GA463000701

The colour of nephrite jade from Cowell (South Australia)

NICHOL, D

Q Geol Notes Geol Surv South Aust (Parkside) 53 P9-12

1975 JRNL CODE: OGNLSN

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; OPTICAL
PROPERTIES OF MINERALS

DESCRIPTOR CODES: 525400; 510500

0537744 GA453000632

The Kurtushibinsk nephrite deposit in west Sayan

SEKERIN, AP

Sov Geol Geophys (New York) 18/7 P42-48 1977 JRNL CODE:

SGGENI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; METASOMATISM
; CHEMISTRY OF MINERALS

AUXILIARY DESCRIPTORS: SAYAN RANGE

DESCRIPTOR CODES: 525400; 547500; 510300

AUXILIARY DESCRIPTOR CODES: 404500

0531676 GA448000706

A nephrite deposit in the Great Serpentine Belt of New
South Wales

HOCKLEY, JJ; BIRCH, WD; WÖRNER, HK

J Geol Soc Aust (Sydney) 1978 JRNL CODE: JGSAUI

25/5 P249-254

LANGUAGE: ENGLISH

DESCRIPTORS: AMPHIBOLITES & SERPENTINITES; SILICATE MINERAL
DEPOSITS; METAMORPHIC GEOCHEMISTRY; METAMORPHIC MINERAL
DEPOSITS

AUXILIARY DESCRIPTORS: NEW SOUTH WALES

DESCRIPTOR CODES: 549900; 470000; 667000; 417000

AUXILIARY DESCRIPTOR CODES: 584000

0522990 GA442000134

Diopside 'jade' from the Eel River, Mendocino County,
California

WOOD, MM; WEIDLICH, JE

Lapidary J (San Diego) 1978 JRNL CODE: LJOURI

32/7 P1532-1535

LANGUAGE: ENGLISH

DESCRIPTORS: MINERAL COLLECTING; DIOPSIDE-HEDENBERGITE
SERIES

AUXILIARY DESCRIPTORS: CALIFORNIA

DESCRIPTOR CODES: 310300; 524300

AUXILIARY DESCRIPTOR CODES: 796300

0517369 GA438000357

Opium dealers are switching to jade (mining in Burma)

Aust Gemmol (Sydney) 1978 JRNL CODE: AGEMMG

13/5 P153-154

LANGUAGE: ENGLISH

DESCRIPTORS: PRODUCTION MANAGEMENT; SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: BURMA

DESCRIPTOR CODES: 353000; 483000

AUXILIARY DESCRIPTOR CODES: 499000

0513300 GA435000097

From jasper to jade in Venezuela

MAXFIELD, P

Lapidary J (San Diego) 1978 JRNL CODE: LJOURI

32/4 P878-882

LANGUAGE: ENGLISH

DESCRIPTORS: MINERAL COLLECTING; SEMI-PRECIOUS STONES

AUXILIARY DESCRIPTORS: VENEZUELA

DESCRIPTOR CODES: 310300; 483000

AUXILIARY DESCRIPTOR CODES: 851000

0509724 GA432000624

Characterization of two samples of Taiwan's jade

FLAMINI, A; GRAZIANI, G; MARTINI, M

J Gemmol Proc Gemmol Assoc G B (London) 1978 JRNL CODE:

JGPGAI

16/3 P153-160

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; CHEMISTRY OF MINERALS;
TREMOLITE-FERROACTINOLITE SERIES

AUXILIARY DESCRIPTORS: TAIWAN

(cont. next page)

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

DESCRIPTOR CODES: 483000; 510300; 525400
AUXILIARY DESCRIPTOR CODES: 545000

0504282 GA428000189
Jade International announces new find (nephrite jade, Oregon)
Lapidary J (San Diego) 1978 JRNL CODE: LJOURI
32/2 P833
LANGUAGE: ENGLISH
DESCRIPTORS: MINERAL DISCOVERIES; SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: OREGON
DESCRIPTOR CODES: 333100; 483000
AUXILIARY DESCRIPTOR CODES: 796700

0498605 GA423000244
Nephrite jade, Cowell (SA)
Miner Ind Q (Parkside) 1976 JRNL CODE: MIQUAG
2 P3
LANGUAGE: ENGLISH
DESCRIPTORS: TECHNICAL PRODUCTION MANAGEMENT; SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: SOUTH AUSTRALIA
DESCRIPTOR CODES: 353100; 483000
AUXILIARY DESCRIPTOR CODES: 583000

0476329 GA390000890
Kurtushibinsk nephrite deposit in west Sayania
SEKERIN, AP
Geol Geofiz (Novosibirsk) 1977 JRNL CODE: GGEOFI
7 P57-64
LANGUAGE: RUSSIAN
DESCRIPTORS: SILICATE MINERAL DEPOSITS; METASOMATISM; AMPHIBOLITES & SERPENTINITES; GABBROS; PERIDOTITES.
AUXILIARY DESCRIPTORS: SAYAN RANGE
DESCRIPTOR CODES: 470000; 547500; 549900; 543800; 543900
AUXILIARY DESCRIPTOR CODES: 404500

0458716 GA377000109
Bagging those elusive botrys (Jade)
PHILLIPS, LD
Lapidary J (San Diego) 1977 JRNL CODE: LJOURI
31/3 P734-749
LANGUAGE: ENGLISH
DESCRIPTORS: MINERAL COLLECTING; OTHER SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: CALIFORNIA; COASTAL AREAS
DESCRIPTOR CODES: 310300; 483900
AUXILIARY DESCRIPTOR CODES: 796300; 006000

0454980 GA374000079
Jade beyond the Arctic Circle
PROCTOR, WO
Lapidary J (San Diego) 1977 JRNL CODE: LJOURI
31/2 P598-605
LANGUAGE: ENGLISH
DESCRIPTORS: MINERAL COLLECTING; GEMSTONES; SPODUMENE & JADEITE
AUXILIARY DESCRIPTORS: NORTH AMERICAN ARCTIC
DESCRIPTOR CODES: 310300; 481000; 524600
AUXILIARY DESCRIPTOR CODES: 704000

0451015 GA366004256
Lone Ranch Jade (Oregon)
HEFLIN, E
Rock Gem (Encino) 1977 JRNL CODE: RGEMEO
7/5 P16
LANGUAGE: ENGLISH
DESCRIPTORS: MINERAL COLLECTING; SPODUMENE & JADEITE
AUXILIARY DESCRIPTORS: OREGON
DESCRIPTOR CODES: 310300; 524600
AUXILIARY DESCRIPTOR CODES: 796700

0422101 GA336002003
Prospecting and exploration of nephrite deposits
ZAMALETDINOV, RS
Razved Okhr Nedr (Moscow) 1976 JRNL CODE: RONEDI
7 P18-24
LANGUAGE: RUSSIAN
DESCRIPTORS: EXPLORATION FOR NON-METALS; ORNAMENTAL STONE; TREMOLITE-FERROACTINOLITE SERIES
DESCRIPTOR CODES: 333700; 451700; 525400

0415640 GA330001385
The age of nephrite occurrences in the Great Serpentine Belt of New South Wales
LANPHERE, MA; HOCKLEY, JJ
J Geol Soc Aust (Sydney) 1976 JRNL CODE: JGSAUI
23/1 P15-17
LANGUAGE: ENGLISH
DESCRIPTORS: AMPHIBOLITES & SERPENTINITES; POTASSIUM-ARGON DATING; PLUTONISM
AUXILIARY DESCRIPTORS: NEW SOUTH WALES; PERMIAN
DESCRIPTOR CODES: 549900; 756300; 541000
AUXILIARY DESCRIPTOR CODES: 584000; 050000

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

0414739 GA330000483

Ancient Maya jade deposits rediscovered (Guatemala)

SWEZEY, WR

Lapidary J (San Diego) 1976 JRNL CODE: LJOURI
30/3 P742-746

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: GUATEMALA

DESCRIPTOR CODES: 524600

AUXILIARY DESCRIPTOR CODES: 801000

0414738 GA330000482

Nephrite in Washington

REAM, L

Lapidary J (San Diego) 1975 JRNL CODE: LJOURI
29/9 P1748-1757

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: WASHINGTON

DESCRIPTOR CODES: 524600

AUXILIARY DESCRIPTOR CODES: 797300

0407060 GA320002833

Jade - China's contribution to the fine arts

ALEXANDER, AE

Gems Gemol (Los Angeles) 1976 JRNL CODE: GGEMOI
15/5 P145-152

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: CHINA

DESCRIPTOR CODES: 483000; 524600

AUXILIARY DESCRIPTOR CODES: 501000

0404844 GA320000611

Jade in Stone-age Siberia

PEARL, RM

Earth Sci (Colorado Springs) 1976 JRNL CODE: ESCIEI
28/1 P44

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: CENTRAL SIBERIAN PLATEAU

DESCRIPTOR CODES: 524600

AUXILIARY DESCRIPTOR CODES: 402000

0401195 GA316002450

Nephrite jade deposits Cowell, South Australia

NICHOL, D

Aust Gemmol (Sydney) 1975 JRNL CODE: AGEMMG
12/7 P220-221

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE; MINERAL DISCOVERIES

AUXILIARY DESCRIPTORS: SOUTH AUSTRALIA

DESCRIPTOR CODES: 524600; 333100

AUXILIARY DESCRIPTOR CODES: 583000

0397973 GA312004040

Where the white nephrite is

RODMAN, DG

Lapidary J (San Diego) 1976 JRNL CODE: LJOURI
30/2 P644-645

LANGUAGE: ENGLISH

DESCRIPTORS: GEMSTONES

DESCRIPTOR CODES: 481000

0392409 GA307004681

Nephrite jade occurrences, British Columbia and Yukon Territory

LEAMING, SF

Pap Geol Surv Can (Ottawa) 1976 JRNL CODE: PGSCAI
76/1A P127-129

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES

AUXILIARY DESCRIPTORS: BRITISH COLUMBIA; YUKON

DESCRIPTOR CODES: 525400

AUXILIARY DESCRIPTOR CODES: 743700; 743300

0386377 GA302004197

Unusual jade-like quartz from Georgia

BOATWRIGHT, C

Rocks Miner (New York) 1976 JRNL CODE: RMINPI
51/1 P20-21

LANGUAGE: ENGLISH

DESCRIPTORS: MINERAL COLLECTING; SILICA MINERALS

AUXILIARY DESCRIPTORS: GEORGIA

DESCRIPTOR CODES: 310300; 528300

AUXILIARY DESCRIPTOR CODES: 779000

0384968 GA302002698

Nephrite deposit from Jordanow (Lower Silesia)

HEFLIK, W

Przegl Geol r arsaw) 1975 JRNL CODE: PGWARI
23/11 P521-525

LANGUAGE: POLISH

DESCRIPTORS: SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: SILESIA

DESCRIPTOR CODES: 524600

AUXILIARY DESCRIPTOR CODES: 331000

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

0372728 GA295000930

Where is the white nephrite

RODMAN, DG

Lapidary J (San Diego) 1975 JRNL CODE: LJOUR
29/3 P680-681

LANGUAGE: ENGLISH

DESCRIPTORS: SINGLE CHAIN INOSILICATES

DESCRIPTOR CODES: 524000

0361199 GA287000606

The magic of jadeLapidary J (San Diego) 1975 JRNL CODE: LJOUR
29/5 P990-992

LANGUAGE: ENGLISH

DESCRIPTORS: OTHER SEMI-PRECIOUS STONES; SPODUMENE &
JADEITE; MINERAL COLLECTING

DESCRIPTOR CODES: 483900; 524600; 310300

0343485 GA261002528

Pilbara Jade

HUDSON, DR

Aust Gemmol (Sydney) 1974 JRNL CODE: AGEMM
12/4 P127-133

LANGUAGE: ENGLISH

DESCRIPTORS: CHLORITE GROUP

AUXILIARY DESCRIPTORS: WESTERN AUSTRALIA

DESCRIPTOR CODES: 526700

AUXILIARY DESCRIPTOR CODES: 582000

0343446 GA261002489

The great minerals, 3 Jade

LAMBERT, R

Gems (London) 1975 JRNL CODE: GEMSL
7/3 P18-21

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE; MINERAL COLLECTING

DESCRIPTOR CODES: 524600; 310300

0330514 GA249002683

The botryoidal jade of California

HAMILTON, EP

Gems (London) 1974 JRNL CODE: GEMSL
6/8 P22-23

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: CALIFORNIA

DESCRIPTOR CODES: 524600

AUXILIARY DESCRIPTOR CODES: 796300

0327755 GA245004366

Hunt for the green (jade, that is)

STONER, A

Rocks Miner (Peekskill, NY) 1974 JRNL CODE: RMINP
49/10 P640

LANGUAGE: ENGLISH

DESCRIPTORS: MINERAL COLLECTING; OTHER SEMI-PRECIOUS STONES
; SPODUMENE & JADEITE

DESCRIPTOR CODES: 310300; 483900; 524600

0323956 GA241003256

The Ulan-Khodinskoye nephrite deposit

ZAMALETDINOV, RS; SUTURIN, AN

Sov Geol (Moscow) 1974 JRNL CODE: SGEOM
9 P90-98

LANGUAGE: ENGLISH

DESCRIPTORS: SILICATE MINERAL DEPOSITS

AUXILIARY DESCRIPTORS: NORTHERN EUROPEAN USSR

DESCRIPTOR CODES: 470000

AUXILIARY DESCRIPTOR CODES: 391000

0323867 GA241003167

Man's search for the gem, part 3 Early Chinese jade

OGDONOGHUE, M

Gems (London) 1974 JRNL CODE: GEMSL
6/4 P29-31

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

AUXILIARY DESCRIPTORS: CHINA

DESCRIPTOR CODES: 524600

AUXILIARY DESCRIPTOR CODES: 501000

0322616 GA241001894

The effect of gamma rays on tourmaline, greenish-yellow quartz, pearls, kunzite, and jade

NASSAU, K

Lapidary J (San Diego) 1974 JRNL CODE: LJOUR
28/7 P1064-1074

LANGUAGE: ENGLISH

DESCRIPTORS: BERYL GROUP; SILICA MINERALS; SPODUMENE &
JADEITE; PHYSICAL PROPERTIES OF MINERALS

DESCRIPTOR CODES: 523100; 528300; 524600; 510400

0320981 GA241000228

Lavender jade the optical spectrum of Fe3 plus and Fe2 plus to Fe3plus intervalence charge transfer in jadeite from Burma

ROSSMAN, GR

Z Geol Wiss (Berlin) 1973 JRNL CODE: ZGWIS
1/11 P868-870

(cont. next page)

DIALOG File 58: GEOARCHIVE - 74-84/JUN (Copr. GEOSYSTEMS)

LANGUAGE: ENGLISH
DESCRIPTORS: SPODUMENE & JADEITE; ATOMIC STRUCTURE OF
MINERALS

AUXILIARY DESCRIPTORS: BURMA
DESCRIPTOR CODES: 524600; 510200
AUXILIARY DESCRIPTOR CODES: 499000

0315882 GA233004497

Washington gem jade

REAM, LR

Lapidary J (San Diego) 1974 JRNL CODE: LJOUR
28/4 P708-711

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE; ORNAMENTAL STONE

AUXILIARY DESCRIPTORS: WASHINGTON

DESCRIPTOR CODES: 524600; 451700

AUXILIARY DESCRIPTOR CODES: 797300

0314893 GA233003469

Jade

Rocks Miner (Peekskill) 1974 JRNL CODE: RMINP
49/1 P21-22

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

DESCRIPTOR CODES: 524600

0314865 GA233003441

The romance of jade

Rocks Miner (Peekskill) 1973 JRNL CODE: RMINP
48/6 P380-382

LANGUAGE: ENGLISH

DESCRIPTORS: SPODUMENE & JADEITE

DESCRIPTOR CODES: 524600

0311869 GA233000349

Tremolitic nephrite as a product of ore forming
metasomatism in the dolomite of Kansaj ore district, Kuramin
Range

PROTOD6YAKONO/ ZM; MANSUROV, M

Uzb Geol Zh (Tashkent) 1973 JRNL CODE: UGZAN
73/1 P20-22

LANGUAGE: RUSSIAN

DESCRIPTORS: IRON-MAGNESIA-SILICATE METASOMATISM; TREMOLIT-
E-FERROACTINOLITE SERIES

AUXILIARY DESCRIPTORS: UZBEKISTAN

DESCRIPTOR CODES: 547700; 525400

AUXILIARY DESCRIPTOR CODES: 431000

PRINTS SUMMARY

User:U0004881. File(s):6

PAGE: 17

File(s) searched:

File 6:NTIS - 64-84/ISS24 (Copr. NTIS)

Sets selected:

Set	Items	Description
1	38	JADE OR NEPHRITE OR JADEITE

Prints requested:

Date	Time	Description
23Nov84	01:40:07	PRINT 1/5/1-38

A **DIALOG*** SEARCH FROM THE NTIS DATABASE

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Date: _____

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SAMPLE RECORD

The positions of the key fields are shown in the following sample record.

RN 040466 UCRL-84559
 TI Interaction of Moderately Dense Particle Concentra-
 tions in Turbulent Flow
 AU Buckingham, A. C. ; Siekhaus, W. J.
 CS Lawrence Livermore National Lab., CA.
 CS Corp. Source Codes: 068147000 9511304
 SP SPONSOR: Department of Energy, Washington, DC.
 PY 1981 16p
 CP Country of Publication: United States
 NT 19. Aerospace Sciences meeting, St. Louis, MO, USA
 12 Jan 1981
 JA Journal Announcement: GRAI8113; NSAO600
 NTIS prices: PC A02/MF A01
 DT Document Type: Conference proceedings
 LA Languages: English
 RN Report No.: CONF-810106-3
 CN Contract No.: W-7405-ENG-48
 AB Numerical simulations are presented which describe fluctuating gas motions and effects of resulting forces on gas-borne particulates. The effects include the back influence of the particulates on the turbulent gas field that convects them. Force, energy and motion coupling between particles and gas is moderately influential consistent with the modest levels of particle-to-gas mass loading (the order of 0.01 to 0.1), associated with use of erosion suppressing particulate additives. Back influence consists of inertial and volumetric effects as well as modeled acoustical coupling, where appropriate. Preliminary results of complementary wind tunnel experiments, measuring influences of particle loading on turbulent structures, are also presented. (ERA citation 06:009828)

DE Descriptors: *Aerosols; *Turbulent flow; Convection; Dusts; Mathematical models; Numerical solution; Simulation; Theoretical data
 ID Identifiers: ERDA/G40410; NTISDE
 SH Section Headings: 20D (Physics--Fluid Mechanics); 46B (Physics--Fluid Mechanics)
 (Copyright by National Technical Information Service, 1984)

Key to Data Fields

AB Abstract	LA Language
AU Author	NT Note
CN Contract Number	PY Publication Year
CP Country of Publication	RN Report Number
CS Corporate Source	RN NTIS Accession Number
DE Descriptor	RN CAS Registry Number
DT Document Type	SH Section Heading Code
ID Identifier	SP Sponsoring Agency
JA Journal Announcement	TI Title

Data present in record depends on output format requested and type of record.

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

1081092 DE84750628

Diogene Pictorial Drift Chamber

Gosset, J.

CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France).

Corp. Source Codes: 056220000; 1396000

Report No.: CEA-CONF-6867; CONF-8306139-2

Jun 83 10p

Time projection chamber workshop, Vancouver, Canada, 23 Jun 1983.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8423 ; NSA0900

Country of Publication: France

A pictorial drift chamber, called DIOGENE, has been installed at Saturne in order to study central collisions of high energy heavy ions. It has been adapted from the JADE internal detector, with two major differences to be taken into account. First, the center-of-mass of these collisions is not identical to the laboratory reference frame. Second, the energy loss and the momentum ranges of the particles to be detected are different from the ones in JADE. It was also tried to keep the cost as small as possible, hence the choice of minimum size and minimum number of sensitive wires. Moreover the wire planes are shifted from the beam axis: this trick helps very much to quickly reject the bad tracks caused by the ambiguity of measuring drift distances (positive or negative) through times (always positive). (ERA citation 09:029119)

Descriptors: *Drift Chambers; Angular Momentum; Center-of-Mass System; Cost; Design; Energy Losses; Four-Pi Counting; GeV Range 01-10; Heavy Ion Reactions; Performance; Saturne II; Three-Dimensional Calculations

Identifiers: *Foreign technology; ERDA/440101; NTISDEE
Section Headings: 180 (Nuclear Science and Technology--Nuclear Instrumentation); 77E (Nuclear Science and Technology--Nuclear Instrumentation)

1067847 DE84750150

Precise Measurement of Total Cross Sections for the Process $(E_{sup+})(E_{sup-})$ Yields Multihadrons in the CM Energy Range Between 12.0 and 36.4 GeV

Dietrich, G. ; Eisen, E. ; Heinzelmann, G. ; Kado, H. ; Meier, K.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-83-050

Jun 83 22p

U.S. Sales Only.

Languages: English

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8418 ; NSA0900

Country of Publication: Germany, Federal Republic of

The total cross section for the process $e^+e^- \rightarrow$ hadrons has been measured in the cm energy range between 12.0

and 36.4 GeV using the JADE detector with a typical systematic error of $\pm 3\%$. The ratio $R(\sigma(e^+e^- \rightarrow \text{hadrons})/\sigma_{\text{sub}}(\text{pt}))$ is found to be constant over this range with an average value of 3.97 ± 0.05 (statistical and point-to-point systematic error) ± 0.10 (normalization error). The data were compared with the standard electro-weak interaction model including QCD corrections. (ERA citation 09:017594)

Descriptors: *Electron-Positron Interactions; *Hadrons; Annihilation; Branching Ratio; Experimental Data; GeV Range 10-100; Multiple Production; Quantum Chromodynamics; *Total Cross Sections

Identifiers: *Foreign technology; ERDA/645101; Cross sections; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1065555 DE84750250

Summary of the Experimental Discussion Session

Spitzer, H.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-83-059; CONF-8304110-5

Jul 83 46p

International workshop on photon-photon collisions, Aachen, F.R. Germany, 13 Apr 1983.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A03/MF A01 Journal Announcement: GRAI8417 ; NSA0900

Country of Publication: Germany, Federal Republic of

A total of 26 papers have been contributed to the experimental discussion session. I will discuss some of the tools needed for 2 gamma experimentation and then point to highlights and regions of particular progress in the last two years. The process $\gamma\gamma \rightarrow e^+e^-$ has been measured for the first time as well as the cross section for $\gamma\gamma \rightarrow \rho^+\rho^-$. The latter rules out a resonance interpretation for $\sigma(\gamma\gamma \rightarrow \rho^+\rho^-)$. Progress has been made in understanding the f_2 shape by an interference mechanism. Previous determinations of $\sigma_{\text{sub}}(\text{tot})$ ($\gamma\gamma \rightarrow \text{hadrons}$) have suffered from limited detector acceptance. The ongoing analyses of PLUTO, JADE and PEP4 + PEP9 data look promising. A separation of $\sigma_{\text{sub}}(\text{TT})$ and $\sigma_{\text{sub}}(\text{TL})$ seems possible. The first measurement of the Q^2 dependence of high $p_{\text{sub}}(\text{T})$ jet production was presented. Both high $p_{\text{sub}}(\text{T})$ and high Q^2 help in extracting the Born process $\gamma\gamma \rightarrow q\bar{q}$ by suppressing competing processes. Progress has been made in measuring the photon structure function F_2^{γ} . The data available have increased from the original 110 PLUTO events in 1981 to well above 2000 events from five experiments. The Q^2 limit accessible has grown from 15 GeV 2 to about 200 GeV 2 . A proper unfolding method which converts the measured event distribution into a structure function F_2

(cont. next page)

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

(x, 0 exp 2) has been presented. (ERA citation 09:019280)

Descriptors: *Photon-Photon Interactions; A2-1310 Resonances;
; Antiprotons; Elastic Scattering; Eta Mesons; Eta-958
Resonances; Exclusive Interactions; F-1260 Resonances; F-1514
Resonances; GeV Range 01-10; Inclusive Interactions; Integral
Cross Sections; Jet Model; MeV Range 100-1000; Multiple
Production; Muons Minus; Muons Plus; Pair Production; Photons;
Photoproduction; Pions Minus; Pions Plus; Protons; Quarks;
Radiative Decay; Reviews; Rho-765 Resonances; Structure
Functions; Total Cross Sections; Transverse Momentum

Identifiers: *Foreign technology; ERDA/645101; NTISDEE
Section Headings: 20H (Physics--Particle Physics); 46GE
(Physics--General)

1060351 DE84700571

FAMP: An Example of Multiprocessing in High Energy Physics
Hertzberger, L. O.
Nationaal Inst. voor Kernfysica en Hoge-Energiefysica,
Amsterdam (Netherlands). Sektie H.

Corp. Source Codes: 074477003; 4399930
Report No.: NIKHEF-H-83-6; CONF-830353-4
Apr 83 13p

Meeting on the impact of specialized processors in
elementary particle physics. Padua, Italy, 23 Mar 1983.

U.S. Sales Only.
Languages: English Document Type: Conference proceeding
NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8415
Country of Publication: Netherlands

Possible applications of multi microprocessor systems in the
different areas of experimental High Energy Physics are
considered. It is shown that these systems, of which the Fast
Amsterdam Multi Processor (FAMP) system is an example, are
potentially very powerful in on-line and in off-line
applications. It is discussed how the potential advantages
have been exploited in the FAMP system by a careful choice of
hardware and software. An overview is given of the use of the
FAMP system for second-stage triggering, on-line event
filtering and monitoring purposes in the NA11, UA1 and JADE
experiments and of other possible applications. (Atomindex
citation 14:803232)

Descriptors: *Microprocessors; *Particle Properties;
Accuracy; Data Processing; High Energy Physics; Sensitivity;
Trigger Circuits; Uses

Identifiers: *Foreign technology; ERDA/440104; ERDA/990200;
NTISINIS

Section Headings: 20H (Physics--Particle Physics); 18D
(Nuclear Science and Technology--Nuclear Instrumentation); 9B
(Electronics and Electrical Engineering--Computers); 46GE
(Physics--General); 77E (Nuclear Science and
Technology--Nuclear Instrumentation)

1057425 DE83704164

DIOGENE: A Small-Scale Pictorial Drift Chamber at Saturne
Poitou, J.

CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette
(France).

Corp. Source Codes: 056220000; 1396000

Report No.: CEA-CONF-6640; CONF-830223-8

Feb 83 12p

Wire chamber conference, Vienna, Austria, 15 Feb 1983.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding
NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8414
Country of Publication: France

A pictorial drift chamber, called DIOGENE, has been
installed at Saturne in order to study central collisions of
high energy heavy ions. It has been adapted from the JADE
internal detector, with two major differences to be taken into
account. First, the center-of-mass of these collisions is not
identical to the laboratory reference frame. Second, the
energy loss and the momentum ranges of the particles to be
detected are different from the ones in JADE. It was also
tried to keep the cost as small as possible, hence the choice
of minimum size and minimum number of sensitive wires.
Moreover the wire planes are shifted from the beam axis: this
trick helps very much to quickly reject the bad tracks caused
by the ambiguity of measuring drift distances (positive or
negative) through times (always positive). (Atomindex citation
14:776989)

Descriptors: *Drift Chambers; *Ion Detection; Heavy Ion
Reactions; Heavy Ions; Performance Testing; Specifications

Identifiers: *Foreign technology; ERDA/440104; NTISINIS
Section Headings: 18D (Nuclear Science and
Technology--Nuclear Instrumentation); 77E (Nuclear Science and
Technology--Nuclear Instrumentation)

1042012 DE83751353

Recent Results from Jade on Electroweak Interactions

Naroska, B.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-83-039; CONF-830231-6

Jun 83 17p

Europhysics study conference on electroweak effects at high
energies, Erice, Italy, 1 Feb 1983.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8409
; NSA0900

Country of Publication: Germany, Federal Republic of

The Jade collaboration has performed measurements at Petra
at an average center-of-mass (cms) energy of \sqrt{s} approx. = 35 GeV
in order to test Quantum Electrodynamics (QED) and electroweak
(cont. next page)

DIALOG File 6: NTIS - 84-84/ISS24 (Copr. NTIS)

theories. QED tests are still possible because the influence of the neutral weak current is negligible in many places, e.g. in $e^+e^- \rightarrow \gamma\gamma$, or in the total cross sections for $e^+e^- \rightarrow e^+e^- \gamma$, and $\tau^+\tau^- \rightarrow \tau^+\tau^- \gamma$. On the other hand the interference of the electromagnetic and the weak amplitudes leads to an asymmetry in the angular distributions of $\mu^+\mu^-$ and $\tau^+\tau^-$, which was established for the first time at Petra. The measurements can be compared to predictions of electroweak theories, in particular the 'standard model' of Glashow, Salam, and Weinberg, which has successfully described neutral current phenomena in neutrino scattering and polarized e-d scattering. The tests at Petra were performed at a Q^2 much higher than previously available. (ERA citation 09:003621)

Descriptors: *Electron-Positron Interactions; Angular Distribution; Annihilation; Asymmetry; Bhabha Scattering; Differential Cross Sections; Effective Mass; Electromagnetic Interactions; Electrons; Experimental Data; GeV Range 10-100; Inelastic Scattering; Interference; Mass Spectra; Muons Minus; Muons Plus; Neutral-Current Interactions; Pair Production; Photons; Positrons; Quantum Electrodynamics; Tau Particles; Weak Interactions; Weinberg Lepton Model

Identifiers: *Foreign technology; ERDA/645101; ERDA/645102; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1034359 DE83751029

Recent Results in Two Photon Physics from JADE

Nozaki, T.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-83-011; CONF-821196-1

Mar 83 10p

Gamma-gamma seminar, Montpellier, France, 1 Nov 1982. Talk given at Gamma-Gamma Seminar at the University of Science and Technique of Languedoc, Montpellier, (France), Nov 1982.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8406

NSA0800

Country of Publication: Germany, Federal Republic of

Two topics in two photon physics from JADE are reported: The measurement of the photon structure function F_2 and the analysis of single A sub 2 and f production in two photon reactions. The photon structure function F_2 was measured at an average Q^2 of 23 GeV² and compared with the predictions of leading and higher order QCD as well as of the quark parton model. The QCD scale parameter λ was determined by these comparisons. The analysis of the processes $e^+e^- \rightarrow e^+e^- \gamma$, $e^+e^- \rightarrow e^+e^- \gamma$, A sub 2 (A sub 2 $\rightarrow \rho^0 \pi^0$) π^0 sup(+), ρ^0 sup(+), π^0 sup(+), π^0 sup(+), π^0 sup(0) and $e^+e^- \rightarrow e^+e^- \gamma$ ($f \rightarrow \pi^0 \pi^0$) is presented. Preliminary values of $G_{\text{AMMAsub}}(A_2 \text{ gamma gamma})$ and $G_{\text{AMMAsub}}(f \text{ gamma gamma})$ are given. (ERA citation

08:056584)

Descriptors: *Photon-Photon Interactions; Reviews; A2-1310 Resonances; Electron-Positron Interactions; Electrons; Electroproduction; F-1260 Resonances; Particle Widths; Photoproduction; Pions Minus; Pions Neutral; Pions Plus; Positrons; Quantum Chromodynamics; Radiative Decay; Rho-765 Resonances; Scaling Laws; Structure Functions

Identifiers: *Foreign technology; ERDA/645101; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1034358 DE83751028

Large Polygon Drift Chamber for the JADE Experiment at PETRA

Clarke, D.; Hedgecock, C. R.; Marshall, R.; Dietrich, G.; Steffen, P.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-83-014; CONF-830223-10

Mar 83 5p

Wire chamber conference, Vienna, Austria, 15 Feb 1983.

Presented by G. Dietrich at the Wire Chamber Conference, Vienna (Austria) 1983.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8406

NSA0800

Country of Publication: Germany, Federal Republic of.

A large cylindrical shell drift chamber is described. The chamber is 2.4 m long and 1.75 m diameter with a shell thickness of 45 mm. The sense wires are strung in the form of a polygon over rigid supports. This allows a measurement of the z-coordinate in the direction of the cylinder axis with an accuracy of approximately 250 μ . Results of tests on a representative prototype are presented. (ERA citation 08:056274)

Descriptors: *PETRA Storage Ring; Accuracy; Cylindrical Configuration; Drift Chambers; Position Sensitive Detectors; Spatial Resolution

Identifiers: *Foreign technology; ERDA/440104; NTISDEE

Section Headings: 18D (Nuclear Science and Technology--Nuclear Instrumentation); 77E (Nuclear Science and Technology--Nuclear Instrumentation)

1023498 DE83016397

Jet Production and High p_T Phenomena in Photon-Photon Reactions

Wermes, N.

Stanford Linear Accelerator Center, CA.

Corp. Source Codes: 014489000; 5910000

Sponsor: Department of Energy, Washington, DC.

Report No.: SLAC-PUB-3121; CONF-8304110-3

May 83 21p

International workshop on photon-photon collisions, Aachen, (cont. next page)

JFfilm

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

F.R. Germany, 13 Apr 1983.

Portions are illegible in microfiche products. Original copy available until stock is exhausted.

Languages: English Document Type: Conference proceeding
NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8403
; NSA0800

Country of Publication: United States

Contract No.: ACO3-76SF00515

The status of experimental investigations of high p/sub T/ phenomena and jet production in photon-photon collisions is reviewed. Taking the challenging questions on hard scattering processes in gamma gamma reactions as a guide, the experimental approach to these questions is summarized. Results from the PETRA experiments CELLO, JADE, PLUTO, and TASSO are presented including preliminary results on the Q exp 2 -dependence of jet cross sections. Experimental limitations and background problems are discussed. 36 references. (ERA citation 08:052705)

Descriptors: *Photon-Photon Interactions; Jet Model; Transverse Momentum; PETRA Storage Ring; Propagator; Quarks; Particle Production; Tagged Photon Method

Identifiers: ERDA/645101; ERDA/645202; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1020799 DE83750903

Search for New Heavy Leptons at PETRA

Elsen, E. ; Heinzelmann, G. ; Kado, H. ; Petersen, A. ; Warming, P.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-83-002

Jan 83 10p

JADE Collaboration.

U.S. Sales Only.

Languages: English

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8402
; NSA0800

Country of Publication: Germany, Federal Republic of

Results are presented on a search for new heavy leptons, a sequential heavy lepton Lsup(+), and an electron-type neutral heavy lepton E exp 0, using the JADE detector at PETRA. No evidence for either of these particles was observed. A lower mass limit for the Lsup(+)- is determined to be 18.0 GeV/c exp 2 at 95% c.l. Lower mass limits for the E exp 0 are 24.5 GeV/c exp 2 and 22.5 GeV/c exp 2, in the case of universal V+A and V-A coupling at the W-e-E vertex, respectively. (ERA citation 08:044918)

Descriptors: *Electron-Positron Interactions; *Heavy Leptons ; GeV Range 10-100; Postulated Particles; Rest Mass; Limiting Values; Charged Particles; Neutral Particles; Annihilation; Pair Production; V-A Theory

Identifiers: *Foreign technology; ERDA/645101; ERDA/645102; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1020790 DE83750885

Weak Neutral Currents in E exp + E exp - Experiments

Boehm, A.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-82-084

Dec 82 54p

U.S. Sales Only.

Languages: English

NTIS Prices: PC A04/MF A01 Journal Announcement: GRAI8402
; NSA0800

Country of Publication: Germany, Federal Republic of

Results on weak neutral currents in e exp + e exp - reactions at PETRA and PEP are reviewed. A study of the leptonic reactions e exp + e exp - -> l exp + l exp - leads to the conclusion that the electron, muon and tau lepton interact as if pointlike with cross sections, which are in agreement with the standard electro-weak theory of Glashow, Salam and Weinberg. A very significant forward-backward asymmetry of the reaction e exp + e exp - -> mu exp + mu exp - is measured by three PETRA experiments JADE, MARK-J and TASSO. Their combined value is Asub(mu mu) = (-10.4 +/- 1.4)% in good agreement with the standard model which predicts -9.3%. PETRA experiments including CELLO also measure a significant asymmetry, Asub(tautau) = (-7.9 +/- 2.2)%, in the reaction e exp + e exp - -> tau exp + tau exp - in accord with the GSW model and e, mu, tau universality. A fit to the cross sections of ee -> ee and ee -> mu mu at s = 1200 GeV exp 2 gives sin exp 2 THETAsub(w) = 0.27 +/- 0.07 and tests the standard model at very high energies. Finally, first attempts have been made to extend these studies to hadronic reactions e exp + e exp - -> qq exp - with the aim of measuring the weak neutral current couplings of heavy quarks. (ERA citation 08:047758)

Descriptors: *Electron-Positron Interactions; *Weak Neutral Currents; GeV Range 10-100; Neutral-Current Interactions; Reviews; Annihilation; Pair Production; Asymmetry; Muons Plus; Muons Minus; Tau Particles; Electrons; Positrons; Weinberg Lepton Model; Mixing Ratio; Quarks; Hadrons; Coupling Constants; Bhabha Scattering

Identifiers: *Foreign technology; ERDA/645102; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1016392 DE83750657

Review of Some Recent PETRA Results

Branson, J. G.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-82-078

Nov 82 30p

Invited talks at 4. European symposium on Nanti N and Qanti Q interactions and at the 8. international workshop on weak (cont. next page)

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DIALOG File 6: NTIS - 84-82/ISS24 (Copr. NTIS)

Interactions and neutrinos.

U.S. Sales Only.

Languages: English

NTIS Prices: PC A03/MF A01 Journal Announcement: GRAI8401
NSA0800

Country of Publication: Germany. Federal Republic of

I report on some of the more important results from high energy electron positron collisions at PETRA. These results come from the data collected over the last three years by five experiments: CELLO, JADE, MARK-J, PLUTO and TASSO. Topics include measurements of the electroweak interactions of leptons and quarks and searches for the source of electroweak symmetry breaking. The purely leptonic interactions, Bhabha scattering, muon pair production and tau pair production have been studied in detail. Experiments at PETRA have observed weak neutral current effects by measuring the forward backward charge asymmetry in muon pair production to an accuracy of better than 2% at $q \exp 2$ of approximately 1200 GeV $\exp 2$. The data are interpreted in terms of $\sin \exp 2 \text{ THETASub}(w)$ in the standard model and $g_{\text{sub}}(A)$, $g_{\text{sub}}(v)$ and C in more general models of electroweak interactions. Using measurements of R , we make a more accurate determination of $\sin \exp 2 \text{ THETASub}(w)$ at high $q \exp 2$. Technipions, charged Higgs particles, and supersymmetric scalar particles have been searched for up to masses of 15 GeV. Quantum chromodynamics is found to be in excellent agreement with the distributions of three jet events and $\alpha_{\text{sub}}(g)$ is measured using second order perturbative QCD calculations. (ERA citation 08:042574)

Descriptors: *Electron-Positron Interactions; GeV Range 10-100; Reviews

Identifiers: *Foreign technology; ERDA/645101; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

1007060 AD-A131 177/8

Late Time Containment Research

(Technical rept.)

Duff, R.E.; Lie, K.; Barthel, J.R.; Rimer, N.; Proffer, W.J.

S-Cubed, La Jolla, CA.

Corp. Source Codes: 076234000; 396528

Sponsor: Defense Nuclear Agency, Washington, DC.; Shared Bibliographic Input.

Report No.: SSS-82-R-5396; DNA-TR-81-137; SBI-AD-E301 185

1 Jun 82 74p

Languages: English

NTIS Prices: PC A04/MF A01

Journal Announcement: GRAI8324

Country of Publication: United States

Contract No.: DNA001-81-C-0072; J24AAXY; X000

This summary of Late-Time Containment Research describes the various tasks undertaken during 1981. Cavity conditions were estimated for Red Hot as a function of time, and consideration of connecting tunnel conditions suggested that venting from the cavity was energetically rather minor. Diablo Hawk diagnostic data permitted the identification of the second LOS flow pulse as steam at a temperature near 3500 deg K. The LOS

flow in Miners Iron was found to have a pressure three times higher than on Diablo Hawk. LOS flow studies suggested that aerodynamic forces turn the helical insert into the flow and thereby intercept penetrating flow components. Particle velocity records from grout spheres tests were analyzed to show that the conventional material model for 2C4 grout is unacceptable. Probably strain rate effects, material damage and a relaxation time will be required to give agreement between calculations and the measurements. An algorithm was developed for use in the LANL KRAK code to improve calculations of crack propagation from a cylindrical borehole. This specified how pressure in the borehole should be treated. Several other tasks are discussed briefly. (Author)

Descriptors: *Nuclear Explosion testing; *Nuclear Explosions; Cavities; Containment(General); Residual Stress; Line of sight

Identifiers: Diablo Hawk shot; Mighty Epic shot; Misty Jade shot; Red Hot shot; Pipe; Jetting; KRAK code; NTISDODXA; NTISDODSD

Section Headings: 18C (Nuclear Science and Technology--Nuclear Explosions); 77D (Nuclear Science and Technology--Nuclear Explosions and Devices)

1005474 DE83750137

Results from PETRA

Hilger, E.

Bonn Univ. (Germany, F.R.). Physikalisches Inst.

Corp. Source Codes: 004261006; 0848000

Report No.: BONN-HE-82-16; CONF-8205116-4

Jul 82 31p

International conference on novel results in particle physics, Nashville, TN, USA, 24 May 1982.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A03/MF A01 Journal Announcement: GRAI8323
NSA0800

Country of Publication: Germany. Federal Republic of

A selection of most recent results obtained by the five experiments CELLO, JADE, MARK J, PLUTO, and TASSO at PETRA is presented. The many interesting new results include, for example, the observation of effects of $2s_{\text{up}}(nd)$ order QCD, details of inclusive hadron production, and the measurement of the forward-backward asymmetry in lepton pair production due to weak and electromagnetic interference. (ERA citation 08:024575)

Descriptors: *Electron-Positron Interactions; GeV Range 10-100; Reviews; Quantum Chromodynamics; Inclusive Interactions; Multiple Production; Pair Production; Asymmetry; Interference; Weinberg Lepton Model; Total Cross Sections; Jet Model; Pions Neutral; Pions Plus; Pions Minus; Differential Cross Sections; Annihilation; Higgs Bosons; Muons Plus; Muons Minus; Tau Particles

Identifiers: *Foreign technology; ERDA/645101; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (cont. next page)

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

(Physics--General)

1005376 DE83750004

Electroweak Interactions

Steffen, P.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-82-039; CONF-820371-6

Jun 82 10p

17. Rencontre de Moriond meeting, Les Arcs, Savoie, France.

14 Mar 1982.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8323

; NSA0800

Country of Publication: Germany, Federal Republic of

The recent work of the PETRA groups CELLO, JADE, MARK J and TASSO on studies of electroweak interactions is reviewed. The charge asymmetry in μ -pair production is established. It agrees with the prediction of the standard model of Glashow, Weinberg, and Salam. First results on the charge asymmetry in tau-pair production are presented. The data are interpreted in terms of values for $\sin^2 \theta_{\text{W}}$ in the standard theory and of the weak coupling constants $g_{\text{sub}}(v)$ and $g_{\text{sub}}(a)$. In addition a new upper limit on the beauty lifetime is discussed, and new data on the tau branching ratios and lifetime are given. (ERA citation 08:032696)

Descriptors: *Electron-Positron Interactions; Weinberg Lepton Model; GeV Range 10-100; Reviews

Identifiers: *Foreign technology; ERDA/645101; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

0997170 DESY-79/77

First Results from JADE

Bartel, W. ; Canzler, T. ; Cords, D. ; Dittmann, P. ; Eichler, R.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: CONF-790885-15

Nov 79 18p

International symposium on lepton and photon interactions at high energy, Batavia, IL, USA, 23 Aug 1979.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8321

Country of Publication: Germany, Federal Republic of

First results from the JADE experiment at the highest PETRA energies ($\sqrt{s} = 22$ to 31.6 GeV) are reported. QED is tested using the reactions $e^+e^- \rightarrow e^+e^-$ implies $e^+e^- \rightarrow e^+e^-$ and gamma gamma and found valid down to distances of 2×10^{-16} cm. Fits to the differential cross section for $e^+e^- \rightarrow e^+e^-$ implies $e^+e^- \rightarrow e^+e^-$ provide constraints on models of the weak-electromagnetic interaction. For the reaction $e^+e^- \rightarrow e^+e^-$ implies multihadrons an average R

value of 4.1 ± 0.3 is obtained in the above energy range, compatible with production of quarks with only the known flavors (u, d, s, c, b). Topological distributions of the hadrons are studied in search of derivations from narrow two-jet structure. No evidence is observed for spherical events, which would be expected from production of heavy particles bearing a new flavor. However, broadening of jets and an excess of planar events are observed at a rate which cannot be explained by statistical fluctuations in the two-jet mechanism. The planar events exhibit distinct three-jet structures in many cases. If gluon bremsstrahlung $e^+e^- \rightarrow e^+e^-$ implies $q \text{ anti } q g$ is included, detailed agreements are obtained between the predictions and data. This agreement strongly suggests gluon bremsstrahlung as the origin of jet broadening and planar three-jet events. Free fractionally charged or heavy stable particles are searched for in the multihadron sample and upper limits for production cross sections are obtained. The azimuthal angular distributions of both inclusive hadrons and jet axes show a $\cos 2$ diameter-like modulation, compatible with a large vertical beam polarization. (Atomindex citation 11:515973)

Descriptors: *Electron-positron Interactions; Angular distribution; Bremsstrahlung; Differential cross sections; Electrons; Experimental data; GeV range 10-100; Gluon model; Hadrons; Jet model; Multiple production; Photons; Positrons; Quantum electrodynamics

Identifiers: *Foreign technology; ERDA/645101; NTISINIS

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

0984260 DE83901074

Resumption of Exploratory Drilling Operations by Texaco, Inc.: State Oil and Gas Leases - PRC 2725.1 (Jade Prospect), PRC 2208.1 (Anita Prospect), PRC 2955.1 (Refugio Prospect), Santa Barbara County. Final Environmental Impact Report

California State Lands Commission, Sacramento.

Corp. Source Codes: 058656000; 9506068

Report No.: NP-3901074

Apr 82 484p

Portions of document are illegible.

Languages: English

NTIS Prices: PC A21/MF A01 Journal Announcement: GRAI8316

; NSA0800

Country of Publication: United States

An update is presented on air quality conditions in Santa Barbara County, California. Data on photochemical oxidants (measured as ozone), nitrogen dioxide, sulfide dioxide, carbon monoxide, and total suspended particulates are included. Also included are the comments received during the public review and during the public hearing on the Draft Environmental Impact Report on Texaco, Inc.'s proposed Resumption of Exploratory Drilling Operations, State Oil and Gas Leases PRC 2725.1, PRC 2206.1 and PRC 2955.1, responses to these written and oral (hearing) comments, and a modification to the Draft

(cont. next page)

DIALOG

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EIR Air Quality Setting section, incorporating updated ambient air quality data. This volume, when added to the Draft Environmental Impact Report, constitutes the Final Environmental Impact Report in accordance with the California Environmental Quality Act (CEQA) and the State Lands Commission's regulations implementing CEQA. (ERA citation 08:013101)

Descriptors: *California; *Environmental impact statements; *Oil wells; *Natural gas wells; *Ozone; *Nitrogen dioxide; *Sulfur dioxide; *Carbon monoxide; *Total suspended particulates; Well drilling; Exploratory wells; Air quality; Monitoring; Experimental data

Identifiers: ERDA/530300; ERDA/500200; ERDA/290300; ERDA/020900; NTISDEE

Section Headings: 13B (Mechanical, Industrial, Civil, and Marine Engineering--Civil Engineering); 68A (Environmental Pollution and Control--Air Pollution and Control)

0974206 DE82750366

Observation of a Charge Asymmetry in $E \exp + E \exp -$ Implies $\mu \exp + \mu \exp -$

Bartel, W. ; Cords, D. ; Dittmann, P. ; Eichler, R. ; Felst, R.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-81-072

Oct 81 9p

U.S. Sales Only.

Languages: English

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8314 ; NSA0800

Country of Publication: Germany, Federal Republic of

The angular distribution and the s dependence of the total cross-section for the process $e \exp + e \exp -$ implies $\mu \exp + \mu \exp -$ have been measured using the JADE detector at PETRA. After radiative corrections, a forward-backward asymmetry of $-(11.8 \pm 3.8)\%$ was observed at an average centre of mass energy of 33.5 GeV. For comparison, an asymmetry of -7.8% is expected on the basis of the standard Glashow-Salam-Weinberg model. (ERA citation 08:008519)

Descriptors: *Electron-positron interactions; Annihilation; Muons plus; Muons minus; Pair production; Integral cross sections; Energy dependence; Angular distribution; Asymmetry; GeV range 10-100; Differential cross sections; Experimental data

Identifiers: *Foreign technology; ERDA/645101; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

0968912 DE83900225

Recent Results from PETRA on R, on Hadronic Final States, and on Inclusive Hadron Spectra

Felst, R.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-81-075; CONF-810895-21

Nov 81 15p

International symposium on lepton and photon interactions at high energies, Bonn, F.R. Germany, 24 Aug 1981. Portions of document are illegible.

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Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8312 ; NSA0800

Country of Publication: Germany, Federal Republic of

The total cross section $\sigma_{\text{tot}}(e \exp + e \exp - \text{implies hadrons})$ measured by the PETRA experiments CELLO, JADE, PLUTO, MARK J and TASSO shows $1/s$ dependence within the energy range covered, 144 GeV $\exp 2$ less than or equal to 5 less than or equal to 1340 GeV $\exp 2$. Its size agrees to within about 10% with the parton model prediction for pointlike coloured quarks with flavours u, d, s, c, and b. There is evidence for the small QCD correction term but its clear confirmation needs measurements to an accuracy of about 2%. Weak neutral currents, even at the highest PETRA energies, do not contribute significantly to σ_{tot} , which implies within the framework of the standard model $\sin^2 \theta_w = 0.24 \pm 0.06$. The fraction of the total available energy carried by photons and the fraction carried by neutral particles of all types show no strong dependence on center-of-mass energy. The neutrino energy fraction is less than 10% at the 95% confidence level. The charged particle multiplicity rises faster than expected from an extrapolation, linear in $\ln s$, of the low energy data, the dispersion of the multiplicity is roughly proportional to $\langle N_{\text{ch}} \rangle$ and KNO-scaling holds within the errors. The inclusive cross sections $s^{-1} \frac{d\sigma}{dx} \frac{d^2\sigma}{dx dy}$ for π^0 , K^0 and Λ production show roughly the same x-dependence for $x > 0.2$. Baryon production is not negligible. The Λ production alone amounts to about 20% of the K^0 production. (ERA citation 08:006371)

Descriptors: *Electron-positron interactions; *Kaons neutral ; *Lambda particles; *Pions; Annihilation; Total cross sections; Hadrons; Particle production; GeV range 100-1000; TeV range 01-10; Quarks; Multiplicity; Inclusive interactions; Parton model

Identifiers: *Foreign technology; ERDA/645101; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

965865 DE82750709

Upper Limit on Beauty Lifetime and Lower Limit on Weak Mixing Angles

Bartel, W. ; Cords, D. ; Dittmann, P. ; Eichler, R. ; Felst, R.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-82-014

Mar 82 7p

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Languages: English
NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8311
NSA0800
Country of Publication: Germany, Federal Republic of
Muons from a multihadron sample are used to determine an upper limit $\tau < 1.4 \times 10^{-12}$ sec (95% CL) on the lifetime of beauty particles. The data are obtained with the JADE detector at PETRA. The result is interpreted within the standard model. (ERA citation 08:008530)
Descriptors: *Postulated particles; Beauty particles; Lifetime; Limiting values; Mixing ratio; Semileptonic decay; Electron-positron interactions; Annihilation; Multiple production; Muons; Hadrons; Gev range 10-100; Flavor model; Experimental data
Identifiers: *Foreign technology; ERDA/645102; NTISDEE
Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

955853 DE82750672

Measurement of the Reaction $e^+e^- \rightarrow e^+e^- + \gamma$ - Implies $e^+e^- \rightarrow e^+e^- + \gamma$ and the Radiative Width $\Gamma_{\text{GAMMASub}}(\eta' \rightarrow \gamma\gamma)$ at PETRA

Bartel, W. ; Cords, D. ; Dittmann, P. ; Eichler, R. ; Felst, R.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).
Corp. Source Codes: 007929000; 2153000
Report No.: DESY-82-007
Feb 82 7p
U.S. Sales Only.
Languages: English
NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8311
NSA0800

Country of Publication: Germany, Federal Republic of
The reaction $e^+e^- \rightarrow e^+e^- + \gamma$ - implies $e^+e^- \rightarrow e^+e^- + \gamma$ - η' has been observed in the JADE experiment at PETRA, by detecting the final state $\pi^+\pi^- + \gamma$ - γ , resulting from the decay $\eta' \rightarrow \gamma\gamma$. The cross section was measured to be $\sigma(e^+e^- \rightarrow e^+e^- + \gamma - \text{implies } e^+e^- \rightarrow e^+e^- + \gamma - \eta') = 2.2 \pm 0.2$ (stat.) ± 0.4 (syst.) nb, yielding the radiative width $\Gamma_{\text{GAMMASub}}(\eta' \rightarrow \gamma\gamma) = 5.0 \pm 0.5$ (stat.) ± 0.9 (syst.) keV. (ERA citation 08:008524)

Descriptors: *Electron-positron interactions; *Eta-958 resonances; Electroproduction; Pions plus; Pions minus; Photons; Integral cross sections; Electrons; Positrons; Radiative decay; Particle widths; Effective mass; Mass spectra; Transverse momentum; Experimental data

Identifiers: *Foreign technology; ERDA/645101; NTISDEE
Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

950489 DE82903728

Review of Electron-Positron Physics at PETRA

Duinker, P.
Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).
Corp. Source Codes: 007929000; 2153000
Report No.: DESY-81-012
Mar 81 173p
Portions of document are illegible.
U.S. Sales Only.
Languages: English
NTIS Prices: PC A08/MF A01 Journal Announcement: GRAI8306
NSA0700

Country of Publication: Germany, Federal Republic of
These lectures review the experimental results up to the middle of 1980 obtained with PETRA, the world's highest energy electron-positron colliding beam storage ring, at DESY in Hamburg, Germany. Five experiments (CELLO, JADE, MARK-J, PLUTO and TASSO) were approved in 1976 and at the end of 1978 the first measurements were taken. The machine has been running with beam energies ranging from 6 to 18 GeV. The general features and the performance of PETRA are given, the experiments are discussed, starting with an overall view of the goals of the physics program, and a description of the principal components of the detectors. The Monte Carlo simulation programs in use for the various processes and some aspects of the radiative correction calculations are discussed. Tests of Quantum Electrodynamics (QED) and the universality of the charged leptons are given and the measurements of the asymmetry in the production of muon pairs and the first tests of models of the electro-weak interaction with one or more neutral bosons are presented. PETRA offers for the first time the possibility to study the two photon exchange reaction in a systematic way with events samples comparable to the single photon annihilation channel, and the results obtained so far are described. (ERA citation 07:044521)

Descriptors: *Petra storage ring; Research programs; Reviews; Gev range 01-10; Gev range 10-100; Electron-positron interactions; Colliding beams; High energy physics
Identifiers: *Foreign technology; ERDA/430400; ERDA/645100; NTISDEE

Section Headings: 20G (Physics--Particle Accelerators); 46GE (Physics--General)

950487 DE82903724

Determination of Quark Weak Couplings at PETRA Energies

Bartel, W. ; Cords, D. ; Dittman, P.
Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).
Corp. Source Codes: 007929000; 2153000
Report No.: DESY-81-015
Mar 81 11p
Portions of document are illegible.
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Languages: English

NTIS Prices: PC A02/MF A01

Journal Announcement: GRAI8306

NSA0700

Country of Publication: Germany, Federal Republic of

Data on hadron production by e^+e^- annihilation at CM energies between 12 and 36.6 GeV have been collected using the JADE detector. They have been analysed in terms of single photon and weak neutral current exchange assuming production of quark-antiquark pairs with only d, u, s, c and b quarks to produce values for the quark weak neutral current couplings. A further analysis in terms of the Glashow-Salam-Weinberg theory produced the result, $\sin^2 \theta_W = 0.22 \pm 0.08$. The theory has therefore been tested in a new energy domain and within the context of the neutral weak couplings of the first, second and third generation quarks. (ERA citation 07:044939)

Descriptors: *Electron-positron interactions; *Quarks; Annihilation; Hadrons; Particle production; Gev range 10-100; Weak neutral currents; Weak interactions

Identifiers: *Foreign technology; ERDA/645101; ERDA/645203; NTISDEE

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

949893 DE82017634

Conceptual Design of a Laser-Fusion Power Plant. Part II. Two Technical Options: 1. JADE Reactor; 2. Heat Transfer by Heat Pipes

Lawrence Livermore National Lab., CA.

Corp. Source Codes: 068147000; 9513035

Sponsor: Bechtel Group, Inc., San Francisco, CA.; Department of Energy, Washington, DC.

Report No.: UCRL-15467-PT.2

Jul 81 59p

Languages: English

NTIS Prices: PC A04/MF A01

Journal Announcement: GRAI8306

NSA0700

Country of Publication: United States

Contract No.: W-7405-ENG-48

A laser fusion reactor concept is described that employs liquid metal walls. The concept envisions a porous medium, called the JADE, of specific geometry lining the reactor cavity. Some advantages and disadvantages of the concept are pointed out. The possibility of using heat pipes for passive cooling in ICF reactors is discussed. Some of the problems are outlined. (ERA citation 07:060599)

Descriptors: *Laser fusion reactors; *Heat pipes; *Thermonuclear reactor cooling systems; Lithium; Coolants; First wall; Porosity; Cooling systems; Heat transfer

Identifiers: ERDA/700204; ERDA/700208; NTISDE

Section Headings: 18A (Nuclear Science and Technology--Fusion Devices (Thermonuclear)); 77A (Nuclear Science and Technology--Fusion Devices (Thermonuclear)); 970 (Energy--Miscellaneous Energy Conversion and Storage)

936180 DE82750151

Investigation of High Psub(T) Jets in Two-Photon Interactions

Cords, D.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-81/033

Jun 81 12p

U.S. Sales Only. Available in microfiche only.

Languages: English

NTIS Prices: MF A01

Journal Announcement: GRAI8226;

NSA0700

Country of Publication: Germany, Federal Republic of

The experiments JADE, PLUTO, and TASSO at the PETRA storage ring have searched for 2-jet-like processes in two-photon interactions. Events with a characteristic 2-jet topology have been observed and it is found that the point-like gamma gamma implies $q\bar{q}$ cross section is approached from above at large transverse momenta of the jets. (ERA citation 07:044944)

Descriptors: *Photon-photon interactions; Multiple production; Jet model; Inclusive interactions; Differential cross sections; Transverse momentum; Gev range 01-10; Photoproduction; Experimental data; Quarks

Identifiers: *Foreign technology; ERDA/645101; NTISDEP

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

920805 DE82780129

Experimental Limits on the Strength of Weak Neutral Currents in Lepton Pair Production at PETRA Energies

Bartel, W. ; Cords, D. ; Dittmann, P. ; Eichler, R. ; Felst, R.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-80/123

Dec 80 8p

U.S. Sales Only.

Languages: English

NTIS Prices: PC A02/MF A01

Journal Announcement: GRAI8221

NSA0000

Country of Publication: Germany, Federal Republic of

The processes $e^+e^- \rightarrow e^+e^-$ and $\mu^+\mu^- \rightarrow \mu^+\mu^-$ have been studied at PETRA using the JADE detector. The data, which were collected at s values of up to 1300 GeV have been analysed in terms of an electro-weak extension of QED to obtain values for the weak vector and axial vector couplings in the lepton sector. The values obtained agree with the predictions of the standard Salam-Weinberg model and the data are further analysed in terms of this model to obtain the limits $0.10 < \sin^2 \theta_W < 0.40$ (68% C.L.). The mass of the neutral weak gauge boson is deduced to be greater than 51 GeVc. (cont. next page)

DIALOG File 8: NTIS - 84-84/ISS24 (Copr. NTIS)

Descriptors: *Electron-positron interactions; *Weinberg lepton model; Annihilation; Pair production; Muons plus; Muons minus; Elastic scattering; Electrons; Positrons; Gev range 10-100; Quantum electrodynamics; Weak neutral currents; Mixing ratio; Intermediate vector bosons; Rest mass; Limiting values; Differential cross sections; Energy dependence; Coupling constants; Neutral-current interactions; Vector currents; Axial-vector currents; Experimental data

Identifiers: *Foreign technology; ERDA/645102; NTISDEE
Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

914599 DE82780450

Selected Topics in E exp + E exp - Physics

Sau Lan Wu

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: DESY-81-003; CONDF-8007126-2

Jan 81 57p

Arctic school of physics, Akaslompolo, Finland, 27 Jul 1980.

U.S. Sales Only. Available in microfiche only.

Languages: English Document Type: Conference proceeding

NTIS Prices: MF A01 Journal Announcement: GRAI8223;

NSA0700

Country of Publication: Germany, Federal Republic of

Selected topics of recent experimental results from the high-energy electron-positron storage rings are presented. The topics include some of the tau and charm physics from SPEAR, the upsilon physics from DORIS and CESR, and the gamma gamma physics and quark and gluon physics from the PLUTO and TASSO Collaborations at PETRA. Related data from the JADE and MARK J Collaborations at PETRA are discussed in separated papers at this school. (ERA citation 07:044936)

Descriptors: *Electron-positron interactions; Annihilation; Gev range 01-10; Gev range 10-100; Tau particles; Upsilon resonances; Photon-photon interactions; Gluons; Quarks

Identifiers: *Foreign technology; ERDA/645101; NTISDEP

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

898533 DE81700218

Recent Experimental Data on gamma gamma Physics

Courau, A.

Paris-11 Univ., Orsay (France). Lab. de l'Accelérateur Linéaire.

Corp. Source Codes: 055555004; 9100585

Report No.: LAL-81-03

Feb-81 41p

In French.

U.S. Sales Only.

Languages: French

NTIS Prices: PC A03/MF A01 Journal Announcement: GRAI8212

Country of Publication: France

Recent experimental data on photon-photon physics from DCI, SPEAR (MARK II and MP2S3) and PETRA (PLUTO, TASSO, JADE and

MARK J) are shown and analyzed in some detail. We successively consider: QED (lepton pair production), hadron pair production (in particular formation of the f_0), gamma gamma implies eta', rho exp 0 pair production, total gamma gamma cross-section measurements, deep inelastic electron-photon scattering. (Atomindex citation 12:628701)

Descriptors: *Leptons; *Photon-electron interactions; *Photon-photon interactions; Data compilation; Deep inelastic scattering; Experimental data; Gev range 01-10; Gev range 10-100; Hadrons; Pair production; Total cross sections

Identifiers: *Foreign technology; ERDA/645101; NTISINIS

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

895952 DE81030646

Design Considerations for an Inertial Confinement Fusion Reactor Power Plant

Massey, J. V.; Simpson, J. E.

Lawrence Livermore National Lab., CA.

Corp. Source Codes: 068147000; 9513035

Sponsor: Bechtel, Inc., San Francisco, CA.; Department of Energy, Washington, DC.

Report No.: UCRL-15377

10 Aug 81 4p

Available in microfiche only.

Languages: English

NTIS Prices: MF A01 Journal Announcement: GRAI8211;

NSA0700

Country of Publication: United States

Contract No.: W-7405-ENG-48

To further define the engineering and economic concerns for inertial confinement fusion reactors (ICF's), a conceptual design study was performed by Bechtel Group Incorporated under the direction of Lawrence Livermore National Laboratory (LLNL). The study examined alternatives to the LLNL HYLIFE concept and expanded the previous balance of plant design to incorporate information from recent liquid metal cooled fast breeder reactor (LMFBR) power plant studies. The majority of the effort was to incorporate present laser and target physics models into a reactor design with a low coolant flowrate and a high driver repetition rate. An example of such a design is the LLNL JADE concept. In addition to producing a power plant design for LLNL using the JADE example, Bechtel has also examined the applicability of the EAGLE (Energy Absorbing Gas Lithium Ejector) concept. (ERA citation 07:006548)

Descriptors: *Laser fusion reactors; Cooling systems; Design; Jets; Lithium; Thermonuclear power plants

Identifiers: ERDA/700208; NTISDE

Section Headings: 18A (Nuclear Science and Technology--Fusion Devices (Thermonuclear)); 77A (Nuclear Science and Technology--Fusion Devices (Thermonuclear)); 970 (Energy--Miscellaneous Energy Conversion and Storage)

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

879279 DE81030068

Options: The JADE Reactor and Heat Transfer by Heat Pipes

Simpson, J. E. ; Massey, J. V.

Lawrence Livermore National Lab., CA.

Corp. Source Codes: 068147000; 9513035

Sponsor: Bechtel Group, Inc., San Francisco, CA.; Department of Energy, Washington, DC.

Report No.: UCRL-15376; CONF-811103-40

10 Aug 81 5p

ANS winter meeting, San Francisco, CA, USA, 29 Nov 1981.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8204

; NSA0600

Country of Publication: United States

Contract No.: W-7405-ENG-48

The JADE reactor is a new Lawrence Livermore National Laboratory (LLNL) concept which maintains advantages of liquid metal walls and addresses some of their problems. The concept envisions a porous medium, called the jade, of specific geometry lining the reactor cavity. The jade is designed to convert the kinetic energy of the fluid to thermal energy before it reaches the first wall. Finally, its particular geometric shape is used to minimize reaction forces on the first wall due to blow-off caused by soft x-rays and debris, to provide empty spaces for fluid expansion after neutron energy deposition where droplets collide with droplets cancelling their kinetic energies, and to provide large surface areas for rapid condensation of vapor. LLNL also suggested that heat pipes might be used to eliminate portions of the primary or secondary coolant loops, thereby reducing pumping requirements found in current reactor designs. (ERA citation 06:032762)

Descriptors: *Laser fusion reactors; First wall; Heat pipes; Inertial confinement; Lithium; Specifications

Identifiers: ERDA/700208; ERDA/700204; NTISDE

Section Headings: 18A (Nuclear Science and Technology--Fusion Devices (Thermonuclear)); 77A (Nuclear Science and Technology--Fusion Devices (Thermonuclear))

877651 PB82-116427

Phase Equilibria in High-Pressure Rocks on Sifnos, Greece (Phasengleichgewichte in Hochdruckgesteinen von Sifnos, Griechenland)

Technische Univ., Brunswick (Germany, F.R.).

Naturwissenschaftliche Fakultät (1).

Corp. Source Codes: 034107009

1980 150p

Text in German.

Languages: German Document Type: Thesis

NTIS Prices: PC A07/MF A01 Journal Announcement: GRAI8203

Country of Publication: Germany, Federal Republic of

The northern part of Sifnos Island consists of a coherent high-pressure metamorphic terrane of Eocene age. Volcanic protoliths were potassium-rich alkali-basalts, spilitic

ocean-floor tholeiites and quartz-keratophyres. The sedimentary part includes pure limestones with thin intercalations of marls, pelites and cherts. The alkali-basalts, tholeiites and quartz-keratophyres are now represented by phengite eclogites, glaucophanites and quartz-jadeite gneisses, respectively. Mineral textures, systematic Fe²⁺ - Mg distributions between coexisting phases and a regular correlation between bulk-rock compositions and mineral assemblages and mineral compositions, respectively, suggest attainment of equilibrium. The metamorphic conditions are estimated to 4700 and 16 kbar. Phase relations between omphacite, glaucophane, paragonite, actinolite and chloritoid in epidote-garnet-bearing metabasites can be interpreted with the NAC-projection.

Descriptors: *Sifnos Island; *Metamorphic rocks; Petrography; Mineralogy; High pressure; Greece; Theses

Identifiers: *Foreign technology; Phase studies; NTISTFESA

Section Headings: 8G (Earth Sciences and Oceanography--Geology and Mineralogy); 8D (Earth Sciences and Oceanography--Geochemistry); 48F (Natural Resources and Earth Sciences--Geology and Geophysics)

873755 DESY-80/46

Results from JADE

Petersen, A. ; Bartel, W.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Jun 80 24p

15. rencontre de Moriond on high energy hadronic interactions and electroweak interactions and unified theory predictions, Les Arcs, France, 9 - 21 Mar 1980.

U.S. Sales Only.

Languages: English

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8202

Country of Publication: Germany, Federal Republic of

Topological distributions of multihadron events from e^+e^- annihilation are studied at \sqrt{s} of about 30 GeV. An excess of planar events is observed, which cannot be explained by statistical fluctuations in the standard two-jet model. We show that the planar events possess three-jet structure and that the broader jet consists of two-colinear jets in its own rest system. This strongly suggests gluon bremsstrahlung as the origin of the planar three-jet events. Different particle densities among the jets give first indications of different behaviour of quark jets and gluon jets. (Atomindex citation 11:557197)

Descriptors: *Electron-positron interactions; Annihilation; GeV range 10-100; Gluons; Hadrons; Jet model; Multiple production; Quarks; Topology

Identifiers: *Foreign technology; ERDA/645101; NTISINIS

Section Headings: 20H (Physics--Particle Physics); 46GE (Physics--General)

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

860508 DESY-80/38

Experience with the JADE JET-Chamber at PETRA and Pattern Recognition Programs for the JADE JET-Chamber

Drumm, H. ; Granz, B. ; Heintze, J. ; Heinzelmann, G. ; Heuer, R. D.

Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.).

Corp. Source Codes: 007929000; 2153000

Report No.: CONF-800243-3

May 80 25p

Wire chamber conference, Vienna, Austria, 27 Feb 1980.

U.S. Sales Only.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8123

Country of Publication: Germany, Federal Republic of

This report contains the contributions to the 1980 Wire Chamber Conference at Vienna concerning the JADE JET-Chamber. Part 1: The principle of the jet-chamber, a pictorial driftchamber serving as the central track detector of the JADE experiment at PETRA is briefly reviewed. In this chamber, up to 48 points are measured along each track. At each point the space coordinates R, diameter, Z and the energy loss dE/dx of charged particles are recorded. The present status of the space resolution and of energy loss measurements is described. Experience during nine months of operation is reported. Part 2: Pattern recognition programs developed for the jet chambers of the JADE experiment are described. A method is presented which allows a fast determination of the event vertex along the beam direction without prior track finding. The track finding itself starts with the complete set of measured points per track and reduces this information to line elements, track elements and tracks. The efficiency obtained so far for jet events with a high track density is 97% per track. In addition a graphics program is described which allows interactive guidance of the pattern recognition. (Atomindex citation 11:555566)

Descriptors: *Drift chambers; Charged particle detection; Computer codes; Diagrams; Efficiency; Energy losses; Particle tracks; Pattern recognition; Petra storage ring; Position sensitive detectors; Spatial resolution

Identifiers: *Foreign technology; ERDA/440104; NTISINIS; NTISFNGE; NTISINIS

Section Headings: 18D (Nuclear Science and Technology--Nuclear Instrumentation); 77E (Nuclear Science and Technology--Nuclear Instrumentation)

837332 SLAC-PUB-2635

DE/DX Prototype Test

Va'vra, J. ; Rust, D.

Stanford Linear Accelerator Center, CA.

Corp. Source Codes: 014489000; 5910000

Sponsor: Indiana Univ., Bloomington.; Department of Energy, Washington, DC.

Report No.: CONF-801103-15

Oct 80 5p

IEEE nuclear science symposium, Orlando, FL, USA, 5 Nov 1980.

Languages: English Document Type: Conference proceeding

NTIS Prices: PC A02/MF A01 Journal Announcement: GRAI8114 ; NSAO600

Country of Publication: United States

Contract No.: AC03-76SF00515

A small prototype of a multiwire dE/dx detector was tested in SLAC's test beam. The basic concept of the detector was similar to the JADE drift cell design. The purpose of the test was to decide on some design parameters for a full size prototype, which is now in construction. (ERA citation 06:005237)

Descriptors: *Radiation detectors; Design; Electric potential; Gases; Linear accelerators; Test facilities

Identifiers: ERDA/440104; NTISDE

Section Headings: 18D (Nuclear Science and Technology--Nuclear Instrumentation); 77E (Nuclear Science and Technology--Nuclear Instrumentation)

247117 AD-733 278

Recent Sediments of the Central California Continental Shelf - Pigeon Point to Sand Hills Bluffs. Part B. Mineralogical Data

Lee, J. ; Yancey, T. ; Glogoczowski, M. ; Wilde, P.

California Univ Berkeley Hydraulic Engineering Lab

Corp. Source Codes: 173900

Report No.: HEL-2-31

Jul 71 60p

See also Part A, AD-714 996.

NTIS Prices: PC A04 MF A01 Journal Announcement: GRAI7202

Contract No.: DACW72-67-C-0015

The heavy mineralogy of the sand fraction for 37 offshore, 9 beach and 3 stream samples for this region is determined optically. For each sample the percentage of the more diagnostic transparent minerals is plotted graphically in order of persistence; zircon, garnet, biotite, clinozoisite and epidote, lawsonite, green hornblende, oxy-hornblende, glaucophane, sphene, zoisite, augite, jadeite, hypersthene, enstatite, and tremolite and actinolite. Additional data on accessory transparent minerals, composite grains (rock fragments) and opaque minerals are listed with each graph. (Author)

Descriptors: *Continental shelves; California ; *Sedimentation; Continental shelves ; Minerals; Identification ; Particle size; Sampling; Separation; Distillation; Garnet; Chemical properties; Optical properties; Crystal structure; Site selection; Sampling; Petrography; Tables

Identifiers: Pigeon Point; Sand Hills Bluffs; Heavy minerals ; Sedimentology; San fraction; Biotites; NTISA

Section Headings: 8J (Earth Sciences and Oceanography--Physical Oceanography); 18G (Nuclear Science and Technology--Radioactive Wastes and Fission Products); 78H (Ocean Sciences and Engineering--Physical Oceanography); 78E

(cont. next page)

DIALOG File 6: NTIS - 64-84/ISS24 (Copr. NTIS)

(Ocean Sciences and Engineering--Marine Geophysics and Geology)

240454 AD-730 793

Recent Sediments of Monterey Bay - Additional Mineralogical Data

(Technical rept.)

Yancey, T. ; Wilde, P.

California Univ Berkeley Hydraulic Engineering Lab

Corp. Source Codes: 173900

Report No.: HEL-2-33

Sep 71 62p

See also report dated Jul 68, AD-678 314.

NTIS Prices: PC A04 MF A01 Journal Announcement: GRAI7122

Contract No.: DACW72-67-C-0015

The heavy mineralogy of the sand fraction for beach samples reported by Sayles (1966) and 10 new offshore samples from South Monterey Bay was determined optically. For each sample the percentage of the more diagnostic transparent minerals is plotted graphically in order of persistence: zircon, garnet, biotite, apatite, clinozoisite and epidote, lawsonite, green hornblende, oxy-hornblende, glaucophane, sphene, zoisite, augite, jadeite, hypersthene, enstatite, and tremolite and actinolite. Additional data on accessory transparent minerals, composite grains (rock fragments) and opaque minerals are listed with each graph. An updated bibliography is presented to include all new work on the geology and sediment of Monterey Bay. (Author)

Descriptors: *Petrography; *Ocean bottom; *Beaches; Petrography; Sand; Sedimentation; Particle size; Ocean bottom sampling; Continental shelves; California

Identifiers: Monterey Bay; *Heavy mineral analysis; NTISA
Section Headings: 8G (Earth Sciences and Oceanography--Geology and Mineralogy); 8J (Earth Sciences and Oceanography--Physical Oceanography); 78E (Ocean Sciences and Engineering--Marine Geophysics and Geology)

167844 PB-189 687

Talc Deposits in the Coosa Valley Area, Georgia

Needham, Robert E. ; Hurst, Vernon J.

Coosa Valley Area Planning and Development Commission, Rome, Ga.

Mar 70 69p

Prepared in cooperation with Georgia Univ., Dept. of Geology and the Economic Development Administration, Washington, D.C. Limited number of copies containing color other than black and white are available until stock is exhausted. Reproductions will be made in black and white only. PORTIONS OF THIS DOCUMENT ARE NOT FULLY LEGIBLE.

NTIS Prices: PC A04 MF A01 Journal Announcement: USGRDR7008

The study of talc deposits in the Coosa Valley area began in 1966 as part of a broader study under contract with the Coosa Valley Area Planning and Development Commission, Rome, Georgia, and the Economic Development Administration,

Washington, D. C. The Coosa Valley area comprises 13 counties in northwest Georgia. The talc is in a metasedimentary unit, the Cohutta schist, which has been intruded and largely engulfed by the Fort Mountain gneiss. The trend of the schist is clear on the accompanying geologic map, though only remnants remain. A total of 26 remnants have been mapped, three of which currently are being mined. The longest continuous exposure is 1500 feet. About half the strike distance of the talcose unit is covered by scree and slope wash deposits, which might conceal workable deposits. The Addendum contains information on the mineralogy of talc, its mining, processing, marketing and utilization, imports-exports, prices, and general outlook. (Author)

Descriptors: *Talc; Georgia; Economic geology; Underground structures; Geophysical prospecting; Purification; Costs; Law; Maps

Identifiers: Coosa Valley(Georgia); Schist; Dolomite; Gneiss; Nephrite Jade; Regional planning and development

Section Headings: 8G (Earth Sciences and Oceanography--Geology and Mineralogy)

122809 AD-680 284

The Thermochemistry of Jadeite

Hlabse, T. ; Kleppa, O. J.

Chicago Univ. Ill James Franck Inst

Corp. Source Codes: 403034

Report No.: AR0D-5107:18

7 Feb 68 15p

Pub. in American Mineralogist, v53 p1281-1292 Jul/Aug 68.

Document Type: Journal article

NTIS Prices: PC A02 MF A01 Journal Announcement: USGRDR6905

Contract No.: DA-AR0(D)-31-124-G961; DA-20014501-B-32-D

The enthalpy changes associated with the mineralogical reactions: (1) Albite=Jadeite+Quartz; (2) Albite+Nepheline=2 Jadeite have been redetermined at 964K by oxide melt solution calorimetry. When these results are combined with available heat capacity and entropy data they may be compared with the results of the room temperature thermochemical work of Kracek, Neuvonen and Burley and with high temperature-high pressure equilibrium studies. In order to achieve agreement with equilibrium work above 700C it is essential to take into account the enthalpy and entropy changes associated with the low to high albite transformation. (Author)

Descriptors: *Thermochemistry; Silicon dioxide; *Minerals; Thermochemistry; Enthalpy; Entropy; Quartz; Feldspar; Calorimetry; Equilibrium; Petrology; Geophysics

Identifiers: *Jadeite; Albite

Section Headings: 7D (Chemistry--Physical Chemistry); 8G (Earth Sciences and Oceanography--Geology and Mineralogy)

APPENDIX B

**BIBLIOGRAPHY SEARCH ON 1 SEPT. 1986
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SAMPLE RECORD

The positions of the key fields are shown in the following sample record.

AN 1012344 80-48454

TI Manganese and copper geochemistry of interstitial fluids from manganese nodule-rich pelagic sediments of the northeastern equatorial Pacific Ocean

AU Callender, E.; Bowser, C. J.

CS U. S. Geol. Surv., Reston, Va., USA; Univ. Wis., USA

JN PY Am. J. Sci. 280: 10, 1063-1096p., 1980

CO SN CODEN: AJSCAP ISSN: 0002-9599

SF Subfile: B

CP Country of Publ.: United States

DT BL Doc Type: SERIAL Bibliographic Level: ANALYTIC

LA Languages: English

LT LN Latitude: N000000; N200000 Longitude: W1800000; E1400000

DE Descriptors: *Pacific Ocean; *nodules; *manganese; *diagenesis; *metals; *sediments; *copper ; oceanography; geochemistry; pore water ; genesis; secondary structures; sedimentary structures; Equatorial Pacific; Northeast Pacific; remobilization ; solubility; desorption; precipitation

SH Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

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Key to Data Fields

AB	Abstract	JN	Journal Name
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CP	Country of Publication	SF	Subfile
CS	Corporate Source	SH	Section Heading Code
CT	Conference Title	SL	Summary Language
CY	Conference Year	SN	ISSN
DE	Descriptor	TI	Title
DT	Document Type		

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File 89:GEOREF - 1785-1986/AUG (Copr. American Geological
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4	133	NEPHRITE
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6	298	S3 OR S4
7	983649	PY=1960:1986
8	239	S6 AND S7

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SAMPLE RECORD

The positions of the key fields are shown in the following sample record.

AN 1012344 80-48454
TI Manganese and copper geochemistry of interstitial fluids from manganese nodule-rich pelagic sediments of the northeastern equatorial Pacific Ocean
AU Callender, E.; Bowser, C. J.
CS U. S. Geol. Surv., Reston, Va., USA; Univ. Wis., USA
JN PY Am. J. Sci. 280: 10, 1063-1096p., 1980
CD SN CODEN: AJSCAP ISSN: 0002-9599
SF Subfile: B
CP Country of Publ.: United States
DT BL Doc Type: SERIAL Bibliographic Level: ANALYTIC
LA Languages: English
LT LN Latitude: N000000; N200000 Longitude: W1800000; E1400000
DE Descriptors: *Pacific Ocean; *nodules; *manganese; *diagenesis; *metals; *sediments; *copper; oceanography; geochemistry; pore water; genesis; secondary structures; sedimentary structures; Equatorial Pacific; Northeast Pacific; remobilization; solubility; desorption; precipitation
SH Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)
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Key to Data Fields

AB	Abstract	JN	Journal Name
AN	GEOREF Accession Number	LA	Language
AU	Author	LN	Longitude
BL	Bibliographic Level	LT	Latitude
BN	ISBN	PU	Publisher
CL	Conference Location	PY	Publication Year
CO	CODEN	RN	Report Number
CP	Country of Publication	SF	Subfile
CS	Corporate Source	SH	Section Heading Code
CT	Conference Title	SL	Summary Language
CY	Conference Year	SN	ISSN
DE	Descriptor	TI	Title
DT	Document Type		

Data present in record depends on output format requested and type of record.

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

1402822 86-56199

**Review of diamond drilling of nephrite jade deposits near
Cowell, South Australia**

Flint, D. J.; Dubowski, E. A.

Geol. Surv. South Aust., Adelaide, South Aust., AUS

**Proceedings of the Eighth Australian geological convention;
Geological Society of Australia; Earth resources in time and
space**

Branch, C. D. (convener)

Geol. Soc. Aust., AUS

**Eighth Australian geological convention; Geological Society
of Australia; Earth resources in time and space, Adelaide,
South Aust., Australia, Feb. 16-21, 1986**Abstracts - Geological Society of Australia 15, 75-76p.,
1986

Country of Publ.: Australia

ISSN: 0729-011X

Subfile: B

Doc Type: SERIAL; CONFERENCE PUBLICATION

Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *South Australia; *mineral exploration ;
economic geology; programs ; gems; ore guides; southern South
Australia; Cowell; nephrite; jade; progress report; control;
dolomitic marble; intrusions; production

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1400859 86-55649

**Structural deformation and metallogenesis of the Liaojitite
Suite**Yang Zhensheng; Li Shuguang; Yu Baoxiang; Gao Chengyue; Gao
DehuaChangchun Coll. Geol., Changchun, CHN; Liaoning Prov. Bur.
Geol. and Miner. Resour., CHN**International symposium on metallogeny of the early
Precambrian; abstracts**

Cheng Yuqi (chairperson)

Minist. Geol. and Miner. Resour., CHN

**International symposium on metallogeny of the early
Precambrian, Changchun, China, Oct. 10-13, 1985**Publ: Organ. Comm. Int. Symp. Metallog. Early Precambrian
81-82p., 1985

Country of Publ.: China

Subfile: B

Doc Type: BOOK; CONFERENCE PUBLICATION

Bibliographic Level: ANALYTIC

Languages: English

Annex 4 to Project 91 activities report, 1985.

Descriptors: *China; *mineral deposits; *genesis ; economic
geology; controls ; mineral resources; structural controls;
mineral deposits, genesis; Proterozoic; IGCP; Northern Chin;
Liaojitite Suite; metallogeny; mineralization; aulacogens;
diapirism; polyphase processes; boron deposits; iron ores;
cobalt ores; rare earth deposits; lead-zinc deposits;
stratabound deposits; jade; gems

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

1396204 86-42778

Nephrite, the stone of eternity

Saturin, A.

Vinogradov Inst. Geochem., SUN

Science in USSR 1986: 1, 24-29p., 1986

Country of Publ.: Union of Soviet Socialist Republics

ISSN: 0203-4638

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *USSR; *minerals ; mineralogy; chain silicate;
clinoamphibole ; nephrite; chain silicates, clinoamphibole;
jade; greenstone; occurrence

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1396003 86-47880

Cd, Pb, Cu, Ni and Co distribution in the German Bight

Mart, L.; Nurnberg, H. W.

Nucl. Res. Cent., Inst. Appl. Phys. Chem., Juelich, DEU

Chemistry of the Mediterranean

Branica, M. (EDITOR)

Nucl. Res. Cent., Inst. Appl. Phys. Chem., Juelich, DEU

**VIII International Symposium on the Chemistry of the
Mediterranean, Primosten, Yugoslavia, May 16-24, 1984**

Marine Chemistry 18: 2-4, 197-213p., 1986

Country of Publ.: Netherlands

ISSN: 0304-4203

CODEN: MRCHBD 30 REFS.

Subfile: B

Doc Type: SERIAL; CONFERENCE PUBLICATION

Bibliographic Level: ANALYTIC

Languages: English

illus., 2 tables, sketch map

Descriptors: *sea water; *metals; *West Germany; *North Sea
; geochemistry; environmental geology ; pollution; cadmium;
lead; copper; nickel; cobalt; German Bight; voltammetry;
Weser River; Elbe River; Wadden Sea; Ems Estuary; East
Frisian Isles; Jade Bay; HelgolandSection Headings: 22 .(ENGINEERING & ENVIRONMENTAL GEOLOGY)
02 .(GEOCHEMISTRY)

1393638 86-42772

The bounties of Fremont County

Rohn, K. H.

Jewelry Making Gems & Minerals 581, 26-30p., 1986

Country of Publ.: United States

ISSN: 0274-8193

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch map

Descriptors: *Wyoming; *minerals ; mineralogy; silicates
(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

; mineral localities; central Wyoming; Fremont County;
nephrite; agate; fossil wood; collecting; popular geology;
Lysite

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1393624 86-42791

Field trip; Nenana River jade

Spendlove, E.

Rock & Gem 16: 5, 48-51, 71p., 1986

Country of Publ.: United States

ISSN: 0048-8453

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch map

Descriptors: *Alaska; *minerals; mineralogy; chain
silicates; clinoamphibole; nephrite; central Alaska; Nenana
River; chain silicates, clinoamphibole; jade; mineral
localities; collecting; popular geology; stream placers

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1370662 86-27574

The occurrence of botryoidal and gem-quality nephrite in
Monterey County, California

Paradise, T. R.

Journal of Gemmology and Proceedings of the Gemmological
Association of Great Britain 19: 8, 672-681p., 1985

Country of Publ.: United Kingdom

ISSN: 0022-1252

CODEN: JGGAAR 4 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch maps

Descriptors: *California; *minerals; *placers; economic
geology; gems; chain silicates; clinoamphibole; nephrite;
Monterey County; Central California; mineralogy; chain
silicates, clinoamphibole; botryoidal texture; Plaskett Poin;
Cape San Martin; Jade Cove; serpentine; beach placers

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1367457 86-21197

A terrestrial source of ureyite

Chiu Mei Ou Yang

Univ. Hong Kong, Dep. Geogr. and Geol., HKG

American Mineralogist 69: 11-12, 1180-1183p., 1984

Country of Publ.: United States

ISSN: 0003-004X

CODEN: AMMIAV 4 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 3 tables

Descriptors: *minerals; *crystal structure; chain silicate

pyroxene group; ureyite; chain silicates, pyroxene group;
chemical composition; unit cell; lattice parameters; optical
properties; paragenesis; jade

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1352993 86-00945

Ophiolitic ultramafic rocks of the Jade Mountains-Cosmos
Hills area, southwestern Brooks Range

Loney, R. A.; Himmelberg, G. R.

U. S. Geol. Surv., USA

The United States Geological Survey in Alaska;
accomplishments during 1984

Bartsch-Winkler, S. (EDITOR)

U. S. Geol. Surv., USA

Geological Survey Circular 0967, 13-15p., 1985

Country of Publ.: United States

ISSN: 0364-6017

CODEN: XICIA5 12 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

geol. sketch map

Latitude: N664500; N672000 Longitude: W1563000; W1582000

Descriptors: *Alaska; *igneous rocks; petrology;
ultramafics; ophiolite; USGS; northern Alaska; Cosmos Hill;
Jade Mountains; Brooks Range; gems; nephrite; jade

Section Headings: 05 (PETROLOGY, IGNEOUS AND METAMORPHIC)

1346774 86-06699

California jade and plasma

Bushman, J.

Lapidary Journal 39: 7, 38-41p., 1985

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch map

Descriptors: *California; economic geology; gems;
Monterey County; Central California; jadeite; Idria; Clear
Creek; King City; Diablo Mountains; plasma agate; cinnabar;
mines; popular geology; collecting

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1345407 85-77104

Verteilung und Metabolismus von Pentachlorphenol in
Sedimenten und Muscheln des JadebusensDistribution and metabolism of pentachlorophenol in
sediments and mollusks of Jade Bay

Butte, W.; Hoepner, T.; Buchholz, H.; Denker, J.; Kirsch, M.

Fachbereich Chemie und Biologie d. Univ. Oldenburg

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Publ: Univ. Oldenburg
25p., 1982
Country of Publ.: Germany, Federal Republic of
19 REFS.
Subfile: B
Doc Type: BOOK Bibliographic Level: MONOGRAPHIC
Languages: German
illus., tables, geol. sketch map
Latitude: N532400; N533000 Longitude: E0082000; E0080400
Descriptors: *West Germany; *sediments; environmental
geology; geochemistry; pollution; pollutants; organic
materials; mud flats; silt; clastic sediments; anaerobic
environment; bivalves; gas chromatographs; mass spectra;
major elements; size distribution; hydrolysis; pyrolysis;
sampling; sample preparation; Northwestern German Plain;
shore features; shells; analysis; Germany; Europe; Jade Bay
Section Headings: 22 (ENGINEERING & ENVIRONMENTAL GEOLOGY)

1338122 85-66076
Turbulence and sediment transport measurements in a North
Sea tidal inlet (the Jade)

McLean, S. R.
Univ. Calif. at Santa Barbara, Dep. Mech. and Environ. Eng.,
Santa Barbara, CA, USA

North Sea dynamics
Suendermann, J.(EDITOR); Lenz, W.(EDITOR)
Univ. Hamburg, Inst. Meereskd., Hamburg 13 2000, DEU
International symposium on North Sea dynamics, Hamburg,
Germany, Federal Republic of, Aug. 31-Sept. 4, 1981

Publ: Springer-Verlag
436-452p., 1983
Country of Publ.: Germany, Federal Republic of
ISBN: 3-540-12013-0
11 REFS.
Subfile: B

Doc Type: BOOK; CONFERENCE PUBLICATION
Bibliographic Level: ANALYTIC

Languages: English
illus., 11 plates, sketch map
Descriptors: *North Sea; *sediments; *sedimentation;
oceanography; marine sediments; transport; tidal currents;
tidal inlets; velocity; experimental studies; instruments;
Atlantic Ocean; Jade Bay
Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

1334790 85-64826
Jade; the sign of ancient Chinese culture
Wen Guang
Chin. Acad. Geol. Sci., Inst. Geol., Peking, CHN
Bogdanov, N. A.(EDITOR)
27-y mezhunarodnyy geologicheskii kongress, Moscow, Union
of Soviet Socialist Republics, Aug. 4-14, 1984
International Geological Congress 27: 8, 476p., 1984
Country of Publ.: International
Subfile: B

Doc Type: SERIAL; CONFERENCE PUBLICATION
Bibliographic Level: ANALYTIC
Languages: English
Descriptors: *minerals; *mineralogy; occurrence; history;
jade; pyroxene group; chain silicates; silicates; China;
Asia; Hsia Dynasty; Shang Dynasty; Chou Dynasty
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1333953 85-71584

The great Oregon jade find
Estes, B.

Rock & Gem 15: 9, 64-65p., 1985
Country of Publ.: United States
ISSN: 0048-8453
Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.

Latitude: N420000; N420000 Longitude: W1230000; W1230000
Descriptors: *Oregon; economic geology; gems; Josephine
County; United States; southwestern Oregon; jade; pyroxene
group; chain silicates; silicates; popular geology;
collecting; nephrite; amphibole group; diopside; chromite;
oxides; tremolite; actinolite
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1321610 85-52648

Pozycja petrologiczna rodingitow z Jordanowa (Dolny Slask)
Petrology of rodingites of Jordanow, Lower Silesia
Heflik, W.

Akad. Gorniczo-Hutnicza, POL
Przeglad Geologiczny 30: 6, 277-280p., 1982
Country of Publ.: Poland
ISSN: 0033-2151
CODEN: PRZGAL 18 REFS.
Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: Polish Summary Languages: English
Descriptors: *Poland; *igneous rocks; petrology;
ultramafics; rodingite; Northwestern Polish Plain; gabbro
family; serpentinite; metaigneous rocks; metasomatic rocks;
nephrite; amphibole group; chain silicates; silicates;
metamorphism; ophiolite; ultramafic family; intrusions;
Europe; Jordanow; Lower Silesia
Section Headings: 05 (PETROLOGY, IGNEOUS AND METAMORPHIC)

1318838 85-51439

An investigation of nephrite jade by electron microscopy

Dorling, M.; Zussman, J.
Univ. Manchester, Dep. Geol., Manchester, GBR
Mineralogical Magazine 49, Part 1: 350, 31-36p., 1985
Country of Publ.: United Kingdom
(cont. next page)

DIALOG File 89: GEOREF - 1785-1988/AUG (Copr. American Geological Institute)

ISSN: 0026-461X

20 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *minerals; *metamorphism; chain silicates; clin amphibole; temperature; nephrite; effects; chain silicates; clin amphibole; tremolite; amphibole group; silicates; richterite; TEM data; recrystallization; texture; preferred orientation

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1306809 85-41888

Experimentelle Untersuchungen zur Wirkung von Rohoel und Rohoel/Tensid-Gemischen im Oekosystem Wattenmeer; I, Einfuehrung und abiotische Parameter

Experimental investigations about effects of crude oil and dispersed crude oil in tidal flat environments; I, Introduction and abiotic parameters

Doerjes, J.

Forschunginst. Senckenberg, Abt. Meeresgeol. und Meeresbiol., Wilhelmshaven, DEU

Senckenbergiana Maritima 16: 1-6, 1-11p., 1984

Country of Publ.: Germany, Federal Republic of

ISSN: 0080-889X

CODEN: SBNGAI 2 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German Summary Languages: English

4 tables, sketch map

Latitude: N532500; N534500 Longitude: E0082200; E0080000

Descriptors: *West Germany; *sediments; environmental geology; geochemistry; pollution; pollutants; petroleum; experimental studies; Germany; Europe; Jade Bay; North Se; Atlantic Ocean; dispersion; tidal flats; textures; pH; temperature; Eh; coastal environment; grain size; salinit; crude oil

Section Headings: 22 (ENGINEERING & ENVIRONMENTAL GEOLOGY)
07 (MARINE GEOLOGY AND OCEANOGRAPHY)

1298840 85-29816

H and O isotope study of nephrite and related rocks from Hualien, Taiwan

Wang, C.; Yeh, H.

Hawaii Inst. Geophys., Honolulu, HI, USA

American Geophysical Union; 1980 fall meeting

Anonymous

American Geophysical Union; 1980 fall meeting, San Francisco, CA, United States, Dec. 8-12, 1980

Eos, Transactions, American Geophysical Union 61: 46, 115p., 1980

Country of Publ.: United States

ISSN: 0096-3941

CODEN: EOSTAU

Subfile: B

Doc Type: SERIAL; CONFERENCE PUBLICATION

Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *Taiwan; *isotopes; *metamorphic rocks; *hydrogen; *oxygen; *deuterium; geochemistry; composition; ratios; D/H; 0-18/0-16; nephrite; Asia; Hualien region; amphibole group; chain silicates; silicates; temperature; sea water; exploration

Section Headings: 02 (GEOCHEMISTRY)

1292582 85-26669

Changes in tidal inlet geometry due to backbarrier filling; East Friesian Islands, West Germany

FitzGerald, D. M.; Penland, S.; Nummedal, D.

Boston Univ., Dep. Geol., Boston, MA, USA; La. Geol. Surv.,

Coastal Geol. Prog., USA; La. State Univ., Dep. Geol., USA

Shore & Beach 52: 4, 3-8p., 1984

Country of Publ.: United States

ISSN: 0037-4237

CODEN: SHBEAS 25 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch maps

Descriptors: *West Germany; engineering geology; shorelines; Germany; Europe; East Friesian Islands; tidal inlets; changes; barrier islands; Eema River; Jade Bay; Nordernay

Section Headings: 22 (ENGINEERING & ENVIRONMENTAL GEOLOGY)

1285980 85-21063

Jade, gold, and topaz from the Cassiar Mountains, British Columbia/Yukon Territory, Canada

Grice, J. D.; Gault, R. A.

Natl. Mus. Nat. Sci., Miner. Sci. Div., Ottawa, ON, CAN

Rocks and Minerals 60: 1, 9-13p., 1985

Country of Publ.: United States

ISSN: 0035-7529

CODEN: ROCMAR 7 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch maps

Descriptors: *British Columbia; *Yukon Territory; *placers; economic geology; gold ores; gems; Canada; northwestern British Columbia; southwestern Yukon Territory; Cassiar Mountains; topaz; orthosilicates; silicates; jade; pyroxene group; chain silicates; Canadian Cordillera; crystals; mineral localities; collecting; popular geology

Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

1285192 85-18911

Propagation of surface waves in marine sediments

Essen, H. H.; Janle, H.; Schirmer, F.; Siebert, J.

Univ. Inst. Geophys., Hamburg 2000, DEU

Journal of Geophysics = Zeitschrift fuer Geophysik 49: 2,
115-122p., 1981

Country of Publ.: Germany, Federal Republic of

ISSN: 0340-062X

CODEN: JGEOD4 8 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 3 tables, sketch map

Latitude: N534200; N534200 Longitude: E0081000; E0081000

Descriptors: *West Germany; geophysical surveys; seismic
surveys; surface waves; propagation; velocity; marine
sediments; continental margin; seismograms; least-squares
analysis; statistical methods; group velocity; filters;
mathematical models; models; multilayer hydrologic systems;
geophysical profiles; Northwestern German Plain; North Sea;
Atlantic Ocean; elastic waves; sediments; oceanography;
earthquakes; statistical analysis; Germany; Europe; Jade Bay
Section Headings: 20 (GEOPHYSICS, APPLIED)

1273821 85-04877

The long green land, or rocking around New Zealand; Part two

Allred, C. W.

Lapidary Journal 38: 9, 1178-1185p., 1984

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6 7 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch map

Descriptors: *New Zealand; *minerals; mineralogy;
miscellaneous minerals; mineral localities; Australasia;
South Island; North Island; collecting; soapstone; jade;
pyroxene group; chain silicates; silicates; gold ores;
placers; schist; schists

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1273186 85-05501

**Metasomatit nefritonosnykh giperbazitovykh massivov
Vostochnogo Sayana****Metasomatic rocks of massifs with hyperbasites and nephrite
in Eastern Sayan**

Yakshin, I. S.

Sovetskaya Geologiya 1981: 3, 100-104p., 1981

Country of Publ.: Union of Soviet Socialist Republics

ISSN: 0038-5069

CODEN: SVGLA2 3 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Russian

illus., 7 anal., 2 tables, geol. sketch map

Latitude: N615500; N521000 Longitude: E1015000; E1011000

Descriptors: *USSR; *metasomatic rocks; petrology;
nephrite; ultramafics; amphibole group; chain silicates;
silicates; major elements; mobility; Eastern Sayan; Sayan;
igneous rocks

Section Headings: 05 (PETROLOGY, IGNEOUS AND METAMORPHIC)

1270607 85-09166

**Report on Minsa excursion to a deposit of Transvaal jade on
the 1st of November, 1981**

Wedepohl, A.

Quarterly News Bulletin - Geological Society of South Africa
= Kwartaallikse Nuusbuletin - Geologiese Vereniging van
Suid-Africa 24: 4, 20-22p., 1981

Country of Publ.: South Africa

ISSN: 0016-7657

CODEN: GSQNA7

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *South Africa; economic geology; gems; field
trips; mines; jade; pyroxene group; chain silicates;
silicates; Transvaal; Africa

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1269051 85-04915

**Barwa nefrytu i ametystu w swietle najnowszych badan
mineralogicznych****Color of nephrite and amethyst in the light of recent
mineralogic studies**

Heflik, W.; Natkaniec-Nowak, L.; Pitera, H.

Akad. Gorniczo-Hutniza, POL

Przeglad Geologiczny 30: 3, 119-121p., 1982

Country of Publ.: Poland

ISSN: 0033-2151

CODEN: PRZGAL 11 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Polish Summary Languages: English

illus.

Descriptors: *minerals; chain silicates; amphibole group;
framework silicates; silica minerals; nephrite; amethyst;
color; silicates; chain silicates, amphibole group;
framework silicates, silica minerals; iron; chromium;
mineralogy; geochemistry

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1258660 84-53499

Jade

Benzler, J. H.; Unbehaun, E.

Bodenkarte von Niedersachsen 1:25000; grundlagenkarte
(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Publ: Niedersaechs. Landesamt fuer Bodenforsch.
2615, 1 sheetp., 1982
Country of Publ.: Germany, Federal Republic of
Subfile: B
Doc Type: MAP Bibliographic Level: MONOGRAPHIC
Languages: English
1:25,000; colored soils map
Latitude: N531800; N532400 Longitude: E0082000; E0081000
Descriptors: *West Germany; *soils ; surveys ; maps;
Germany; Europe; soils maps; Jade
Section Headings: 25 .(SURFICIAL GEOLOGY, SOILS)

1256989 84-48813

An elusive jade hunt in Wyoming
Abramowitz, S.; Carlton, J.
Lapidary Journal 38: 6, 792-794p., 1984
Country of Publ.: United States
ISSN: 0023-8457
CODEN: LAJDA6
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Latitude: N420000; N420000 Longitude: W1070000; W1070000
Descriptors: *Wyoming ; economic geology ; gems; Fremont
County; United States; central Wyoming; jade; pyroxene group;
chain silicates; silicates; Jeffrey City; nephrite;
amphibole group; mineral localities; collecting; popular
geology
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1256132 84-48854

Field trip; Teton Jade
Spendlove, E.
Rock & Gem 14: 10, 20-22p., 1984
Country of Publ.: United States
ISSN: 0048-8453
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus., sketch map
Latitude: N430000; N430000 Longitude: W1110000; W1110000
Descriptors: *Idaho ; economic geology ; gems; Fremont
County; United States; eastern Idaho; Columbia Plateau; jad;
pyroxene group; chain silicates; silicates; Teton Jade;
mineral localities; collecting; popular geology
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1236362 84-27159

**Uvarovite and grossular from the Fengtien nephrite deposits,
eastern Taiwan**
Wan, H. M.; Yeh, C. L.
Ind. Technol. Res. Inst., Min. Res. and Serv. Organ.,
Taipei, TWN

Mineralogical Magazine 48, Part 1: 346, 31-37p., 1984
Country of Publ.: United Kingdom
ISSN: 0026-461X
16 REFS.
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus., 5 tables
Latitude: N224000; N232000 Longitude: E1220000; E1210000
Descriptors: *Taiwan; *minerals ; mineralogy;
orthosilicates; garnet group ; uvarovite; grossular; Asia;
silicates; orthosilicates, garnet group; Fengtien;
properties; mineral data; X-ray data; chemical composition;
trace elements; SEM data
Section Headings: 05 .(PETROLOGY, IGNEOUS AND METAMORPHIC)

1236197 84-30517

A field trip to Trinity County
Stein, E.
Lapidary Journal 38: 1, 46, 48p., 1984
Country of Publ.: United States
ISSN: 0023-8457
CODEN: LAJDA6
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
sketch map
Latitude: N400000; N410000 Longitude: W1220000; W1230000
Descriptors: *California; *reptiles; *minerals; *placers ;
economic geology; gold ores; dinosaurs; miscellaneous
minerals ; platinum ores; occurrence; mineral localities;
United States; Northern California; Trinity County; Pacific
Coast; Trinity River; Big Bar; jade; pyroxene group; chain
silicates; silicates; mineralogy; La Grange Mine; Trinity Da;
Trinity National Forest; Reptilia; rhodonite; serpentine;
sheet silicates; bornite; sulfides; framework silicates;
feldspar group; popular geology; collecting; cinnabar;
calcite; carbonates; Union Creek; stream placers
Section Headings: 27 .(ECONOMIC GEOLOGY, METALS)

1221048 84-16737

More about California's blue jade
Ozuna, G.
Hobbit Jade Mines, Carmel, CA, USA
Jewelry Making Gems & Minerals 555, 10-11, 13p., 1984
Country of Publ.: United States
ISSN: 0274-8193
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Latitude: N360000; N360000 Longitude: W1210000; W1210000
Descriptors: *California; *minerals ; economic geology;
(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

chain silicates ; gems; jade; Monterey County; United State;
western California; Pacific Coast; silicates; properties;
color: blue; popular geology; collecting; Hobbit Mine;
mineral localities; pyroxene group
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1217416 84-08637

Jade

Black, P.

Geol. & Min. Mus., Sydney, N.S.W., AUS

Australian Gem & Treasure Hunter 85, 8-10p., 1983

Country of Publ.: Australia

ISSN: 0159-6322

3 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 1 table

Descriptors: *minerals ; chain silicates ; jade; silicate;
pyroxene group; jadeite; nephrite; amphibole group; chain
silicates, clinoamphibole; chain silicates, clinopyroxene;
properties; color; identification; popular geology;
collecting; occurrence

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1210272 84-03741

Gem materials, natural and artificial

Sunagawa, I.

Tohoku Univ., Inst. Mineral., Petrol., Econ. Geol., Aoba,
Sendai 980, JPN

Current Topics in Materials Science 10, 353-497p., 1982

Country of Publ.: Netherlands

ISSN: 0165-1854

137 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

A brief review of mechanisms of crystalline growth and
morphology. Application to the diamond, emerald, ruby,
sapphire, chrysoberyl, spinel, olivine, garnet, and materials
from the silica family.

Descriptors: *gems ; properties ; crystal form;
bibliographic review; diamond; native elements and alloys;
emerald; ring silicates; silicates; rubies; sapphire; oxide;
spinel; chrysoberyl; olivine; olivine group; orthosilicate;
garnet group; zircon; quartz; silica minerals; framework
silicates; chalcedony; agate; opal; turquoise; phosphates;
malachite; carbonates; jade; pyroxene group; chain silicate;
rhodochrosite; crystal growth; synthetic materials; economic
geology; minerals; natural materials

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1210061 84-03733

Mitalie jade deposit

Scott, D. C.

S. Aust. Dep. Mines Energy, AUS

Mineral Resources Review - South Australia Department of
Mines and Energy 152, 19-22p., 1980

Country of Publ.: Australia

ISSN: 0026-525X

CODEN: MRSRAK 5 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 1 table, geol. sketch maps

Latitude: S330000; S330000 Longitude: E1360000; E1360000

Descriptors: *South Australia; *minerals ; economic geology
chain silicates; clinoamphibole ; gems; nephrite; Australia;
southern South Australia; jade; pyroxene group; silicates;
Mitalie Deposit; Eyre Peninsula; Cowell; amphibole group;
marbles; Hutchison Group; Proterozoic; Precambrian;
tremolite; chain silicates, clinoamphibole; Jervois County;
Cleve Uplands; crystals; zoning

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1210052 84-00007

Comparative study of world-wide jadeites and nephrites

Rizzo, J. G.

Montclair State College, Montclair, NJ, USA

unknownp., 1982

Degree Level: Master's

Country of Publ.: United States

Subfile: B

Doc Type: THESIS Bibliographic Level: MONOGRAPHIC

Languages: English

Descriptors: *minerals; *gems; *metamorphism; *paragenesis
; chain silicates; clinopyroxene; clinoamphibole; properties;
P-T conditions ; jadeite; nephrite; jade; global; chain
silicates, clinopyroxene; pyroxene group; silicates; chain
silicates, clinoamphibole; amphibole group; classification;
pseudo-jade; mineral assemblages; petrology; chemical
composition; physical properties; hardness; color; X-ray dat;
mineral data

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1206756 84-00149

**K voprosu ob usloviyakh obrazovaniya nefrita
Conditions for genesis of nephrite**

Sekerin, A. P.

Eksped. Baykalkvartsamotsvet'yl, Irkutsk, SUN

Izvestiya Akademii Nauk SSSR. Seriya Geologicheskaya 1979: ,
90-96p., 1979

Country of Publ.: Union of Soviet Socialist Republics

ISSN: 0321-1703

CODEN: IANGA3 6 REFS.

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Russian

2 tables, geol. sketch map

Descriptors: *minerals; *crystal growth; chain silicates;
clinoamphibole; nephrite; chain silicates, clinoamphibole;
amphibole group; silicates; genesis; X-ray data
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1205463 83-59262

Wyoming jade

Madson, M. E.

Bendix Field Eng. Corp., Grand Junction, CO, USA

Rocks and Minerals 58: 5, 218-222p., 1983

Country of Publ.: United States

ISSN: 0035-7529

CODEN: ROCMAR 13 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Wyoming issue, illus., sketch map

Descriptors: *Wyoming; *minerals; economic geology; chain
silicates; clinoamphibole; gems; nephrite; United States;
chain silicates, clinoamphibole; amphibole group; silicates;
jade; pyroxene group; exploration; history; popular geolog;
hardness; tremolite; veins; schists; wallrock alteration;
metasomatism; ornamental materials; utilization
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1205462 83-58965

Field guide to some common rocks and minerals of Wyoming

Hausel, W. D.; Albert, K.

Geol. Surv. Wyo., Laramie, WY, USA

Rocks and Minerals 58: 5, 212-217p., 1983

Country of Publ.: United States

ISSN: 0035-7529

CODEN: ROCMAR 9 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Wyoming issue, illus., sketch maps

Descriptors: *Wyoming; economic geology; mineral resource
United States; copper ores; feldspar deposits; bentonite
deposits; asbestos deposits; anorthosite; gabbro family; iron
ores; fluorspar; diamonds; gems; pyrope; garnet group;
orthosilicates; silicates; diopside; pyroxene group; chain
silicates; jade; nephrite; amphibole group; resources;
uranium ores; quartz crystal; trona; carbonates; refractory
materials

Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

1204205 83-58888

The Alaskan mineral resource assessment program; background
information to accompany folio of geologic and mineral
resource maps of the Ambler River Quadrangle, AlaskaMayfield, C. F.; Tailleux, I. L.; Albert, N. R. D.;
Eilersieck, I.; Grybeck, D.; Hackett, S. W.

U. S. Geol. Surv., USA

Geological Survey Circular 0793, 31p., 1983

Country of Publ.: United States

ISSN: 0364-6017

CODEN: XICIA5 200 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: MONOGRAPHIC

Languages: English

6 tables, sketch maps

The mineral-resource potential of the Ambler River
Quadrangle, Alaska, has been assessed by an interdisciplinary
research team. Eleven maps provide information on the geology,
reconnaissance geochemistry, aeromagnetism, Landsat imagery,
and mineral-resource evaluation. A report provides a summary
of the geologic history, radiometric dates, and fossil
localities, and includes a comprehensive bibliography. The
Ambler River Quadrangle contains jade reserves, now being
mined, and potentially significant resources of copper, zinc,
lead, and silver.

Latitude: N670000; N680000 Longitude: W1560000; W1590000

Descriptors: *Alaska; economic geology; mineral resource;
USGS; United States; Ambler River Quadrangle; bibliography;
explanatory text; geochemical methods; geophysical surveys;
remote sensing; economic evaluation; resources; copper ore;
zinc ores; lead ores; silver ores; jade; pyroxene group;
chain silicates; silicates; gems

Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

1198097 83-54954

Jade hunting in New Zealand

Day, E.

Lapidary Journal 37: 5, 726-735p., 1983

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch maps

Descriptors: *New Zealand; *minerals; economic geology;
chain silicates; clinoamphibole; gems; nephrite;
Australasia; jade; pyroxene group; silicates; popular
geology; collecting; South Island; Cascades; Wanama; Westlan;
Wakatipu; D'Urville Island; Nelson; Picton; amphibole group;
chain silicates, clinoamphibole

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

1198095 83-54943
Australia's black jade
Bancroft, P.
Lapidary Journal 37: 5, 700, 702-703, 706-709, 714-715p., 1983
Country of Publ.: United States
ISSN: 0023-8457
CODEN: LAJOA6 16 REFS.
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus., sketch maps
Latitude: S343000; S333000 Longitude: E1373000; E1363000
Descriptors: *South Australia; *minerals; economic geology; chain silicates; gems; jade; Australia; pyroxene group; silicates; popular geology; collecting; nephrite; amphibole group; jadeite
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1198094 83-55000
Iron in gems
Zeitner, J. C.
Lapidary Journal 37: 5, 684-685, 688, 690-692p., 1983
Country of Publ.: United States
ISSN: 0023-8457
CODEN: LAJOA6
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Descriptors: *minerals; *gems; mineral data; resources; iron minerals; popular geology; collecting; color; hematite; oxides; goethite; marcasite; sulfides; pyrite; staurolite; enstatite; pyroxene group; chain silicates; silicates; nephrite; amphibole group; californite; andradite; garnet group; orthosilicates; peridot; olivine group; olivine; bronzite; hypersthene; vivianite; phosphates; turquoise; beryl; ring silicates
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1188326 83-40894
A jade update from British Columbia
Leaming, S.
Lapidary Journal 37: 2, 384-386p., 1983
Country of Publ.: United States
ISSN: 0023-8457
CODEN: LAJOA6
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Descriptors: *British Columbia; *minerals; mineralogy; chain silicates; amphibole group; jade; Canada; pyroxene group; silicates; chain silicates, amphibole group; collecting; popular geology

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)
1182097 83-40352
Arizona black jade
Abbott, E.
Rock & Gem 13: 6, 70-75p., 1983
Country of Publ.: United States
ISSN: 0048-8453
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Latitude: N335000; N344000 Longitude: W1090000; W1113500
Descriptors: *minerals; *Arizona; chain silicates; clin amphibole; economic geology; nephrite; gems; United States; central Arizona; mineralogy; chain silicates, clin amphibole; amphibole group; silicates; black jade; collecting; mineral localities; popular geology; Mogollon Rim; Colorado Plateau; diabase; basalt family; sills; intrusions; epidote; epidote group; orthosilicates; reserve; mines
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1172636 83-29438
The West; and home by the Trans Australian; Part 1
McLaughlin, A.
Australian Gem & Treasure Hunter Year Book 76, 86-89p., 1983
Country of Publ.: Australia
ISSN: 0159-6446
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus., 2 plates
Descriptors: *Western Australia; *South Australia; *minerals; economic geology; mineralogy; occurrence; gold ores; miscellaneous minerals; mineral localities; Australia; mine; Kalgoorlie region; Norseman region; jade; pyroxene group; chain silicates; silicates; marble deposits; Coolgardie; pegmatite; granite-granodiorite family; opal; silica minerals; framework silicates
Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

1167236 83-20141
Chatoyant jade; a new find
Hemrich, G. I.
Jewelry Making Gems & Minerals 543, 8, 14p., 1983
Country of Publ.: United States
ISSN: 0274-8193
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
Descriptors: *California; *minerals; mineralogy; chain silicates; amphibole group; nephrite; United States; Jade
(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Cove; jade; pyroxene group; silicates; chain silicates.
amphibole group; chatoyant jade; popular geology
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1150179 83-05424

Sagebrush, antelope and jade

Spendlove, E.

Jewelry Making Gems & Minerals 537, 10, 14, 26-29p., 1982

Country of Publ.: United States

ISSN: 0274-8193

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 1 plate, sketch map

Latitude: N420000; N420000 Longitude: W1080000; W1080000

Descriptors: *Wyoming; *minerals; mineralogy; chain
silicates; jade; Fremont County; United States; silicates;
pyroxene group; Lander; occurrence; collecting; popular
geology; Basin and Range Province; Graham Ranch Quadrangle
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1149388 83-05412

Zum "Stein des Jahres"; Floete aus Jade

The "rock-of-the-year"; a jade flute

Schroedter, G.

Der Aufschluss 26: 4-5, 184-185p., 1975

Country of Publ.: Germany, Federal Republic of

ISSN: 0004-7856

CODEN: AFSLAD 5 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German

Descriptors: *minerals; chain silicates; jade; pyroxene
group; silicates; flutes; utilization; popular geology
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1146856 83-04802

Gemstones; gemstone industry working party

Anonymous

Mineral Industry Quarterly 25, 22-23p., 1982

Country of Publ.: Australia

ISSN: 0313-6086

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *South Australia; economic geology; gems;
Australia; mining; opal; silica minerals; framework
silicates; silicates; jade; pyroxene group; chain silicates
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1144821 83-00152

Lone Ranch jade

Heflin, E.

Rock & Gem 7: 5, 16-20, 88-89p., 1977

Country of Publ.: United States

ISSN: 0048-8453

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Oregon; *minerals; mineralogy; chain
silicates; amphibole group; jade; United States; Curry
County; Lone Ranch; pyroxene group; silicates; chain
silicates; amphibole group; collecting; popular geology
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1144741 83-00289

New Zealand greenstone

Moulton, B.

Lapidary Journal 30: 9, 2184p., 1976

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJ0A6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *New Zealand; *minerals; mineralogy; chain
silicates; jade; Australasia; popular geology; silicates;
pyroxene group; collecting
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1144604 83-00044

Unusual jade-like quartz from Georgia

Boatwright, C.

Rocks and Minerals 51: 1, 20-21p., 1976

Country of Publ.: United States

ISSN: 0035-7529

CODEN: ROCMAR

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Georgia; *minerals; mineralogy; framework
silicates; silica minerals; quartz; Cobb County; United
States; silicates; green quartz; popular geology; collectin;
framework silicates, silica minerals
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1142891 82-61580

Uprugiye svoystva nekotorykh kamney-samotsvetov

Elastic properties of certain gems

Boguslavskiy, M. Y.; Genkin, Y. Y.

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Vyssh. Uchebn. Zaved., Izv., Geol. Razved. 1978: 8, 170-17
p., 1978

Country of Publ.: Union of Soviet Socialist Republics

ISSN: 0016-7762

CODEN: IVUGAF

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Russian

1 table

Descriptors: *gems ; properties ; elastic properties;
nephrite; amphibole group; chain silicates; silicates;
rhodonite; chalcedony; silica minerals; framework silicate;
jasper; agate; obsidian; pyroclastics and glasses;
serpentine; sheet silicates

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1141183 82-57350

Jade beyond the Arctic Circle

Proctor, W. O.

Lapidary Journal 31: 2, 598-604p., 1977

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Alaska; *minerals ; mineralogy; chain
silicates; amphibole group ; jade; United States; northern
Alaska; chain silicates, amphibole group; pyroxene group;
silicates; collecting; popular geology

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1141165 82-57347

Bagging those elusive "botrys"

Phillips, L. D.

Lapidary Journal 31: 3, 734-749p., 1977

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *California; *minerals ; mineralogy; chain
silicates; amphibole group ; jade; Mendocino County; United
States; chain silicates, amphibole group; botryoidal texture;
collecting; popular geology; pyroxene group; silicates

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1141152 82-57310

Wyoming jade

MacFall, R. P.

Lapidary Journal 30: 1, 182-194p., 1976

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6 2 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Wyoming; *minerals ; mineralogy; chain
silicates; amphibole group ; jade; United States; collectin;
pyroxene group; silicates; popular geology; chain silicates,
amphibole group

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1141140 82-57365

Where the white nephrite is

Rodman, D. G.

Lapidary Journal 30: 2, 644-645p., 1976

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *minerals ; chain silicates; clinoamphibole
; white nephrite; chain silicates, clinoamphibole; collectin;
occurrence; popular geology

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1141127 82-57421

The big jade from Big Sur

Wobber, D.

Lapidary Journal 30: 3, 780-786p., 1976

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *California; *minerals ; mineralogy; chain
silicates; amphibole group ; jade; United States; Big Sur;
collecting; popular geology; pyroxene group; silicates;
chain silicates, amphibole group

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1141126 82-57392

Ancient Maya jade deposits rediscovered

Swezey, W. R.

Lapidary Journal 30: 3, 742-747p., 1976

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Guatemala; *minerals ; mineralogy; chain
silicates; amphibole group ; jade; Central America; popular
geology; archaeology; artifacts; Maya jade; pyroxene group;
silicates; chain silicates, amphibole group; collecting
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1141077 82-57346

Monterey jade

Pfefer, J.

Lapidary Journal 31: 8, 1842-1847p., 1977

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *California; *minerals ; mineralogy; chain
silicates; amphibole group ; jade; Monterey County; United
States; Monterey; chain silicates, amphibole group;
collecting; popular geology; pyroxene group; silicates
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1137618 82-56691

**Structural controls of the Fengtien nephrite deposits,
Taiwan**

Li-ping Tan; Shiahn-jauh Chen; Tien-when Lo

Proceedings of the National Science Council, Republic of
China = Yanjiu GHuikan Uojia Kexue Weiguan-hui 5: 3, 173-18p.,
1981

Country of Publ.: Taiwan, Province of

ISSN: 0250-1643

10 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 1 table, geol. sketch map, sect.

Latitude: N233000; N243000 Longitude: E1214500; E1210000

Descriptors: *Taiwan; *mineral deposits; *genesis ; economic
geology; talc deposits ; structural controls; nephrite;
amphibole group; chain silicates; silicates; serpentinite;
metigneous rocks; metasomatic rocks; ore bodies; Asia;
mineral deposits, genesis; Fengtien
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1134939 01134939

Sourdough rockhounding

Schoonover, M.

Chugach Gem. Miner. Soc., Anchorage, AK, USA

Lapidary Journal 18: 1, 164-169p., 1964

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Alaska; *minerals ; mineralogy; miscellaneous
minerals ; occurrence; United States; collecting; popular
geology; agate; silica minerals; framework silicates;
silicates; quartz; concretions; secondary structures;
sedimentary structures; jade; pyroxene group; chain
silicates; fossil ivory; diorite; diorite family; ammonoid;
Ammonoidea; Cephalopoda; Mollusca; fossil wood
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1134934 01134934

Jade occurrences in North America

Bergsten, L. J.

Lapidary Journal 18: 1, 124-128p., 1964

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

sketch map

Descriptors: *North America; *minerals; *California;
*Wyoming; *Alaska; *Yukon Territory; *British Columbia ;
mineralogy; chain silicates ; occurrence; silicates; nephrit;
amphibole group; jadeite; pyroxene group; collecting;
popular geology; United States; Canada; Pacific Coast; Basin
and Range Province

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1131073 82-51537

**Tectonic conditions for the formation of the jadeite fields
of the Balkhash region and the Polar Urals**

Kovalenko, I. V.; Sviridenko, A. F.

Moscow University Geology Bulletin 36: 5, 46-52p., 1981

Country of Publ.: United States

ISSN: 0145-8752

CODEN: MUGBD4 13 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Note: Translated from Vestn. Mosk. Univ., Geol., Vol. 36,
No. 5, p. 52-59, 1981, geol. maps

Descriptors: *USSR; *mineral deposits; *genesis ; economic
geology; gems ; structural controls; Polar Urals; Balkhash
region; Eastern Kazakhstan; jadeite; pyroxene group; chain
silicates; silicates; jade; faults; mineral deposits, genesis
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

1130972 82-47574

Cups of amethyst, cups of jade

McFall, R.

Environment Southwest 497, 18-19p., 1982

Country of Publ.: United States

ISSN: 0375-6300

CODEN: ENSOAV

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *minerals; *museums; silicates; mineralogy;
occurrence; San Diego Natural History Museum; jade;
pyroxene group; chain silicates; amethyst; silica minerals;
framework silicates; framework silicates, silica minerals;
collections; chain silicates, amphibole group; popular
geology

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1130750 01130750

The gemstones of Russia

Victor, G. (TRANSLATOR)

Lapidary Journal 18: 12, 1296-1301p., 1965

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *USSR; *minerals; economic geology;
miscellaneous minerals; gems; occurrence; popular geology;
collecting; sapphire; oxides; ruby; rhodonite; chain
silicates; silicates; amethyst; silica minerals; framework
silicates; emerald; ring silicates; nephrite; amphibole group;
topaz; orthosilicates; aquamarine; garnet group

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1130745 82-47511

The Great Lakes and Flint Ridge areas

Emmer, J.

Lapidary Journal 29: 9, 1624, 1626, 1628, 1630, 1632, 1650,
1652p., 1975

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6 5 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

2 plates

Descriptors: *Michigan; *Ohio; *Great Lakes region;
*minerals; mineralogy; silicates; occurrence; United State;
collecting; popular geology; fossils; Flint Ridge; North
America; jade; pyroxene group; chain silicates; flint;
chemically precipitated rocks; agate; silica minerals;

framework silicates

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1129366 82-48025

Nowy zespół mineralny w leukokratycznej strefie Jordanowa k. Sobotki i jego znaczenie genetyczne**A new mineral-bearing massif in the leucocratic zone of Jordanow near Sobotka; a genetic interpretation**

Lis, J.; Sylwestrzak, H.

Przeglad Geologiczny 29: 2, 67-72p., 1981

Country of Publ.: Poland

ISSN: 0033-2151

CODEN: PRZGAL 27 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Polish Summary Languages: English

Latitude: N493900; N493900 Longitude: E0195000; E0195000

Descriptors: *Poland; *magmas; petrology; composition;
mineral composition; nephrite; amphibole group; chain
silicates; silicates; serpentinite; metaigneous rocks;
metasomatic rocks; granitic composition; Lower Silesia;
Polish Carpathians; Europe; leucocratic rocks

Section Headings: 05 (PETROLOGY, IGNEOUS AND METAMORPHIC)

1128419 82-47538

Gem minerals from Taiwan

Huang, C. K.

Gemmol. Soc. Jap., J. 7: 2, 3-12p., 1980

Country of Publ.: Japan

ISSN: 0385-5090

CODEN: HOGAD6 18 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Japanese Summary Languages: English

illus., 6 tables

Descriptors: *Taiwan; *minerals; mineralogy; chain
silicates; clinoamphibole; framework silicates; silica
minerals; nephrite; chalcedony; Asia; gems; chain silicates;
clinoamphibole; framework silicates, silica minerals;
amphibole group; silicates; tremolite; crystal structure

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1115430 82-37327

The gems and minerals of Mexico

Castro, K. M.; Castro, D.

Jewelry Making Gems & Minerals 530, 26-33, 50-51p., 1981

Country of Publ.: United States

ISSN: 0274-8193

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Note: Part Two of a series; publication data for Part One
(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

not given in this issue. illus.

Descriptors: *Mexico; *minerals ; economic geology;
miscellaneous minerals ; gems; collecting; North America;
popular geology; quartz; silica minerals; framework
silicates; silicates; onyx; calcite; carbonates; danburite;
silver; artifacts; jade; pyroxene group; chain silicates;
opal; amber; organic compounds; shells

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1111835 82-32274

Collecting gemstones in Wyoming

Cooke, C.

Lapidary Journal 36: 1, 228-234p., 1982

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch maps

Descriptors: *Wyoming; *intrusions; *Pisces; *Reptilia ;
economic geology; pipes; occurrence; dinosaurs ; gems;
kimberlite; Eocene; Mesozoic; United States; Great Plains;
North America; Basin and Range Province; fossil wood;
invertebrates; bones; agate; silica minerals; framework
silicates; silicates; chalcedony; jade; pyroxene group; chain
silicates; Paleogene; Tertiary; Phanerozoic; popular geology;
collecting; nephrite; amphibole group; diamonds; ultramafic
family

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1110787 82-26834

White nephrite

Ball, R. A.; Hennessy, L.

The Australian Gemmologist 14: 9, 228-229p., 1982

Country of Publ.: Australia

ISSN: 0004-9174

CODEN: AGMLB2 5 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *minerals; *crystal structure ; chain silicate
clinoamphibole ; nephrite; chain silicates, clinoamphibole;
amphibole group; silicates; gems

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1108819 82-32271

Chemical formula and condition of formation of the Taiwan
Nephrite

Chen, C.

Cent. Geol. Surv., MOEA, Taipei, TWN

Ti-Chih-Dizhi 2, 57-68p., 1979

Country of Publ.: Taiwan, Province of

ISSN: 0303-092X

15 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Chinese Summary Languages: English

illus., 1 anal., 2 tables

Descriptors: *Taiwan; *minerals ; economic geology; chain
silicates; clinoamphibole ; gems; nephrite; Asia; chain
silicates, clinoamphibole; amphibole group; silicates;
chemical composition; P-T conditions

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1105850 82-26550

Nephrite jade in the Republic of Korea

Nieder, A. E.

Lapidary Journal 35: 12, 2374-2380p., 1982

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Korea ; economic geology ; gems; jade;
pyroxene group; chain silicates; silicates; nephrite;
amphibole group; South Korea; Asia

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1101634 82-26535

Minerals in depth; contact metamorphics; Part 3

Jones, B.

Rock & Gem 12: 1, 40-47, 78p., 1982

Country of Publ.: United States

ISSN: 0048-8453

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *minerals; *gems ; chain silicates; resources
; jade; silicates; pyroxene group; jadeite; nephrite;
amphibole group; tremolite; actinolite; popular geology;
collecting; history; thulite

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1101632 82-26571

The many levels of rockhounding

Trout, P. W.

Rock & Gem 12: 1, 16-19p., 1982

Country of Publ.: United States

ISSN: 0048-8453

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Languages: English
illus.

Descriptors: *minerals; *gems ; miscellaneous minerals;
exploration ; collecting; popular geology; chrysocolla;
sheet silicates; silicates; quartz; silica minerals;
framework silicates; agate; jade; pyroxene group; chain
silicates; feldspar group; malachite; carbonates
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1100712 82-26523

Glamorous Jade Cove

Catlin, M. F.

Lapidary Journal 35: 11, 2188, 2190-2192p., 1982

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *California ; economic geology ; gems;
Monterey County; Jade Cove; United States; Los Padres
National Forest; jade; pyroxene group; chain silicates;
silicates; popular geology; collecting

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1097261 82-15518

Nephrite in Washington

Ream, L.

Lapidary Journal 29: 9, 1748-1757p., 1975

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6 6 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Washington; *minerals ; mineralogy; chain
silicates; clinoamphibole ; nephrite; Snohomish County;
Skagit County; United States; popular geology; amphibole
group; silicates; chain silicates, clinoamphibole; collecting

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1087311 01087311

Cylinder seal mineralogy and petrology

Berry, R. W.

Univ. Baghdad, Baghdad, IRQ

Geol. Soc. Iraq, J. 1: 1, 18-22p., 1968

Country of Publ.: Iraq

ISSN: 0533-8301

CODEN: GSIJAN

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Middle East ; stratigraphy ; archaeology;
hornfels; metamorphic rocks; schists; steatite; soapstone;
jadeite; pyroxene group; chain silicates; silicates; jade;
marbles; quartz diorite; diorite family; limestone;
carbonate rocks; sandstone; clastic rocks; chert; chemically
precipitated rocks; lapis lazuli; quartz; silica minerals;
framework silicates; identification; techniques; artifacts;
hardness; Mesopotamia; textures; cylinder seals; properties;
Holocene; Quaternary; Iraqi Museum
Section Headings: 12 .(STRATIGRAPHY, HISTORICAL GEOLOGY)

1086674 82-10456

Mineralogiya i genezis nefritov SSSR**Mineralogy and genesis of nephrites in the USSR**

Suturin, A. N.; Zamaletdinov, R. S.; Letnikov, F. A.;
Sekerin, A. P.; Burmakina, G. V.; Suturina, T. A.; Platonov,
A. N.; Belichenko, V. P.; Vokhmintsev, A. Y.

Samotsvety**Gem minerals**

Sidorenko, A. V. (EDITOR)

XI s'ezda Mezhdunarodnaya Mineralogicheskaya Assotsiatsiya,
Novosibirsk, Union of Soviet Socialist Republics, Sept.

4-10, 1978

Publ: Nauka

87-97p., 1980

Country of Publ.: Union of Soviet Socialist Republics

7 REFS.

Subfile: B

Doc Type: BOOK; CONFERENCE PUBLICATION

Bibliographic Level: ANALYTIC

Languages: Russian Summary Languages: English

illus., 3 tables

Descriptors: *USSR; *minerals; *crystal chemistry ; economic
geology; chain silicates; clinoamphibole ; gems; nephrite;
chain silicates, amphibole group; amphibole group; silicate;
color; spectra; chemical composition; genesis

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1086663 82-10396

Samotsvety**Gem minerals**

Sidorenko, A. V. (EDITOR)

XI s'ezda Mezhdunarodnaya Mineralogicheskaya Assotsiatsiya,
Novosibirsk, Union of Soviet Socialist Republics, Sept.

4-10, 1978

Publ: Nauka

150p., 1980

Country of Publ.: Union of Soviet Socialist Republics

Subfile: B

Doc Type: BOOK; CONFERENCE PUBLICATION

Bibliographic Level: MONOGRAPHIC

Languages: Russian

Note: Individual papers are cited separately, illus.
(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Descriptors: *symposia; *gems; economic geology; resources; inclusions; synthetic materials; genesis; emerald; ring silicates; silicates; nephrite; amphibole group; chain silicates; turquoise; phosphates; moldavite; tektites; bery; corundum; oxides; chalcedony; silica minerals; framework silicates; pegmatite; granite-granodiorite family
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1086655 82-10437

A rockhound's trip to British Columbia

Pepper, S. J.

Lapidary Journal 35: 8, 1704-1708p., 1981

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English
illus.

Descriptors: *British Columbia; economic geology; gems; Canada; collecting; jade; pyroxene group; chain silicates; silicates; Lillooet; Fraser River; Hope; popular geology
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1084705 82-10407

Carbonate minerals in relation to nephrite deposits, Fengtien area, Hualien

Chen, C.

Natl. Cheng Keng Univ., Dep. Earth Sci., Taiwan, TWN; East Carolina Univ., Dep. Geol., USA

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

Tan, L.; Lee, C. W.; Chen, C.; Tien, P.; Tsui, P.; Yui, T.

Natl. Taiwan Univ., Dep. Geol., Taipei, TWN

NSC Special Publication 1, 70-p., 1978

Country of Publ.: Taiwan, Province of

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 14 anal., 1 table

Latitude: N230000; N240000 Longitude: E1220000; E1213000

Descriptors: *Taiwan; *calcium; *minerals; *barium; *iron; *manganese; *strontium; *silicon; economic geology; geochemistry; carbonates; gems; Asia; nephrite; amphibole group; chain silicates; silicates; accessory minerals; calcite; dolomite; aragonite; magnesite; genesis; Fengtie; Hualien; magnesium; spectra

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1084704 82-10433

Minerals associated with the nephrite in the Fengtien area, Hualien, Taiwan

Lee, C. W.; Tien, P.; Yui, T.

Natl. Taiwan Univ., Dep. Geol., Taipei, TWN; East Carolina

Univ., Dep. Geol., USA

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

Tan, L.; Lee, C. W.; Chen, C.; Tien, P.; Tsui, P.; Yui, T.

Natl. Taiwan Univ., Dep. Geol., Taipei, TWN

NSC Special Publication 1, 42-69p., 1978

Country of Publ.: Taiwan, Province of

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 12 tables

Latitude: N230000; N240000 Longitude: E1220000; E1213000

Descriptors: *Taiwan; *metamorphic rocks; *paragenesis; economic geology; gems; composition; accessory minerals; Asia; X-ray data; schists; metasedimentary rocks; serpentinite; metaigneous rocks; metasomatic rocks; diopsidefels; chemical composition; serpentine; sheet silicates; silicates; pyrochlorite; magnetite; oxides; diopside; pyroxene group; chain silicates; nephrite; amphibole group; garnet group; orthosilicates; vesuvianite; epidote; epidote group; tremolite; clinozoisite; zoisite; sanidine; feldspar group; framework silicates
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1084703 82-10458

Trace elements and color of the Fengtien nephrite, Taiwan

Tan, L.; Tsui, P.

Natl. Taiwan Univ., Dep. Geol., Taipei, TWN; East Carolina Univ., Dep. Geol., USA

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

Tan, L.; Lee, C. W.; Chen, C.; Tien, P.; Tsui, P.; Yui, T.

Natl. Taiwan Univ., Dep. Geol., Taipei, TWN

NSC Special Publication 1, 29-41p., 1978

Country of Publ.: Taiwan, Province of

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., 53 anal., 1 table

Latitude: N230000; N240000 Longitude: E1220000; E1213000

Descriptors: *Taiwan; *minerals; *cobalt; *chromium; *copper; *iron; *manganese; *nickel; *titanium; *vanadium; economic geology; chain silicates; amphibole group; geochemistry; gem trace elements; Asia; chain silicates, amphibole group; nephrite; silicates; color; spectra; Fengtien; Hualien
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1084702 82-10457

Mineralogy of the nephrite in the Fengtien area, Hualien, Taiwan

Tan, L. P.; Lee, C. W.; Tien, P.

Natl. Taiwan Univ., Dep. Geol., Taipei, TWN; East Carolina Univ., Dep. Geol., USA

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

Tan, L.; Lee, C. W.; Chen, C.; Tien, P.; Tsui, P.; Yui, T.
Natl. Taiwan Univ., Dep. Geol., Taipei, TWN
NSC Special Publication 1, 1-28p., 1978
Country of Publ.: Taiwan, Province of
Subfile: B
Doc Type: SERIAL; MAP Bibliographic Level: ANALYTIC
Languages: English
illus., 8 tables, geol. sketch map; 1:8000; colored geol. map

Latitude: N230000; N240000 Longitude: E1220000; E1213000
Descriptors: *Taiwan; *minerals; *crystal structure ;
economic geology; chain silicates; amphibole group; gems;
nephrite; Asia; chain silicates, amphibole group; tremolit;
silicates; inclusions; genesis; occurrence; density;
hardness; optical properties; Fengtien; Hualien; economic;
reserves; production; chemical composition; cell dimension;
X-ray data; electron probe data
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1084701 82-10394

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

Tan, L.; Lee, C. W.; Chen, C.; Tien, P.; Tsui, P.; Yui, T.
Natl. Taiwan Univ., Dep. Geol., Taipei, TWN
NSC Special Publication 1, 81p., 1978
Country of Publ.: Taiwan, Province of
56 REFS.
Subfile: B
Doc Type: SERIAL Bibliographic Level: MONOGRAPHIC
Languages: English
Note: Individual papers are cited separately. 22 tables
Latitude: N230000; N240000 Longitude: E1220000; E1213000
Descriptors: *Taiwan; *minerals ; economic geology; chain
silicates; amphibole group ; gems; nephrite; Asia; chain
silicates, amphibole group; silicates; Fengtien; Hualien
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1082622 82-05392

The gemstones of Russia

Goldstein, A. D.
Goldstein Imports, Great Neck, NY, USA
Jewelry Making Gems & Minerals 528, 16-19p., 1981
Country of Publ.: United States
ISSN: 0274-8193
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
1 plate, sketch map
Descriptors: *USSR; *minerals ; economic geology;
miscellaneous minerals ; gems; distribution; occurrence;
nephrite jade; charoite; citrine; lapis lazuli; aquamarin;
amethyst; silica minerals; framework silicates; silicates;

popular geology

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1081802 82-00117

Untersuchungen rezenter und fossiler Sedimente, von Erdoelen, Bitumen und Kohlen mit Hilfe der Verdampfungs - Gaschromatographie

Studies on Recent and fossil sediments, petroleum, bitumens
and coal with the aid of evaporation gas chromatography

Georgaras, K.
Tech. Univ. Clausthal, Fak. Nat.- und Geisteswiss,
Clausthal, DEU
134p., 1974

Degree Level: Doctoral

Country of Publ.: Germany, Federal Republic of
53 REFS.

Subfile: B

Doc Type: THESIS Bibliographic Level: MONOGRAPHIC

Languages: German

illus., 12 tables

Latitude: N532000; N533000 Longitude: E0082000; E0080000

Descriptors: *sedimentary rocks; *organic materials;
*chemical analysis; *West Germany; *Spain ; geochemistry;
analysis; methods ; gas chromatography; sediments;
hydrocarbons; coal; organic residues; bitumens; infrared
spectra; chromatograms; Jade Bay; Germany; Europe; Ares Ba;
Sada; northwestern Spain; Galicia; La Coruna
Section Headings: 02 .(GEOCHEMISTRY)

1080649 82-00071

Looking for jade

Picard, M. D.
Univ. Utah, Dep. Geol. and Geophys., Salt Lake City, UT, USA
Journal of Geological Education 29: 3, 140-142p., 1981
Country of Publ.: United States
ISSN: 0022-1368
CODEN: JGEEA5
Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Latitude: N410000; N450000 Longitude: W1040500; W1110500

Descriptors: *Wyoming; *minerals ; mineralogy; chain
silicates; clinoamphibole ; nephrite; jade; pyroxene group;
silicates; amphibole group; chain silicates, clinoamphibole;
collecting; gems; United States; popular geology
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1077744 82-05461

North Carolina nephrite

Zeitner, J. C.
Lapidary Journal 35: 6, 1180, 1182, 1186, 1188, 1192p.,
1981

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch map

Latitude: N361500; N363000 Longitude: W0784500; W0791000

Descriptors: *North Carolina; *minerals; economic geology;

chain silicates; amphibole group; gems; clinoamphibole;

Person County; United States; chain silicates, amphibole

group; nephrite; silicates; popular geology; collecting;

Mount Tirzah

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1075264 81-56912

Chrome-diopside jade from Chisaka, Hidaka Province,
Hokkaido; supplementary note of so-called "Hidaka Jaka"
(1972)

Bamba, T.

Gemmol. Soc. Jap., J. 7: 1, 9-13p., 1980

Country of Publ.: Japan

ISSN: 0385-5090

CODEN: HOGAD6 8 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Japanese

illus., 1 anal., 2 tables, geol. sketch maps

Latitude: N420000; N420000 Longitude: E1420000; E1420000

Descriptors: *Japan; *minerals; mineralogy; chain

silicates; clinopyroxene; diopside; Asia; chain silicates,

clinopyroxene; economic geology; gems; Chisaka; Hidaka;

Hokkaido; pyroxene group; silicates; chromium; jade;

uvarovite; garnet group; orthosilicates; chromite; oxides;

pectolite; Kamukotan structural belt; grossular; rodingit;

gabbro family; serpentinite; metaigneous rocks; metasomatic

rocks; kammererite; sheet silicates; mineral deposits,

genesis; new names; Hidaka jade; hydrothermal processes;

metasomatism; fibrous structure; chemical composition

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1071289 81-52260

Jade

Anonymous

The Kotzebue Basin

Anderson, D.; Belous, R.; Huntington, J.; Jones, A.;

McCammon, M.; McDermott, M.; McPhee, J.; Morgan, L.; Ray, D.

J.; Schuerch, T.; Tobuk, J.; Uhl, B.; Wik, O.

Alaska Geographic 8: 3, 161-168p., 1981

Country of Publ.: United States

ISSN: 0361-1353

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Alaska; *minerals; mineralogy; chain
silicates; pyroxene group; jade; United States; silicates;
chain silicates, pyroxene group; popular geology; Kotzebue
Basin

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1068897 81-56515

Blue jade discovered in California

Hemrich, G. I.

Jewelry Making Gems & Minerals 520, 16-20p., 1981

Country of Publ.: United States

ISSN: 0274-8193

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *California; economic geology; gems; United
States; jade; pyroxene group; chain silicates; silicates;
Monterey County; popular geology

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1067780 81-52319

British Columbia jade

Leff, M.

Rocks and Minerals in Canada 14: 3, 5-6p., 1981

Country of Publ.: Canada

ISSN: 0035-7537

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Latitude: N580000; N580000 Longitude: W1330000; W1330000

Descriptors: *British Columbia; *minerals; economic geolog
mineralogy; chain silicates; clinoamphibole; gems;
amphibole group; nephrite; Canada; jade; pyroxene group;
silicates; chain silicates, amphibole group; Ogden Mountain;
Fraser River; popular geology

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1066773 81-51859

Gem minerals in New Zealand

Thompson, B. N.

Mining and metallurgical practices in Australasia

Woodcock, J. T. (EDITOR)

Monograph Series - Australasian Institute of Mining and
Metallurgy 10, 731p., 1980

Country of Publ.: Australia

ISSN: 0155-3399

CODEN: MSAMDR 1 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Latitude: S473000; S343000 Longitude: E1783000; E1663000
Descriptors: *New Zealand; *mining geology; economic geology; practice; gems; dredging; Australasia; nephrite; amphibole group; chain silicates; silicates; bowenite; tailings; recovery; reserves; production; placers; alluvium; clastic sediments; silica minerals; framework silicates
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1063485 81-51776

Jade in Mexico

Castro, K. M.; Castro, D.

Jewelry Making Gems & Minerals 525, 49-50p., 1981

Country of Publ.: United States

ISSN: 0274-8193

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Latitude: N143000; N324300 Longitude: W0864500; W1170000

Descriptors: *Mexico; *minerals; economic geology; chain silicates; clinopyroxene; gems; jadeite; North America; chain silicates; pyroxene group; pyroxene group; silicates; popular geology; collecting; jade; history; occurrence
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1060562 81-40582

Unusual minerals in Georgia

Hurst, V. J.; Shrum, J. W.

Univ. Ga., Athens, GA, USA

Rocks and Minerals 54: 4, 161-165p., 1979

Country of Publ.: United States

ISSN: 0035-7529

CODEN: ROCMAR 17 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Georgia; *minerals; mineralogy; miscellaneous minerals; mineral collecting; United States; Gulf Coastal Plain; North America; popular geology; beryl; ring silicates; silicates; lithiophorite; oxides; rutile; jade; pyroxene group; chain silicates; iron phosphate; kaolinite; sheet silicates; zeolite; zeolite group; framework silicates; chain silicates; pyroxene group; sheet silicates; clay minerals

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1060560 81-46072

Gems of Georgia

Mayo, F.

Rocks and Minerals 54: 4, 148-150p., 1979

Country of Publ.: United States

ISSN: 0035-7529

CODEN: ROCMAR 7 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Georgia; *minerals; economic geology; miscellaneous minerals; gems; mineral collecting; United States; popular geology; apatite; phosphates; beryl; ring silicates; silicates; diamond; native elements and alloys; garnet; garnet group; orthosilicates; lazulite; nephrite; amphibole group; chain silicates; quartz; silica minerals; framework silicates; rutile; oxides; schorl; staurolite; topaz; Gulf Coastal Plain; North America
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1052984 81-40123

Kazakhstanskiy gidrogrossulyarit; dekorativnaya raznovidnost' "transvaal'skogo zhada"

Hydrogrossularite from Kazakhstan; a decorative variety of "Transvaal jade"

Putolova, L. S.; Vlasova, Y. V.

Dragotsennyye i tsvetnyye kamni

Gems and precious stones

Petrov, V. P. (EDITOR)

Publ: Izd. Nauka

219-225p., 1980

Country of Publ.: Union of Soviet Socialist Republics

5 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: ANALYTIC

Languages: Russian

illus.

Latitude: N410000; N550000 Longitude: E0860000; E0470000

Descriptors: *USSR; *minerals; economic geology; orthosilicates; garnet group; gems; hydrogrossularite; Kazakhstan; orthosilicates, garnet group; infrared spectra; chemical composition
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1052974 81-40019

Tsvetnyye kamni v ul'traosnovnykh porodakh Zapadnogo Pribalkhash'ya

Precious stones in ultrabasic rocks from the western Balkhash region

Ayerov, G. D.; Zaryanov, K. B.; Kormushin, A. A.

Dragotsennyye i tsvetnyye kamni

Gems and precious stones

Petrov, V. P. (EDITOR)

Publ: Izd. Nauka

106-109p., 1980

Country of Publ.: Union of Soviet Socialist Republics

1 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: ANALYTIC

Languages: Russian

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Latitude: N410000; N550000 Longitude: E0860000; E0470000
Descriptors: *USSR; *igneous rocks; economic geology;
ultramafics; gems; composition; Kazakhstan; mineral
composition; nephrite; amphibole group; chain silicates;
silicates; chrysoprase; scapolite; scapolite group;
framework silicates; diopside; pyroxene group; spinel;
oxides; garnet; garnet group; orthosilicates; zoisite;
epidote group; epidote; chlorite; sheet silicates
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1052007 81-34553

Nephrite jade from Cowell, South Australia
Ball, R. A.
The Australian Gemmologist 14: 4, 53-56p., 1980
Country of Publ.: Australia
ISSN: 0004-9174
CODEN: AGMLB2 10 REFS.
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus., 1 table
Descriptors: *South Australia; *minerals; mineralogy;
chain silicates; clin amphibole; nephrite; Australia; chain
silicates, clin amphibole; amphibole group; silicates; gems;
optical properties; jade; pyroxene group; occurrence
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1049835 81-34625

Nephrite, jadeite - jade; Part 2
Hill, R., Sr.
Gems Miner. 505, 40-49p., 1979
Country of Publ.: United States
ISSN: 0016-6278
6 REFS.
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
plates
Descriptors: *minerals; chain silicates; clinopyroxene;
clin amphibole; jadeite; nephrite; silicates; chain
silicates, pyroxene group; jade; pyroxene group; amphibole
group; chain silicates, amphibole group; gems; popular
geology; distribution
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1045670 81-29835

**Minor and trace element geochemistry of estuarine sediments
from the Jade Estuary, German North Sea coast**
Rast, U.; Kruse, H.; Spettel, B.; Wanke, H.; Reineck, H. E.
Tobschall, H. J.
Friedman, G. M. (EDITOR)
Tenth International congress on sedimentology, Jerusalem,
Israel, July 9-14, 1978
International Congress on Sedimentology 10, Vol. 2, 534-53

p., 1978

Country of Publ.: International
2 REFS.
Subfile: B
Doc Type: SERIAL; CONFERENCE PUBLICATION
Bibliographic Level: ANALYTIC
Languages: English
table
Latitude: N533000; N540000 Longitude: E0083000; E0070000
Descriptors: *North Sea; *sediments; sedimentary petrology
geochemistry; trace elements; Germany; Europe; Atlantic
Ocean; Jade Estuary; estuaries
Section Headings: 06 (PETROLOGY, SEDIMENTARY)

1039133 81-28404

Australia likely to be major supplier of jade
Stone, J.
Gems and Gemology 16: 9, 331p., 1980
Country of Publ.: United States
ISSN: 0016-626X
CODEN: GEGEA2
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
Latitude: S400000; S100000 Longitude: E1550000; E1143000
Descriptors: *Australia; economic geology; gems;
production; jade; pyroxene group; chain silicates; silicates
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1034410 81-19279

Jade; the majestic mineral
Hingley, J.
Australian Natural History 19: 10, 336-341p., 1979
Country of Publ.: Australia
ISSN: 0004-9840
CODEN: AUNHAD 4 REFS.
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Descriptors: *minerals; chain silicates; pyroxene group;
jade; chain silicates, pyroxene group; silicates; popular
geology
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1033675 81-23883

Gemstones create new interest, new markets
Sabina, A. P.
Geol. Surv. Can., Ottawa, ON, CAN
Canadian Geographical 100: 5, 42-49p., 1980
Country of Publ.: Canada
ISSN: 0706-2168

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Latitude: N420000; N840000 Longitude: W0520000; W1410000

Descriptors: *Canada ; economic geology ; gems ; mineral resources ; gold ores ; jade ; pyroxene group ; chain silicate ; silicates ; amethyst ; silica minerals ; framework silicates ; nephrite ; amphibole group ; hessonite ; apatite ; phosphates ; pyrophyllite ; sheet silicates ; pearls ; agate ; amazonite ; feldspar group ; sodalite ; sodalite group ; labradorite ; zircon ; orthosilicates ; jasper ; peristerite ; rose quartz ; rhodonite ; ammonoids ; Ammonoidea ; Cephalopoda ; - Mollusca ; gold

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

1029454 81-14654

Striped 'Jade'?

Strain, J.

Imp. Val. Coll., CA, USA

Gems and Minerals 510, 38-40p., 1980

Country of Publ.: United States

ISSN: 0016-6278

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., table, sketch map

Latitude: N360000; N370000 Longitude: W1183000; W1193000

Descriptors: *California ; mineralogy ; miscellaneous minerals ; collecting ; popular geology ; rocks ; United States ; general ; Sequoia National Park ; Three Rivers

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1027626 81-14577

Nature of nephrites of various color

Grudin, M. I.; Sekerin, A. P.; Sekerina, N. V.

Sov. Geol. Geophys. 20: 2, 122-124p., 1979

Country of Publ.: United States

ISSN: 0361-7149

CODEN: SGGEDF 6 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

table, plates

Descriptors: *minerals ; chain silicates ; amphibole group ; nephrite ; chain silicates, amphibole group ; silicates ; properties ; structure ; color ; composition

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1023005 81-09722

Variety spices a trip to the Jade Cove area

Ferguson, R. W.

Lapidary J. 34: 4, 918-924p., 1980

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJDA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

plates

Latitude: N365500; N370000 Longitude: W1215000; W1221000

Descriptors: *California ; *minerals ; mineralogy ; chain silicates ; pyroxene group ; jade ; Jade Cove ; silicates ; chain silicates ; pyroxene group ; popular geology ; Monterey Bay ; Santa Cruz County ; United States

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1021224 81-05150

Termination of planar defects in the amphibole mineral nephrite observed by high-resolution electron microscopy

Mallinson, L. G.

Acta Crystallographica. Section A. Crystal Physics.

Diffraction, Theoretical and General Crystallography 3, 378-381p., 1980

Country of Publ.: Denmark

ISSN: 0567-7394

CODEN: ACACBN 7 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *minerals ; *crystal structure ; chain silicate amphibole group ; nephrite ; chain silicates, amphibole group ; silicates ; defects

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

1016977 81-04646

Field trip; Black jade in the sidewinders

Perry, L. E.

Rock Gem 10: 7, 48-51p., 1980

Country of Publ.: United States

ISSN: 0048-8453

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., plate, sketch map

Latitude: N343000; N343000 Longitude: W1171500; W1171500

Descriptors: *minerals ; *California ; chain silicates ; pyroxene group ; economic geology ; jade ; gems ; field trip ; silicates ; chain silicates, pyroxene group ; history ; United States ; Sidewinder Mountains ; collecting ; Victorville ; road log

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

1013950 81-00013

Australia's jade; stone of destiny

Anonymous

Australian Gems and Crafts Magazine 34, 7-8p., 1979

Country of Publ.: Australia

ISSN: 0312-231X

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English
illus.

Latitude: S380000; S260000 Longitude: E1410000; E1290000

Descriptors: *South Australia; *minerals; mineralogy;
chain silicates; pyroxene group; jade; Australia; chain
silicates, pyroxene group; silicates; collecting; popular
geology

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

1008984 80-48030

"Jade" in Georgia

Hudson, S.

Rock Gem 9: 10, 16-23p., 1979

Country of Publ.: United States

ISSN: 0048-8453

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch map

Latitude: N334500; N341000 Longitude: W0842000; W0844500

Descriptors: *Georgia; *metamorphic rocks; petrology;
epidosite; Cobb County; United States; epidiosites; popular
geology; gems

Section Headings: 05 (PETROLOGY, IGNEOUS AND METAMORPHIC)

1008581 80-52056

Rocks in art

Pearl, R. M.

Earth Sci. 33: 2, 88-90p., 1980

Country of Publ.: United States

ISSN: 0012-8228

CODEN: EARSAF

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *ceramic materials; *construction materials;
*gems; resources; history; sculpture; ceramics; jade;
pyroxene group; chain silicates; silicates

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

1006109 80-47134

Jade hunting in British Columbia

Funke, B.

Rockhound 9: 3, 22-23p., 1980

Country of Publ.: United States

ISSN: 0048-847X

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

plates

Latitude: N490000; N600000 Longitude: W1140000; W1390000

Descriptors: *British Columbia; *minerals; economic geolog
chain silicates; pyroxene group; gems; jade; Canada;
occurrence; mineral collecting; silicates; chain silicates,
pyroxene group; popular geology

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

997133 80-41963

Investigation of the serpentine jade williamsite

Haefner, R.

Second biennial M.S.A.-F.M. symposium; Crystal chemistry and
paragenesis of the gem minerals, Tucson, Ariz., United State,
Feb. 15-17, 1976

M.S.A.-F.M. Symp. 4, 1 p.p., 1976

Country of Publ.: United States

Subfile: B

Doc Type: SERIAL; CONFERENCE PUBLICATION

Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *minerals; *gems; sheet silicates; serpentine
group; properties; williamsite; antigorite; silicates; sheet
silicates, serpentine group; genesis

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

991520 80-31859

O mozliwosci geochemicznych poszukiwan zloz nefrytu na
Dolnym SlaskuPossibilities of geochemical prospecting for nephrite in
Lower Silesia

Lis, J.; Sylwestrzak, H.

Przegl. Geol. 27: 10(318), 547-548p., 1979

Country of Publ.: Poland

ISSN: 0033-2151

CODEN: PRZGAL 19 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Polish Summary Languages: English

Latitude: N501000; N512000 Longitude: E0173000; E0150000

Descriptors: *Poland; *minerals; economic geology; chain
silicates; amphibole group; industrial minerals; nephrite;
Lower Silesia; Europe; mineral resources; silicates; chain
silicates, amphibole group; possibilities; deposits

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

981347 80-22450

The Far Eastern gem deposits and Dr. Edward Gubelin, the
Marco Polo of the gemmological profession
Alexander, A. E.

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Aust. Gemmol. 13: 8. 280-284p.. 1978
Country of Publ.: Australia
ISSN: 0004-9174
CODEN: AGMLB2
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
table, plates
Latitude: N320000; N600000 Longitude: E1450000; E1200000
Descriptors: *Far East ; economic geology ; gems; Asia;
ruby; sapphire; oxides; jade; pyroxene group; chain
silicates; silicates; jadeite
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

La sepulture collective megalithique de l'usine Vivez a
Argenteuil (Val-d'Oise); III, Les objets de parure
The megalithic collective burial at the Vivez Works in
Argenteuil (Val-d'Oise); III, Ornamental objects
Taborin, Y.
Gallia Prehist. 20: 1. 205-214p.. 1977
Country of Publ.: France
ISSN: 0016-4127
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: French
illus.
Latitude: N485600; N485700 Longitude: E0021300; E0021130
Descriptors: *France; *Mollusca; *Mammalia ; stratigraphy;
faunal studies ; Holocene; Europe; Quaternary; archaeology;
artifacts; Neolithic; Bivalvia; Gastropoda; Perissodactyl;
Artiodactyla; Proboscidea; schist; schists; jade; pyroxene
group; chain silicates; silicates; bones; shells; copper;
Val-d'Oise; Argenteuil; Vivez
Section Headings: 24 .(SURFICIAL GEOLOGY, QUATERNARY GEOLOGY)

971041 80-13380
Jade Ridge
Hegna, E.
Hegna, Kerns Traut, Casper, Wyo., USA
Wyoming oil and gas fields symposium; Greater Green River
basin; vol. 2
Bradley, W. A.(EDITOR); Champlin, S. C.(EDITOR); Kennedy, J.
P.(EDITOR); Miles, O. P., Jr.(EDITOR); Smithwick, M.
E.(EDITOR); Walker, R. E.(EDITOR)
Wyoming oil and gas fields symposium; Greater Green River
basin, Casper, Wyo., United States, 1979
Publ: Wyo. Geol. Assoc.
198-199p.. 1979
Country of Publ.: United States
Subfile: B
Doc Type: BOOK; CONFERENCE PUBLICATION
Bibliographic Level: ANALYTIC
Languages: English
illus., sketch map
Latitude: N421000; N440000 Longitude: W1073000; W1100000

Descriptors: *Wyoming ; economic geology ; oil and gas
fields; Fremont County; Dakota Formation; Muddy Formation;
Frontier Formation; United States; Green River basin;
petroleum; reservoir rocks; data; Jade Ridge Field;
Cretaceous; Mesozoic; sandstone; clastic rocks
Section Headings: 29 .(ECONOMIC GEOLOGY, ENERGY SOURCES)

966279 80-09259
Nephrite occurrences in the Granite Mountains region of
Wyoming
Madson, M. E.
Resources of the Wind River basin
Boyd, R. G.(EDITOR); Boberg, W. W.(EDITOR); Olson, G.
M.(EDITOR)
Resources of the Wind River basin, Casper, Wyo., United
States, Sept., 1978
Wyo. Geol. Assoc. Guideb. 30, 393-397p.. 1978
Country of Publ.: United States
CODEN: WGGCAG 28 REFS.
Subfile: B
Doc Type: SERIAL; CONFERENCE PUBLICATION
Bibliographic Level: ANALYTIC
Languages: English
tables
Latitude: N410000; N450000 Longitude: W1040500; W1110500
Descriptors: *Wyoming; *minerals ; economic geology; chain
silicates; amphibole group; gems; nephrite; Battle Springs
Formation; Wasatch Formation; Crooks Gap Conglomerate; United
States; Granite Mountains; silicates; Bull Canyon; Paleocen;
Paleogene; Tertiary; Cenozoic; Eocene; chemical compositio;
mineralogy; exploration; genesis; Wind River basin; jade;
pyroxene group; deposits; occurrence; chain silicates,
amphibole group
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

966126 80-05867
From jasper to jade in Venezuela
Maxfield, P.
Lapidary J. 32: 4, 878-882p.. 1978
Country of Publ.: United States
ISSN: 0023-8457
CODEN: LAJDAG
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
illus.
Latitude: N004500; N121000 Longitude: W0595500; W0731500
Descriptors: *Venezuela; *minerals ; mineralogy; silicates
; occurrence; South America; gems; jasper; silica minerals;
framework silicates; jade; pyroxene group; chain silicates;
Gran Sabana; popular geology; elementary geology
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

964802 80-09190

Jade in Canada

Leaming, S. F.

Pap. - Geol. Surv. Can. 78-19, 44p., 1978

Country of Publ.: Canada

ISSN: 0707-2996

CODEN: CGSPAV 110 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: MONOGRAPHIC

Languages: English

Note: Contains 10 page appendix, illus., tables, geol. sketch maps

Latitude: N420000; N840000 Longitude: W0520000; W1410000

Descriptors: *Canada; *minerals; *crystal structure ; mineralogy; chain silicates; amphibole group; economic geology ; nephrite; tremolite; gems; jade; pyroxene group; silicates; chain silicates, pyroxene group; chain silicates, amphibole group; occurrence; history; classification; chemical analysis; in situ; deposits; economics; exploration; production; resources; reserves

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

961991 80-02755

Multiple-chain and other unusual faults in amphiboles

Jefferson, D. A.; Mallinson, L. G.; Hutchison, J. L.;

Thomas, J. M.

Contrib. Mineral. Petrol.--Beitr. Mineral. Petrol. 66: 1, 1-4p., 1978

Country of Publ.: International

ISSN: 0010-7999

CODEN: CMPEAP 10 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *minerals; *crystal structure ; chain silicate amphibole group ; nephrite; chain silicates, amphibole group; silicates; unit cell; defects; multiple-chain defects; experimental studies

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

961704 80-05449

The classic jadeite from Burma

Messenger, H.

Jade Sales, Cambria, Calif., USA

Gems Miner. 500, 63-65p., 1979

Country of Publ.: United States

ISSN: 0016-6278

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *Burma ; economic geology ; gems; jadeite; pyroxene group; chain silicates; silicates; Asia; color; properties; economics; jade; popular geology

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

961701 80-05460

The Richardson jade collection

Schultze, E. N.

Gems Miner. 500, 14-16, 18p., 1979

Country of Publ.: United States

ISSN: 0016-6278

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *gems ; collections ; jade; pyroxene group; chain silicates; silicates; minerals; chain silicates, pyroxene group; popular geology

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

961700 80-05438

Jade in Central America

Castro, K.; Castro, D.

Gems Miner. 500, 11-12, 32-36p., 1979

Country of Publ.: United States

ISSN: 0016-6278

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *Central America ; economic geology ; gems; Guatemala; jade; pyroxene group; chain silicates; silicate; jadeite; deposits; Costa Rica; history; Mexico; North America; popular geology

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

961699 80-05456

South Australian nephrite jade

Robertson, G. J.

Gems Miner. 500, 8, 28-29p., 1979

Country of Publ.: United States

ISSN: 0016-6278

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Latitude: S342000; S330000 Longitude: E1373000; E1363000

Descriptors: *South Australia ; economic geology ; gems; Australia; nephrite; amphibole group; chain silicates; silicates; popular geology; jade; pyroxene group; Cowell; chain silicates, pyroxene group; deposits; chain silicates, amphibole group; reserves; color

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

957413 79-40080

Precious stones found in China

Wang Fuquan

Lapidary J. 33: 3, 694-696p., 1979

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJOA6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Latitude: N200000; N530000 Longitude: E1350000; E0740000

Descriptors: *China economic geology; gems; Asia; popular geology; diamonds; rubies; sapphire; oxides; amethyst; silica minerals; framework silicates; silicates; rose quartz; jade; pyroxene group; chain silicates; garnet group; orthosilicates; carnelian; Changlin Diamond

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

Descriptors: *sediments; *West Germany; geochemistry; tidal flats; clay; clastic sediments; silt; sand; properties; porosity; pore water; mineral composition; organic material; carbonates; authigenic materials; Germany; Europe; Lower Saxony; Jade Bay

Section Headings: 02 (GEOCHEMISTRY)

953852 79-35558

Topographie und Geomorphologie**Topography and geomorphology**

Reineck, H. E.

Das Watt; Ablagerungs- und Lebensraum

Reineck, H. E. (EDITOR)

Publ: Verlag Waldemar Kramer

12-15p., 1970

Country of Publ.: Germany, Federal Republic of

1 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: ANALYTIC

Languages: German

illus., sketch maps

Latitude: N532000; N534500 Longitude: E0083000; E0080000

Descriptors: *West Germany; *geomorphology; shore features; tidal flats; Germany; Europe; topography; Lower Saxony; Jade Bay

Section Headings: 23 (SURFICIAL GEOLOGY, GEOMORPHOLOGY)

953851 79-33274

Geschichte der Jade**History of the Jade Bay**

Gadow, S.

Das Watt; Ablagerungs- und Lebensraum

Reineck, H. E. (EDITOR)

Publ: Verlag Waldemar Kramer

7-11p., 1970

Country of Publ.: Germany, Federal Republic of

21 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: ANALYTIC

Languages: German

illus., sketch maps

Latitude: N532000; N534500 Longitude: E0083000; E0080000

Descriptors: *West Germany; *sedimentation; oceanography; environment; geomorphology; brackish-water environment; changes of level; Germany; Europe; Lower Saxony; Jade Bay; Holocene; Quaternary

Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

Kriterii prognoznoy otsenki territoriy na tverdye poleznyye iskopayemye
Criteria for determining the analysis of territories of solid mineral resources

(cont. next page)

953853 79-32509

Sedimente und Chemismus**Sediments and chemistry**

Gadow, S.

Das Watt; Ablagerungs- und Lebensraum

Reineck, H. E. (EDITOR)

Publ: Verlag Waldemar Kramer

23-35p., 1970

Country of Publ.: Germany, Federal Republic of

37 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: ANALYTIC

Languages: German

illus., sketch maps

Latitude: N532000; N534500 Longitude: E0083000; E0080000

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Rundkvist, D. V. (EDITOR); Markov, K. A.; Mikhaylov, B. M.; Predtechenskiy, N. N.; Berger, V. I.; Denisenko, V. K.; Lutschina, N. V.; Aleksandrov, G. V.; Artemov, V. R.; Belenitskaya, G. A.; Beskin, S. M.; Bogomazov, V. M.; Dyad'kina, I. Ya.; Yegorov, L. S.; Ivanov, N. V.; Ivanova, A. A.; Kolbantsev, R. V.; Kolokol'tsev, V. G.; Konnikov, A. Z.; Korenevskiy, S. M.; Kunayev, I. V.; Kutyrev, E. I.; Lebedeva, L. I.; Librovich, V. L.; L'vova, I. A.; Lyakhnitskaya, I. V.; Marin, Yu. B.; Mikhaylova, Yu. I.; Moskaleva, S. V.; Moshkin, V. N.; Myznikova, L. M.; Nastasiyenko, Ye. V.; Nikanorov, A. S.; Nikitin, N. V.; Novolinskaya, S. A.; Orlova, M. P.; Osinskiy, A. V.; Pavlova, I. G.; Pentel'kov, V. G.; Petrovskiy, G. D.; Pisarchik, Ya. K.; Plotnikova, M. I.; Ponov, V. Ye.; Rytsk, Yu. Ye.; Sarsadskikh, N. N.; Smirnov, F. L.; Smirnov, Yu. D.; Solodov, N. A.; Sokolov, Ya. N.; Staritskiy, Yu. G.; Subbotin, K. D.; Tuganova, Ye. V.; Shurupova, R. I.

Publ: Izd. Nedra
605p., 1978

Country of Publ.: Union of Soviet Socialist Republics
459 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: MONOGRAPHIC

Languages: Russian

Descriptors: *USSR ; economic geology ; mineral resources ; metals ; iron ; chromium ; titanium ; lead ; copper ; nickel ; aluminum ; manganese ; rare earths ; occurrence ; molybdenum ; wolframite ; tungstates ; tin ; mercury ; antimony ; rubidium ; cesium ; lithium ; beryllium ; tantalum ; niobium ; gold ; platinum ; muscovite ; sheet silicates ; silicates ; diamond ; native elements and alloys ; phlogopite ; vermiculite ; chrysotile ; agate ; silica minerals ; framework silicates ; talc ; nephrite ; amphibole group ; chain silicates

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

946170 79-28925

Jade and gemstones from Southern New Zealand

Beck, R. J.

Lapidary J. 33: 1, 186-190p., 1979

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJ0A6

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Latitude: S470000; S403000 Longitude: E1741500; E1663000

Descriptors: *New Zealand ; economic geology ; gems ; Australasia ; South Island ; jade ; pyroxene group ; chain silicates ; silicates

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

946129 79-28983

Diopside "jade" from the Eel River, Mendocino County, California

Wood, M. M.; Weidlich, J. E.

Calif. State Univ., Dep. Geol. Sci., Hayward, Calif., USA

Lapidary J. 32: 7, 1532-1535p., 1978

Country of Publ.: United States

ISSN: 0023-8457

CODEN: LAJ0A6 4 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., table

Descriptors: *California ; economic geology ; gems ; Mendocino County ; United States ; Eel River ; diopside ; pyroxene group ; chain silicates ; silicates ; jade ; popular geology ; minerals ; textures

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

940617 79-21779

Zwischen Jadebusen und Untereibe

Between Jade Bay and the Lower Elbe

Sindowski, K. H.

Sammlung geologischer fuehrer

Gwinner, M. P. (EDITOR)

Publ: Gebrueder Borntraeger

66, 145p., 1979

Country of Publ.: Germany, Federal Republic of
141 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: MONOGRAPHIC

Languages: German

illus., sketch maps

Latitude: N530000; N534500 Longitude: E0113000; E0080000

Descriptors: *West Germany ; areal geology ; Lower Saxony ; guidebook ; Jade Bay ; Elbe River ; Lower Elbe ; Germany ; Europe

Section Headings: 13 .(AREAL GEOLOGY, GENERAL)

938540 79-21507

Deposition of mud in the giant ripples of Inner Jade, German Bight, North Sea

Wunderlich, F.

Senckenb. Mar. 10: 4-6, 257-267p., 1978

Country of Publ.: Germany, Federal Republic of

CODEN: SBNGAI 18 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English Summary Languages: German

illus., plates, sketch map

Latitude: N532500; N534200 Longitude: E0082500; E0075500

Descriptors: *North Sea ; *sedimentary structures ; *sediments ; *sedimentation ; sedimentary petrology ; bedding plane irregularities ; clastic sediments ; environment ; ripple mark ;

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

mud; marine environment; Atlantic Ocean; German Bight; Inner
Jade

Section Headings: 07 .(MARINE GEOLOGY AND OCEANOGRAPHY)

937913 79-20277

The Wyoming mineral industry

Wyoming, Geological Survey, Laramie, Wyo., USA

Wyo., Geol. Surv., Publ. Inf. Circ. 8. 35p., 1978

Country of Publ.: United States

Subfile: B

Doc Type: SERIAL Bibliographic Level: MONOGRAPHIC

Languages: English

illus., maps, sketch maps

Latitude: N410000; N450000 Longitude: W1040500; W1110500

Descriptors: *Wyoming; economic geology; mineral resource
energy sources; United States; economics; possibilities;
reserves; petroleum; natural gas; management; drilling;
Powder River basin; Greater Green River basin; Wind River
basin; iron; coal; organic residues; production; mining;
uranium; bentonite; clastic rocks; feldspar; feldspar group;
framework silicates; silicates; phosphate; gypsum; sulfate;
jade; pyroxene group; chain silicates; vermiculite; sheet
silicates; diamonds; copper; gold; potash; pumice;
pyroclastics and glass

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

935463 79-20526

Nephrite jade deposits near Cowell, Eyre Peninsula

Nichol, D.

S. Aust., Miner. Resour. Rev. 141. 11-26p., 1977

Country of Publ.: Australia

CODEN: MRSRAK 18 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., tables, plate, geol. sketch map

Latitude: S334000; S332000 Longitude: E1370000; E1360000

Descriptors: *South Australia; economic geology; gems;
Australia; Cowell; Eyre Peninsula; nephrite; amphibole group;
chain silicates; silicates; jade; pyroxene group; Cleve
Metamorphics; lower Proterozoic; Proterozoic; Precambrian;
color; defects; inclusions; chemical composition; genesis;
reserves; economics; distribution; accessory minerals;
recovery

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

934109 79-16977

Kamienne surowce w paleolitu i neolitu Moraw

**Lithic raw materials in the Paleolithic and Neolithic of
Moravia**

Stelcl, J.; Malina, J.

Acta Archaeol. Carpathica 16. 221-228p., 1976

Country of Publ.: Poland

ISSN: 0001-5229

12 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Polish Summary Languages: French

illus.

Descriptors: *Czechoslovakia; *mining geology; stratigraph
history; Quaternary; archaeology; economic geology; Europe;
Cenozoic; radiolarite; clastic rocks; chert; chemically
precipitated rocks; quartzite; metamorphic rocks; obsidian;
pyroclastics and glasses; amphibolite; amphibolites;
eclogite; granulites; phyllite; phyllites; nephrite;
amphibole group; chain silicates; silicates; jadeite;
pyroxene group; serpentinite; metaigneous rocks; metasomatic
rocks; porphyry; igneous rocks; spessartite; lamprophyre and
carbonatite family; shale; limestone; carbonate rocks

Section Headings: 24 .(SURFICIAL GEOLOGY, QUATERNARY GEOLOGY)

934060 79-16908

Tawenkou; Neolithic culture find

Kao Kuang-jen

China Reconstr. (Engl. Ed.) 27: 8. 31-35p., 1978

Country of Publ.: China

ISSN: 0009-4447

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *China; *fossil man; stratigraphy; occurrence;
Holocene; archaeology; Asia; Quaternary; Tawenkou Cultur;
Shan-tung; Chiang-su; Chu-hsien; Chu-ch'eng; Ta-wen-k'ou;
Tai-an; Ta-wen River; Ch'u-fu; artifacts; P'i-hsien; Liu-li;
Ling-yang-ho; chien-chai; Hsi-hsia-hou; jade; pyroxene group;
chain silicates; silicates; ceramic materials; bones; Sus
scrofa; Homo sapiens; Homo; Hominidae; Primates; Mammalia;
Hydropotes inermis; paleopathology; Testudo sp.; Neolithic

Section Headings: 24 .(SURFICIAL GEOLOGY, QUATERNARY GEOLOGY)

934059 79-16877

The search for the Hsia culture

Chou Yung-chen

China Reconstr. (Engl. Ed.) 27: 11. 48-50p., 1978

Country of Publ.: China

ISSN: 0009-4447

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *China; stratigraphy; Holocene; Asia;
Quaternary; Bronze Age; jade; pyroxene group; chain
silicates; silicates; C-14; ceramics; archaeology; Shan-hs;
Ho-nan

Section Headings: 24 .(SURFICIAL GEOLOGY, QUATERNARY GEOLOGY)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

934058 79-16876

Chinese history; II, Slave society; Hsia, Shang, Western Chou

Chiao Chien

China Reconstr. (Engl. Ed.) 27: 11, 44-49p., 1978

Country of Publ.: China

ISSN: 0009-4447

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus.

Descriptors: *China ; stratigraphy ; Holocene; Asia; Quaternary; Bronze Age; archaeology; Testudo sp.; Bos sp.; artifacts; bronze; iron meteorites; meteorites; Ho-nan; Shan-hsi; bones; jade; pyroxene group; chain silicates; silicates

Section Headings: 24 .(SURFICIAL GEOLOGY,QUATERNARY GEOLOGY)

932509 79-14229

A mineralogical study of the Fengtien nephrite deposits of Hualien, Taiwan

Tan, L. P.; Lee, C. W.; Chen, C. C.; Tien, P. L.; Tsui, P. C.; Yui, T. F.

Taiwan, Natl. Sci. Council, Proc. 2: 3, 249-250p., 1978

Country of Publ.: Taiwan, Province of

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English Summary Languages: Chinese

Descriptors: *Taiwan; *minerals ; mineralogy; chain silicates; amphibole group; economic geology ; industrial minerals; nephrite; Asia; silicates; deposits; Hualien; Fengtien; chain silicates, amphibole group; mineral data; chemical composition

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

931460 79-14183

A nephrite deposit in the Great Serpentine Belt of New South Wales

Hockley, J. J.; Birch, W. D.; Worner, H. K.

Geol. Soc. Aust., J. 25, Parts 5-6, 249-254p., 1978

Country of Publ.: Australia

CODEN: JGESAD 10 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

table, plate, sect., sketch map

Latitude: S310000; S310000 Longitude: E1510000; E1510000

Descriptors: *New South Wales; *minerals ; mineralogy; chain silicates; amphibole group ; nephrite; Australia; Great Serpentine Belt; silicates; occurrence; genesis; metasomatism; Peel Fault; chain silicates, amphibole group; Tamworth; serpentinite; metaigneous rocks; metasomatic rock; geochemistry; chemical composition

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

931306 79-14156

Rochester mineralogical symposium

Chamberlain, S. C.; Dossert, W.

Syracuse Univ., Inst. Sensory Res., Syracuse, N.Y., USA

Rocks Miner. 54: 1, 26-30p., 1979

Country of Publ.: United States

CODEN: ROCMAR 8 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., plates

Descriptors: *mineralogy; *symposia ; miscellaneous mineral minerals; jade; pyroxene group; chain silicates; silicate; calcite; carbonates; sphalerite; sulfides; crocoite; chromates; chalcedony; silica minerals; framework silicate; occurrence; prehnite; sheet silicates

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

931187 79-14471

Rodingite occurrences in some Archaean ultramafic complexes in the Barberton Mountain Land, South Africa

Anhaeusser, C. R.

Univ. Witwatersrand, Econ. Geol. Res. Unit, Inform. Circ. 116, 21p., 1978

Country of Publ.: South Africa

ISSN: 0449-0711 ISBN: 0854945008

CODEN: UWGCA4 66 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: MONOGRAPHIC

Languages: English

illus., plates, tables, sects., sketch maps

Latitude: S263000; S240000 Longitude: E0320000; E0300000

Descriptors: *South Africa; *igneous rocks ; petrology; gabbro family ; rodingite; Africa; Barberton Mountain Land; Archean; lower Precambrian; Precambrian; dunite; ultramafic family; harzburgite; orthopyroxene; websterite; gabbro; hydrogrossular; garnet group; orthosilicates; silicates; hibschite; vesuvianite; diopside; pyroxene group; chain silicates; nephrite; amphibole group; prehnite; sheet silicates; zoisite; epidote group; chemical composition; genesis; complexes; metasomatism

Section Headings: 05 .(PETROLOGY, IGNEOUS AND METAMORPHIC)

928063 79-13911

The Kurtushibinsk nephrite deposit in West Sayan

Sekerin, A. P.

Sov. Geol. Geophys. 18: 7, 42-48p., 1977

Country of Publ.: United States

CODEN: SGGEDF 7 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., table, geol. sketch map

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Latitude: N520000; N540000 Longitude: E0980000; E0920000
 Descriptors: *USSR; *minerals; *metasomatism; economic
 geology; chain silicates; amphibole group; processes;
 industrial minerals; nephrite; nephritization; Kurtushibins;
 silicates; Sayan; chain silicates, amphibole group;
 mineralogy; genesis; petrology; chemical composition; zonin;
 serpentinite; metaigneous rocks; metasomatic rocks;
 rodingite; gabbro family
 Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

925580 79-10565

Edelsteinvorkommen in Polen
Gem occurrences in Poland

Sachanbinski, M.
 Dtsch. Gemmol. Ges., Z. 27: 3, 156-158p., 1978
 Country of Publ.: Germany, Federal Republic of
 CODEN: ZDGG87
 Subfile: B
 Doc Type: SERIAL Bibliographic Level: ANALYTIC
 Languages: German
 Latitude: N490000; N544500 Longitude: E0241500; E0141500
 Descriptors: *Poland; economic geology; gems; Europe;
 deposits; amethyst; silica minerals; framework silicates;
 silicates; agate; nephrite; amphibole group; chain silicate;
 quartz; serpentinite; metaigneous rocks; metasomatic rocks;
 chrysoprase; inventory
 Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

917411 79-03030

Other gemstones

Anonymous
 Min., Annu. Rev. 1978, 128p., 1978
 Country of Publ.: United Kingdom
 Subfile: B
 Doc Type: SERIAL Bibliographic Level: ANALYTIC
 Languages: English
 Descriptors: *gems; production; review; deposits; globa;
 economics; 1977; sapphire; oxides; emerald; ring silicate;
 silicates; jade; pyroxene group; chain silicates; opal;
 silica minerals; framework silicates; ruby; aquamarine;
 topaz; orthosilicates; tourmaline; zircon; turquoise;
 phosphates
 Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

915329 78-40391

Characterization of two samples of Taiwan's jade

Flamini, A.; Graziani, G.; Martini, M.
 J. Gemmol. 16: 3, 153-161p., 1978
 Country of Publ.: United Kingdom
 CODEN: JGEAAR 7 REFS.
 Subfile: B
 Doc Type: SERIAL Bibliographic Level: ANALYTIC
 Languages: English
 illus., tables

Latitude: N220000; N253000 Longitude: E1230000; E1200000
 Descriptors: *Taiwan; *minerals; mineralogy; chain
 silicates; pyroxene group; jade; Asia; chain silicates,
 pyroxene group; silicates; mineral data; gems; composition
 Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

910852 78-45344

Voprosy mineralologii i perspektivy razpol'zovaniya
kamnesamotsvetnogo syr'ya Vostochnoy Sibiri
Aspects of the mineralogy and prospects for the utilization
of gemstone raw materials of eastern Siberia

Shmakin, B. M.; Tatarinov, A. V.; Zamaletdinov, R. S.;
 Suturin, A. N.; Rogova, V. P.
 Vses. Mineral. O-vo, Zap. 106: 4, 417-423p., 1977
 Country of Publ.: Union of Soviet Socialist Republics
 CODEN: ZVMOAG 13 REFS.
 Subfile: B
 Doc Type: SERIAL Bibliographic Level: ANALYTIC
 Languages: Russian
 Latitude: N500000; N800000 Longitude: W1700000; E0900000
 Descriptors: *USSR; economic geology; gems; Siberia;
 mineralogy; minerals; nephrite; amphibole group; chain
 silicates; silicates; jadeite; pyroxene group; chemical
 composition; X-ray data; chaoite; native elements and alloy;
 amethyst; silica minerals; framework silicates; pegmatite;
 granite-granodiorite family
 Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

892334 78-24936

Mount Gheerthy marble and nephritic jade deposit, Cowell
District

Mason, M. G.
 S. Aust., Miner. Resour. Rev. 128, 190-195p., 1968
 Country of Publ.: Australia
 CODEN: MRSRAK 3 REFS.
 Subfile: B
 Doc Type: SERIAL Bibliographic Level: ANALYTIC
 Languages: English
 geol. sketch maps
 Latitude: S350000; S345000 Longitude: E1384500; E1381500
 Descriptors: *South Australia; economic geology; marble;
 gems; Australia; marbles; deposits; jade; pyroxene group;
 chain silicates; silicates; Mount Gheerthy; Cowell District;
 reserves; exploration; possibilities; nephrite; amphibole
 group
 Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

891455 78-24909

Pilbarra jade

Fander, H. W.
 Aust. Gemmol. 12: 3, 80p., 1974
 Country of Publ.: Australia
 (cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

CODEN: AGMLB2

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Latitude: S350000; S140000 Longitude: E1290000; E1130000

Descriptors: *Western Australia ; economic geology ; gems;
Australia; deposits; jade; pyroxene group; chain silicate;
silicates; genesis; serpentinite; metaigneous rocks;
metasomatic rocks

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

887091 78-19114

Ultramafic rocks in Cry Lake map-area (104 I), British
Columbia

Leaming, S.

Geol. Surv. Can., Reg. Econ. Geol. Div., Vancouver, B.C.,

CAN

Current research, part A

Can., Geol. Surv., Pap. 78-1A. 17-19p., 1978

Country of Publ.: Canada

CODEN: CGSPAV

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Note: Project 490038, sect., sketch map

Latitude: N580000; N590000 Longitude: W1280000; W1290000

Descriptors: *British Columbia; *igneous rocks ; petrology;
ultramafic family ; distribution; Canada; Cry Lake;
Sylvester Group; Cache Creek Group; serpentinite;
metaigneous rocks; metasomatic rocks; jade; pyroxene group;
chain silicates; silicates; deposits; contact; Paleozoic;
Phanerozoic

Section Headings: 05 .(PETROLOGY, IGNEOUS AND METAMORPHIC)

882293 78-15330

The colour of nephrite jade from Cowell

Nichol, D.

S. Aust., Geol. Surv., Q. Geol. Notes 53. 9-12p., 1975

Country of Publ.: Australia

CODEN: SGQRAY 2 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., geol. sketch map

Latitude: S333800; S000000 Longitude: E1365000; E1365000

Descriptors: *South Australia ; economic geology ; gems;
Australia; deposits; jade; pyroxene group; chain silicate;
silicates; nephrite; amphibole group; Cowell; Precambrian;
metamorphism; resources; economics; color; variations

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

880734 78-11708

Electron microprobe, X-ray diffraction, and spectral studies
of South African and British Columbian "jades"

Maning, P. G.; Owens, D. R.

Can. Mineral. 15, Part 4. 512-517p., 1977

Country of Publ.: Canada

CODEN: CAMIA6 28 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., table

Latitude: N500000; N503000 Longitude: W1212000; W1215000

Descriptors: *South Africa; *British Columbia; *inclusions;
*minerals; *gems ; mineralogy; orthosilicates; garnet group;
mineral inclusions; properties ; vesuvianite; grossular;
optical properties; Africa; Transvaal; Bushveld Complex;
Buffelsfontein; Canada; Lytton; optical spectra; absorption
spectra; mineral data; silicates; hydrogrossular; electron
probe data; X-ray data; jade; pyroxene group; chain silicate;
orthosilicates, garnet group; color; crystal field;
Rustenberg

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

857768 77-39764

Nephrite jade occurrences in British Columbia and Yukon
Territory

Leaming, S. F.

Can., Geol. Surv., Pap. 77-1A: Report of activities, Part A,
297-299p., 1977

Country of Publ.: Canada

CODEN: CGSPAV 1 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Project 490038, tables, sketch maps

Latitude: N490000; N700000 Longitude: W1140000; W1410000

Descriptors: *British Columbia; *gems; *Yukon Territory ;
economic geology; Canada ; deposits; jade; nephrite;
occurrence; resources; exploration

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

850814 77-28790

Glaukofanovyte slantsy, zhadeitity, vezuvianity i nefrity
giperbazitovogo massiva Ray-Iz
Glaucophane schist, jadeite, vesuvianite and nephrite from
the Ray-Iz ultramafic massif

Kazak, A. P.; Dobretsov, N. L.; Moldavantsev, Yu. Ye.

Geol. Geofiz. (Akad. Nauk SSSR, Sib. Otd.) 2, 60-66p.,
1976

Country of Publ.: Union of Soviet Socialist Republics

CODEN: GGASAS 12 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Languages: Russian Summary Languages: English
tables

Latitude: N650000; N700000 Longitude: E0600000; E0500000

Descriptors: *USSR; *minerals; mineralogy; silicates;
vesuvianite; glaucophane; nephrite; jadeite; Polar Urals;
Ray-Iz; orthosilicates; chain silicates; occurrence;
metamorphic rocks; schists; serpentinite; mineral data;
chemical composition

Section Headings: 05 .(PETROLOGY, IGNEOUS AND METAMORPHIC)

838123 77-16566

**The age of nephrite occurrences in the Great Serpentine Belt
of New South Wales**

Lanphere, M. A.; Hockley, J. J.

Geol. Soc. Aust., J. 23: 1, 15-17p., 1976

Country of Publ.: Australia

CODEN: JGESAD 15 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., tables

Descriptors: *absolute age; *Permian; *New South Wales;
dates; geochronology; Australia; minerals; nephrite; Ar/A;
tectonics; Great Serpentine Belt

Section Headings: 03 .(GEOCHRONOLOGY)

835189 77-14461

**The median tectonic line in New Guinea; a continent-island
arc collision suture**

Ryburn, R. J.

BMR J. Aust. Geol. Geophys. 1: 3: Fifth BMR Symposium, 25p.,
1976

Country of Publ.: Australia

CODEN: BJAGDT 0 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *plate tectonics; *New Guinea; *mineral
resources; *metamorphic rocks; *Tertiary; Asia; metaigneous;
tectonophysics; Indonesia; Irian Jaya; Malay Archipelago;
Australasia; Papua New Guinea; Median Line; evolution;
processes; movement; convergence; subduction; metamorphosis;
metamorphic belts; faults; models; genesis; blueschist
facies; mineral composition; Eocene; Oligocene; Papuan
ultramafic belt; North New Guinea Arc; Marum Complex;
nonmetals; metals; ore deposits; nickel; copper; pyrite; jade
Section Headings: 18 .(GEOPHYSICS, SOLID EARTH)

833627 77-15470

Tidal flat deposits (Wattenschlick)

Haentzschel, W.

Holocene tidal sedimentation

Klein, G. deV. (EDITOR)

Benchmark papers in geology

Publ: Dowden, Hutchinson & Ross, Inc.

30, 14-24p., 1976

Country of Publ.: United States

33 REFS.

Subfile: B

Doc Type: BOOK Bibliographic Level: ANALYTIC

Languages: English

Note: With discussion. Reprint from Trask, P. D., Editor;
Rec. Mar. Sed.; A, Sympos.; Soc. Econ. Paleontol. Mineral.
Spec. Pub. No. 1, 1939, illus., tablesDescriptors: *Germany; *sedimentation; *sediments; *Holocene;
sedimentary petrology; environment; clastic sediments;
terrigenous; Europe; north; Weser River; Jade Bay; marshe;
tidal; composition; grain size; upper Holocene

Section Headings: 24 .(SURFICIAL GEOLOGY, QUATERNARY GEOLOGY)

831863 77-15987

A new nephrite deposit in eastern SiberiaBabkin, A. F.; Gurulev, S. A.; Sambuyev, K. S.; Shagzhiyev,
K. Sh.Acad. Sci. USSR, Dokl., Earth Sci. Sect. 204: 1-6, 137-13p.,
1973

Country of Publ.: United States

CODEN: DKESA9 3 REFS.

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., table, geol. sketch map

Descriptors: *USSR; *gems; *minerals; economic geology;
chain silicates; amphibole group; nephrite; Siberia; Vitim
River; Paramskoye; deposits; chemical composition;
metasomatism; occurrence

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

821597 77-03911

**Nephrite jade occurrences in British Columbia and Yukon
Territory**

Leaming, S. F.

Can., Geol. Surv., Pap. 76-1A: Report of activities, Part A,
127-129p., 1976

CODEN: CGSPAV

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Project 490038, table, sketch map

Descriptors: *British Columbia; *gems; *Yukon Territory;
economic geology; Canada; deposits; jade; nephrite jade;
occurrence; resources; production

Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

820708 77-01241

Untersuchungen zur Pendelbewegung von Tiderippen im
Heppenser Fahrwasser (Innenjade)The pendulum movement of tidal ripples in navigable water;
Jade Bay

Ulrich, J.

Kueste 23, 112-121p., 1972

CODEN: KUSTAP

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German Summary Languages: English

illus.

Descriptors: *sedimentary structures; *Germany; bedding
plane irregularities; sedimentary petrology; ripple marks;
genesis; tides; Europe; northwest; Jade Bay

Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

812594 76-38840

Ulan-Khodinskoye mestorozhdeniye nefrita (Vostochnyy Sayan)

The Ulan-Khoda deposit of nephrite, Eastern Sayan

Zamaletdinov, R. S.; Suturen, A. N.

Sov. Geol. 9, 90-98p., 1974

CODEN: SVGLA2

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Russian

illus., sect., tables, geol. sketch maps

Descriptors: *USSR; *gems; economic geology; nephrite;
Sayan; Eastern Sayan; Ulan-Khoda; deposits; chemical
composition; host rocks; metamorphic rocks; serpentinite;
igneous rocks; porphyry; gabbro; rodingite; trace element;
chromium; nickel; vanadium; copper; abundance

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

809931 76-36177

Nephrite jade deposits, Cowell, South Australia

Nichol, D.

Aust. Gemmol. 12: 7, 220-221p., 1975

CODEN: AGMLB2

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

sketch maps

Descriptors: *South Australia; *gems; *minerals; economic
geology; Australia; chain silicates; amphibole group; jad;
south; coastal; Cowell; deposits; nephrite; genesis; mining
geology; metamorphic rocks; Precambrian; paragenesis;
metamorphism; affinities; marble

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

808725 76-34971

Die neuen Katzenaugen-Schmucksteine von Taiwan

The new catseye gemstones from Formosa

Gubelin, E.

Dtsch. Gemmol. Ges., Z. 24: 4, 235-236p., 1975

CODEN: ZDGG87

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German

Descriptors: *Formosa; *minerals; mineralogy; silicates;
amphibole; serpentine; chain silicates; amphibole group;
actinolite; nephrite; sheet silicates; serpentine group;
chrysotile; identification; gems; chatoyancy; Asia
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

808720 76-34966

Developments and highlights at GIA's Lab in Los Angeles

Liddicoat, R. T., Jr.

Gems Gemol. 15: 4, 113-117p., 1976

CODEN: GEGEA2

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

Descriptors: *gems; properties; optical properties;
physical properties; identification; natural; synthetic;
turquoise; opal; jade; nephrite; diamonds; inclusions
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

808459 76-34705

"Pilbara jade"

Hudson, D. R.

Aust. Gemmol. 12: 4, 127-133p., 1974

CODEN: AGMLB2

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., tables

Descriptors: *gems; *Western Australia; *minerals;
Australia; economic geology; silicates; Pilbara region;
properties; jade; chlorite; serpentine; chemical composition
Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

798298 76-24544

Tremolit-, Aktinolith- oder Nephrit-Katzenaugen?
Tremolite, actinolite, or nephrite catseyes?

Bank, H.

Dtsch. Gemmol. Ges., Z. 24: 3, 167-169p., 1975

CODEN: ZDGG87

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German

illus.

Descriptors: *minerals; chain silicates; amphibole group;
tremolite; actinolite; nephrite; chemical composition;
physical properties; optical properties; inclusions;
chatoyancy; gems

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)
798295 76-24541

Aventurinquarz als "Smaragd" und "Jade"
Aventurine quartz as "emerald" and "jade"

Frere, A.

Dtsch. Gemmol. Ges., Z. 24: 3, 163-164p., 1975

CODEN: ZDGG87

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German

illus.

Descriptors: *minerals ; framework silicates; silica
minerals ; aventurine; quartz; utilization; gems;
falsification; detection; jade; emerald

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

795934 76-22180

Mining jade, prized new Canadian gemstone

Pearse, G. H. K.

Can. Geogr. J. 91: 3, 20-27p., 1975

CODEN: CGEJAB

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: English

illus., sketch maps

Descriptors: *British Columbia; *gems; *Yukon Territory;
*minerals ; economic geology; Canada; chain silicates;
amphibole group ; deposits; jade; occurrence; exploration;
production; utilization; nephrite; jadeite; genesis; global

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

793084 76-19330

El jade

Jade

Santos Munsuri, A.

Inst. Gemol. Esp., Bol. 1: 2, 10-22p., 1972

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Spanish

illus.

Descriptors: *gems ; properties ; jade; jadeite; nephrite;
coloromelanite; occurrence

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

789671 76-15917

Schwermetalle in den Sedimenten der Jade; Bestandsaufnahme
und Vergleich mit der inneren Deutschen Bucht

Heavy metals in the sediments of Jade Bay; analysis and
comparison with those of the inner German Bight

Little-Gadow, S.; Schafer, A.

Senckenb. Mar. 6: 2, 161-174p., 1974

CODEN: SBNGAI

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German Summary Languages: English

illus., tables, sketch map

Descriptors: *sediments; *North Sea; *marine geology ;
composition; Atlantic Ocean; oceanography ; heavy metals;
cadmium; lead; mercury; zinc; cobalt; chromium; nickel;
copper; carbon; sheet silicates; clay minerals;
montmorillonite; illite; chlorite; kaolinite; Jade Bay;
German Bight

Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

789669 76-15915

Schlickkaemme

Mud ridges

Reineck, H.-E.

Senckenb. Mar. 6: 2, 145-147p., 1974

CODEN: SBNGAI

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: German Summary Languages: English

plate

Descriptors: *sedimentary structures; *North Sea; *marine
geology ; bedding plane irregularities; Atlantic Ocean;
oceanography ; mud ridges; geometry; genesis; processes;
erosion; tidal flats; Jade Bay

Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

789652 76-15898

Regional'naya zonal'nost' giperbazitovykh poyasov i yeye
mineragenicheskoye znachenie

Regional zoning of ultrabasic belts and its mineragenic
significance

Kolbantsev, R. V.

Akad. Nauk SSSR, Dokl. 218: 5, 1167-1170p., 1974

Country of Publ.: Union of Soviet Socialist Republics

CODEN: DANKAS

Subfile: B

Doc Type: SERIAL Bibliographic Level: ANALYTIC

Languages: Russian

sketch maps

Descriptors: *USSR; *igneous rocks; *metasomatism; *mineral
resources ; petrology; ultramafic family; processes ; dunit;
harzburgite; Altai; Sayan; Chumysh; Tes-Khem; zoning;
lizarditization; chrysotilization; antigoritization;
carbonatization; tremolitization; materials; chromite;
asbestos; talc; nephrite

Section Headings: 05 (PETROLOGY, IGNEOUS AND METAMORPHIC)

779652 76-05898

Alteration of Chinese tomb jades; a mineralogical study

Handy, Julia L.; Gaines, Alan M.

Univ. Pa., Dep. Geol., Philadelphia, Pa., USA

Geol. Soc. Am., Abstr. Programs 6: 7, 775p., 1974

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

CODEN: GAAPBC
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: English
Descriptors: *China; *minerals ; mineralogy; chain
silicates ; jade; alteration; X-ray diffraction analysis;
electron microscopy; scanning; Asia
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

777964 76-04210

Jadeite from the Kotaki-Omi area, Niigata Prefecture, Japan
Chihara, K.
Gemmol. Soc. Jap., J. 1: 1, 7-18p., 1974
Subfile: B
Doc Type: SERIAL Bibliographic Level: ANALYTIC
Languages: Japanese Summary Languages: English
illus., geol. sketch map
Descriptors: *Japan; *minerals; *gems ; mineralogy; chain
silicates; pyroxene group; Asia ; jadeite; Honshu; Niigata;
Kotaki River; Omi; mineral data; chemical composition;
occurrence; artifacts; archaeology; jade; properties
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

757046 75-22817

Miscellaneous Investigations
Leaming, S. F.
In Report of Activities, April to October 1974; General,
Can., Geol. Surv., Pap. No. 75-1, Part A, p. 589-591, sketch
map, 1975
CODEN: CGSPAV
Subfile: B
Doc Type: SERIAL
Languages: English
Project 490038.
Descriptors: *Canada; *Gems; *Minerals ; Economic geology;
North America; Miscellaneous minerals ; jade; British
Columbia; Yukon Territory; United States; Washington;
deposits; occurrence; abundance; faults; igneous rocks;
ultramafic family
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

756258 75-22029

Canadian jade with a Chinese accent
Leaming, Stan.
GEOS Fall, p. 10-11, illus., 1974
CODEN: GEOSCI
Subfile: B
Doc Type: SERIAL
Languages: English
Descriptors: *Gems ; Canada ; Regional; jade
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

745323 75-10759

Mineralogical alteration of Chinese tomb jades
Gaines, Alan M.; Handy, Julia L.
Nature Vol. 253, No. 5491, p. 433-434, illus., 1975
CODEN: NATUAS
Subfile: B
Doc Type: SERIAL
Languages: English
X-ray diffraction and SEM, nephrite, chalky alterations
caused by leaching produced during decay of corpses
Descriptors: *China; *Minerals; *Gems ; Mineralogy; Chain
silicates; amphibole group; Asia ; Amphibole; nephrite;
artifacts; tombs; alteration; causes; leaching; dissolutio;
corpses; decay; electron microscopy; scanning; X-ray
diffraction analysis; jade
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

743460 75-08896

Mestorozhdeniya nefrita v Vostochnom Sayane
Nephrite deposits in the Eastern Sayans
Suturin, A. N.; Yakshin, I. Ya.; Zamaletdinov, R. S.
In Nemetallicheskiye poleznyye iskopayemyye giperbazitov, p.
245-247, illus.,
Izd. Nauka Moscow, 1973
Subfile: B
Languages: Russian
Descriptors: *USSR; *Gems; *genesis; *paragenesis; *Mineral
deposits ; Economic geology ; nephrite; Sayan; Eastern Sayan;
deposits; tremolite; talc; diopside; zoisite; quartz; albit;
geochemistry; Processes; metasomatism; controls; lithologic
controls; igneous rocks; gabbro family; granite porphyry
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

743459 75-08895

Geologiya i usloviya obrazovaniya Paramskogo mestorozhdeniya
nefrita v Vostochnoy Sibiri
Geology and conditions of formation of the Param nephrite
deposit in eastern Siberia
Gurulev, S. A.; Shagzhiyev, K. Sh.
In Nemetallicheskiye poleznyye iskopayemyye giperbazitov, p.
234-244, illus. (incl. geol. sketch map),
Izd. Nauka Moscow, 1973
Subfile: B
Languages: Russian
Descriptors: *Igneous rocks; *USSR; *Metamorphic rocks;
*Minerals; *Gems; *genesis; *Mineral deposits ; Ultramafic
family; Metaplutonic; Chain silicates; amphibole group;
Processes; Economic geology ; Dunite; harzburgite; chemical
composition; mineral composition; Param; Serpentinite;
amphibolite; tremolite; nephrite; differential thermal
analysis; deposits; resources; Metasomatism; serpentinizatio;
Siberia; east
Section Headings: 28 .(ECONOMIC GEOLOGY, NONMETALS)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

743458 75-08894

Nefrit v giperbazitakh Khalilovskogo massiva na Yuzhnom Urale**Nephrite in ultrabasic rocks of the Khalilovo Massif in the Southern Urals**Nikitin, I. I.; Stepanov, A. P.
in **Nemetallicheskiye poleznyye iskopayemyye giperbazitov**, p.
231-233, illus.,

Izd. Nauka Moscow, 1973

Subfile: B

Languages: Russian

Descriptors: *USSR; *Construction materials; *Minerals;
Economic geology; Chain silicates; amphibole group; nephrit;
Urals; south; Khalilovo; deposits; chemical composition;
uses; decorative stone; occurrence; igneous rocks;
ultramafic family; dunite; harzburgite; metasomatism;
tremolite

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

743426 75-08862

Nemetallicheskiye poleznyye iskopayemyye giperbazitov
Nonmetallic mineral resources associated with ultrabasic rocksAndreyev, Yu. K. (ed.); Petrov, V. P. (ed.).
Izd. Nauka 268 p., illus. (incl. geol. maps), Moscow, 1973

Subfile: B

Languages: Russian

Compilation of papers cited in this Bibliography under the
separate authorsDescriptors: *USSR; *Nonmetals; *genesis; *Mineral deposits;
Economic geology; asbestos; talc; vermiculite; mica;
magnesite; phosphate; gems; Regional; nephrite; diamonds;
chrysoprase; chrysolite; deposits; mineral assemblages;
chemical composition; reserves; production; uses;
distribution; igneous rocks; metamorphic rocks; mafic;
ultramafic family; Controls; lithologic controls; processes;
metamorphism; metasomatism; weathering

Section Headings: 28 (ECONOMIC GEOLOGY, NONMETALS)

734077 74-39224

Lavender Jade; The Optical Spectrum of Fe 3+ and Fe 2+ -->
Fe 3+ Intervalence Charge Transfer in Jadeite from Burma

Rossman, George R.

Am. Mineral. Vol. 59, No. 7-8, p. 868-870, illus., 1974

CODEN: AMMIAY

Subfile: B

Doc Type: SERIAL

Languages: English

Cal. Tech., Div. Geol. Planet. Sci., Contrib. No. 2433.

Descriptors: *Minerals; *Gems; Chain silicates; pyroxene
group; Properties; Jadeite; optical properties; color;
lavender; green; white; mineral data; chemical analysis;
spectroscopy; electron probe; ions; ferrous; ferric; jade
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

730173 74-35317

Miscellaneous investigations

Leaming, S.

in Report of Activities; Part A, April to October 1973;
General,Can., Geol. Surv., Pap. No. 74-1, p. 365-366, sketch map,
1974

CODEN: CGSPAV

Subfile: B

Doc Type: SERIAL

Languages: English

Project 490038,

Descriptors: *British Columbia; *gems; General; Canada
; Current research; collections; rocks; minerals; occurrence;
jade; structure; field studies

Section Headings: 15 (MISCELLANEOUS & MATHEMATICAL GEOLOGY)

724562 74-29703

Nephrite (jade) Occurrence in the Great Serpentine Belt of
New South Wales, Australia

Hockley, J. J.

Nature Vol. 247, No. 5440, p. 364, sketch map, 1974

CODEN: NATUAS

Subfile: B

Doc Type: SERIAL

Languages: English

Descriptors: *New South Wales; *Gems; *Minerals; Economic
geology; Australia; Chain silicates; amphibole group; jad;
Tamworth; Great Serpentine Belt; nephrite; occurrence;
potential; evaluation

Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

721991 74-27132

Nephrite jade in Maridosa County

Evans, James R.

Calif. Div. Mines Geol., Miner. Inform. Serv. Vol. 19, No.
9, p. 135-147, illus. (incl. geol. map), 1966

CODEN: CDMIAI

Subfile: B

Doc Type: SERIAL

Languages: English

Descriptors: *California; *Gems; Economic geology; United
States; Nephrite jade; Mariposa County; jade; nephrite;
mineralogy; crystallography; areal geology

Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

714779 74-19913

Saussurite as a jade simulant

Fobbins, E. A.; Rutland, E. H.

J. Gemmol. Vol. 14, No. 1, p. 1-7, illus., 1974

CODEN: JGGAAR

Subfile: B

(cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

- Doc Type: SERIAL
Languages: English
Descriptors: *Gems ; Properties ; Physical properties; jad;
simulation: saussurite
Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING).
- 711597 74-16731
Geology of the Sage Creek nephrite deposit, Wyoming
Sherer, Richard L.
Contrib. Geol. (Wyo., Univ.) Vol. 11, No. 2, p. 83-86,
illus. (incl. geol. sketch map), 1972
CODEN: WUGGAO
Subfile: B
Doc Type: SERIAL
Languages: English
Descriptors: *Wyoming; *Metasomatism ; Petrology; Processes
: nephrite; Precambrian; Sage Creek; Hydrothermal alteratio;
genesis; geochemistry; relation; xenoliths; amphibolite;
dikes; quartz diorite; United States
Section Headings: 05 .(PETROLOGY, IGNEOUS AND METAMORPHIC)
- 703845 74-08949
The Romance of Jade
Bradt, R. C.; Newnham, R. E.; Biggers, J. V.
Earth Miner. Sci. Vol. 42, No. 4, p. 29-30, illus., 1973
CODEN: EMISAK
Subfile: B
Doc Type: SERIAL
Languages: English
Descriptors: *Minerals; *gems ; Chain silicates; pyroxene
group; properties; amphibole group ; Jadeite; Nephrite; Jade
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)
- 694646 73-33933
The Toughness of Jade
Bradt, Richard C.; Newnham, Robert E.; Biggers, J. V.
Am. Mineral. Vol. 58, No. 7-8, p. 727-732, illus., 1973
CODEN: AMMIAV
Subfile: B
Doc Type: SERIAL
Languages: English
Experimental studies, mechanical properties, strength,
fractures, SEM, jadeite and nephrite
Descriptors: *Minerals; *electron microscopy; *Deformation;
*Crystal structure; *Gems ; Chain silicates; pyroxene group;
experimental studies; Observations; Properties ; Jadeite;
nephrite; mechanical properties; fractures; Jade; scannin;
microstructure; relation; strength
Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)
- 679776 73-19051
**Tremolitovyy nefrit; produkt okolorudnogo izmeneniya
dolomitov v Kansayskom rudnom pole (Kuraminskiye gory)**
Tremolite nephrite as an effect of dolomite wallrock
alteration in the Kansay ore field, Kurama Mountains
Protod'yakonova, Z. M.; Mansurov, M.
Uzbek. Geol. Zh. No. 1, p. 20-22 (incl. Uzbek sum.), 1973
CODEN: UZGZAO
Subfile: B
Doc Type: SERIAL
Languages: Russian
Descriptors: *USSR; *Minerals ; Mineralogy; Chain silicate;
amphibole group ; Tremolite; Tien Shan; Kurama Range;
Korolevo; genesis; chemical composition
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)
- 672533 73-11803
**Novoye mestorozhdeniye nefrita Vostochnoy Sibiri
New nephrite deposit in eastern Siberia**
Babkin, A. F.; Gurulev, S. A.; Sambuyev, K. S.; Shagzhiyev,
K. Sh.
Akad. Nauk SSSR, Dokl. Vol. 204, No. 5, p. 1207-1210, illus.
(incl. geol. sketch map), 1972
CODEN: DANKAS
Subfile: B
Doc Type: SERIAL
Languages: Russian
Nephrite deposit associated with metasomatites at the
contact of amphibolites with serpentinites, petrography,
chemical composition of nephrite, between Prival'nyy and Vitim
rivers, USSR
Descriptors: *USSR; *Gems; *Metamorphic rocks ; Economic
geology; Composition ; nephrite; Siberia; southeast; chemical
composition; reserves; occurrence; amphibolite; contact;
serpentinite; mineral composition
Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)
- 666074 73-05339
**Die Jade-Gruppe
The jade group**
Galja, W.
Dtsch. Gemmol. Ges., Z. Vol. 21, No. 3, p. 152-156, 1972
CODEN: ZDGG87
Subfile: B
Doc Type: SERIAL
Languages: German
Properties of nephrite, jadeite, chloromelanite,
distribution
Descriptors: *Gems; *Minerals ; Properties; Chain silicate;
pyroxene group; amphibole group ; Jade; occurrence; Jadeit;
Nephrite
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

661003 73-00266

Glubinnyye istochniki geologicheskikh yavleniy
Geological processes at great depth
Belousov, V. V.; Belyayevskiy, N. A.
in Problemy Geologii na XXIII Sessii Mezhdunarodnogo
Geologicheskogo Kongressa, p. 44-60, illus.,
Akad. Nauk SSSR, Nats. Kom. Geol. Sov. Soyuz Moscow, 1971
Subfile: B
Languages: Russian
Descriptors: *Tectonophysics; *mantle; *magmas; Concepts;
Genesis; processes; Basalt; nephrite
Section Headings: 18 (GEOPHYSICS, SOLID EARTH)

660838 73-00095

Korngroessenverschiebung durch Lanice conchilega (Pallas)
Grain-size distribution changes through reworking by Lanice
conchilega
Wunderlich, Friedrich.
Senckenb. Mar. Vol. 2, p. 119-125 (incl. Engl. sum.), illus.
(incl. sketch map), 1970
CODEN: SBNGAI
Subfile: B
Doc Type: SERIAL
Languages: German
Marine sediments, reworking by polychaete burrow
construction, observations in Jade Bay (Germany),
sedimentologic implications
Descriptors: *Germany; *Sediments; Sedimentary petrology;
Environmental analysis; Jade Bay; Size; distribution;
reworking; Europe
Section Headings: 06 (PETROLOGY, SEDIMENTARY)

660837 73-00098

Aktuopalaentologische Beobachtungen; 9, Faunenwechsel
Observations on contemporary paleontology; 9, Faunal changes
Schaefer, Wilhelm.
Senckenb. Mar. Vol. 2, p. 85-95 (incl. Engl. sum.), illus.
(incl. sketch map), 1970
CODEN: SBNGAI
Subfile: B
Doc Type: SERIAL
Languages: German
Replacement of Cardium by Mytilus populations, Jade Bay
(Germany), paleoecologic implications (for reference to part
8, see this Bibliography Vol. 33, No. 9, 14 E69-19034)
Descriptors: *Germany; *Paleontology; *Mollusca; *ecology;
Pelecypoda; Environmental analysis; Holocene; Jade Bay;
Europe; Mytilus; Cardium; Littoral; changes; Faunal change;
interpretation
Section Headings: 08 (PALEONTOLOGY, GENERAL)

660834 73-00095

Sedimentologie und Makrobenthos der Nordergruende und der
Aussenjade (Nordsee)
Sedimentology and macrobenthos of the Nordergruende and
outer Jade bay area, North Sea
Doerjes, Juergen; Gadow, Sibylle; Reineck, Hans Erich;
Singh, Indra Bir.
Senckenb. Mar. Vol. 2, p. 31-59 (incl. Engl. sum.), illus.
(incl. sketch maps), 1970
CODEN: SBNGAI
Subfile: B
Doc Type: SERIAL
Languages: German
Sediment transport, grain-size distribution, sedimentary
structures, ecology, Germany
Descriptors: *Germany; *Sediments; *sedimentary structures;
*Ecology; *Marine geology; Sedimentary petrology; Properties;
Environmental analysis; Analysis; Atlantic Ocean; Jade Ba;
Distribution; grain size; fabric; Invertebrata; Europe;
Littoral; North Sea; southeast
Section Headings: 06 (PETROLOGY, SEDIMENTARY)

638197 72-19399

So-called "Hidaka jade" from Hokkaido, Japan
Bamba, Takeo.
Min. Geol. (Soc. Min. Geol. Jap.) Vol. 22 (1), No. 111, p.
21-30 (Jap.; Engl. sum.), illus. (incl. geol. sketch map),
1972
CODEN: KOZCAZ
Subfile: B
Doc Type: SERIAL
Languages: Japanese
Chrome diopside, network of veins, metamorphism, textures
Descriptors: *Japan; *Gems; *genesis; *Mineral deposits;
*Metamorphism; *Minerals; Economic geology; Asia; Prozesse;
Chain silicates; amphibole group; Zoning; Hokkaido; Hidak;
jade; ore deposits; Nephrite
Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

637552 72-18753

The treasure of Ogden Mountain
Owen, Larry
Lapidary J. Vol. 26, No. 1, p. 114, 116-118, 120, 146,
illus., 1972
CODEN: LAJOA6
Subfile: B
Doc Type: SERIAL
Languages: English
Jade boulders, removal procedures, British Columbia
Descriptors: *British Columbia; *Gems; *Minerals; Economic
geology; Chain silicates; amphibole group; Canada; jade;
Ogden Mountain; occurrence; production
Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

637548 72-18749

Part three; On Alaskan Jade 'The Braggin' Rock'

Munz, William.

Lapidary J. Vol. 26, No. 1, p. 50, 52-54, 56, 62, illus., 1972

CODEN: LAJDA6

Subfile: B

Doc Type: SERIAL

Languages: English

Occurrence of large nephrite boulders, removal procedures.

Kobuk; for reference to part 2, see Lapidary J., Vol. 25, No. 1, 1971

Descriptors: *Alaska; *Minerals ; Mineralogy; Chain silicates; amphibole group ; Nephrite; Kobuk; Jade; occurrence; United States

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

Descriptors: *Book reviews; *USSR; *Minerals ; Mineralogy; Chain silicates; amphibole group ; Nephrites of Siberia; Nephrite; Siberia
Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

621050 72-02096

Geologicheskkiye osobennosti i usloviya formirovaniya Vostochno-Sayanskikh mestorozhdeniy nefrita
Geological characteristics and conditions of formation of east Sayan jade deposits

Zamaletdinov, R. S.; Yakshin, I. S.

Razved. Okhr. Nedr. No. 8, p. 15-17, 1971

CODEN: RZONAV

Subfile: B

Doc Type: SERIAL

Languages: Russian

Descriptors: *USSR; *Gems ; Economic geology ; Sayan; jad; structure

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

616787 71-36116

Über den Werdegang der Salzstocke Mellum-Eversand-Scharhorn, Wangerooge und Roter Sand (Aussenjade und -weser) in Raum und Zeit**The evolution in space and time of the salt domes of Mellum-Eversand-Scharhorn, Wangerooge, and Roter Sand, Jade bay and Weser offshore area**

Hiller, Karl.

Erdoel Kohle Vol. 24, No. 3, p. 137-141 (incl. Engl. sum.), illus. (incl. sketch map), 1971

CODEN: ERKOAJ

Subfile: B

Doc Type: SERIAL

Languages: German

Salt tectonics, Triassic-Tertiary history, paleogeography, salt stock family, seismic and boring data, North Sea

Descriptors: *Germany; *salt tectonics; *Marine geology ; Structural geology; Atlantic Ocean; Europe ; Jade bay; Weser offshore area; North Sea

Section Headings: 16 .(STRUCTURAL GEOLOGY)

608173 71-27469

New occurrences of gem minerals in Australia

Chalmers, R. O.

J. Gemmol. Vol. 12, No. 7, p. 267-271, 1971

CODEN: JGGAAR

Subfile: B

Doc Type: SERIAL

Languages: English

Descriptors: *Australia; *Gems ; Economic geology ; Regional nephrite; labradorite

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

637545 72-18746

New occurrences of gem minerals in Australia

Chalmers, R. O.

Lapidary J. Vol. 26, No. 1, p. 14, 16, 1972

CODEN: LAJDA6

Subfile: B

Doc Type: SERIAL

Languages: English

Descriptors: *Minerals; *Australia; *Gems ; Chain silicates amphibole group; Framework silicates; feldspar group; Economic geology ; Nephrite; occurrence; Labradorite; Regional

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

632975 72-14058

Nephrite deposits of the Granite, the Seminoe and the Laramie mountains (Wyoming)

Sherer, Richard Lowell.

1970

Degree Level: Doctoral

Subfile: B

Doc Type: THESIS

Languages: English

Descriptors: *Wyoming; *Minerals ; Mineralogy; Chain silicates; amphibole group ; Nephrite; Granite mountain; Laramie mountain; Seminoe mountain; United States

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

629410 72-10473

Nefrity Sibiri--Nephrites of Siberia

Sokoloff, V. P.

Int. Geol. Rev. Vol. 11, No. 6, p. 713, 1969

CODEN: IGRAP

Subfile: B

Doc Type: SERIAL

Languages: English

English review of Russian book by Yu. N. Kolesnik,

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

- 605621 71-24917
Nephrites of Siberia
Kolesnik, Yu. N.
Int. Geol. Rev. Vol. 12, No. 10, 107 p., illus. (incl. geol. map), 1970
CODEN: IGREAP
Subfile: B
Doc Type: SERIAL
Languages: English
(Paginated separately), English translation of Nefrity Sibiri: Akad. Nauk SSSR, Sib. Otd., Inst. Geol. Geofiz., 150 p., Novosibirsk, 1966 (for reference to original Russian book, see this Bibliography Vol. 31, No. 6, 02 E67-04870)
Descriptors: *USSR; *Gems; *genesis; *Mineral deposits; *Minerals; *Economic geology; *Chain silicates; *pyroxene group; *jade; *nephrite; *Sayan mountains
Section Headings: 26 (ECONOMIC GEOLOGY, GENERAL & MINING)
- 523397 69-26698
Studien zur Sedimentbewegung; 1, Transportformen und Schichtbildung im Gebiet der Jade
Studies of sediment movement; part 1, Transport forms and bedding in the Jade bay region
Wunderlich, Friedrich.
Senckenbergiana Mar. Vol. 1 (Vol. 50), p. 107-133 (incl. Engl. sum.), illus., 1969
Subfile: B
Doc Type: SERIAL
Languages: German
Tidal-flat sedimentation, transport of suspended matter, movement of previously deposited material, reworking, North Sea (Germany)
Descriptors: *North Sea; *Marine geology; *Sedimentation; *Oceanography; *Sediments; *Environment; *Jade bay; *tidal flats; *Tidal flat; *movement
Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)
- 523395 69-26696
Vergleich von Schlammanalysen mit der Pipette nach Kohn und dem Atterberg-Zylinder
Comparison of sediment analyses using the Kohn (pipette) and Atterberg (cylinder) methods
Gadow, Sibylle.
Senckenbergiana Mar. Vol. 1 (Vol. 50), p. 79-83 (incl. Engl. sum.), illus., 1969
Subfile: B
Doc Type: SERIAL
Languages: German
Grain-size analyses, samples from Jade bay (Germany)
Descriptors: *North Sea; *Marine geology; *Sediments; *General; *Jade bay; *methods; *Size analysis; *Kohn; *Atterberg
Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)
- 523393 69-26694
Die Rinnen der Jade (sudliche Nordsee); Sedimente und Makrobenthos
Channels of Jade bay, southern North Sea; sediments and macrobenthonic fauna
Dorjes, Jurgen; Gadow, Sibylle; Reineck, Hans Erich; Singh, Indra Bir.
Senckenbergiana Mar. Vol. 1 (Vol. 50), p. 5-62 (incl. Engl. sum.), illus. (incl. maps), 1969
Subfile: B
Doc Type: SERIAL
Languages: German
Macoma baltica biocenosis, tidal flat and channel variants, ecologic relationships, sedimentary types-structures-distribution, Germany
Descriptors: *Marine geology; *North Sea; *Oceanography; *Bottom features; *channels; *Jade bay; *sediments; *ecology
Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)
- 515776 69-19035
Ein Stuck Bernstein und seine Einschlusse
A piece of amber and its inclusions
Siegfried, Gerhard; Rietschel, Wolfram.
Natur Mus. Vol. 98, No. 12, p. 515-520, illus., 1968
Subfile: B
Doc Type: SERIAL
Languages: German
Insect inclusions, Tertiary amber, Mellum, Jade bay, Germany
Descriptors: *Germany; *Insecta; *Tertiary; *Paleontology; *Jade bay; *Mellum; *amber
Section Headings: 10 (PALEONTOLOGY, INVERTEBRATE)
- 508336 69-11608
Mineralogiya i genezis nefrita iz Yordanova (Nizhnyaya Sileziya, Pol'sha)
The mineralogy and genesis of nephrite from Jordanov, Lower Silesia, Poland
Geflik, V.
Vses. Mineral. Obshchest., Zap. Vol. 97, No. 1, p. 96-99, illus., 1968
Subfile: B
Doc Type: SERIAL
Languages: Russian
Tremolitization of diopside in serpentinite
Descriptors: *Poland; *Mineral data; *Mineralogy; *Nephrite; *Jordanov; *Genesis
Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)
- 478761 68-05251-N
The serpentine mineral group
McKague, H. Lawrence
Gems and Gemology v. 12, no. 11, p. 326-332, 356, illus., (cont. next page)

DIALOG File 89: GEOREF - 1785-1986/AUG (Copr. American Geological Institute)

tables, 1968

Subfile: N

Serpentine, the most common jade substitute, is a mineral group consisting of antigorite, lizardite and chrysotile. Because of their nearly identical chemical composition, these minerals have similar physical properties; some of the more common varietal names, along with a description are tabulated. Most varieties have been shown to be nonserpentine minerals, mixtures of the three recognized in the group, or slight variations in texture or color of each. Structure of the three is described. Serpentinites, rock consisting primarily of serpentine minerals, have two distinctive origins: from alteration of ferromagnesian igneous rock and from alteration of carbonate sedimentary rocks rich in Mg. Their serpentinization is discussed briefly. Serpentinites that are chiefly antigorite have the durability and beauty required for gems.

Descriptors: *Gems; *Mineral data ; Serpentine ; Mineral varieties; origin; properties; Composition; structure; gem quality

477783 68-04698

Die Entstehung von "convolute bedding" an Platenrandern

The origin of convolute bedding on the margins of sand flats

Wunderlich, Friedrich.

Senckenbergiana Lethaea Vol. 48, No. 3-4, p. 345-349 (incl. Engl. sum.), illus., 1967

Subfile: E

Doc Type: SERIAL

Languages: German

The formation of convolute bedding in water-saturated unconsolidated sediments of the Jade bay region, North Sea, Germany, is described as intrastratal flow in sandy beds whose stability was disrupted by drainage of the sea water under the influence of offshore winds.

Descriptors: *Germany; *Sedimentary structures; *Sediments ; Sedimentary petrology; Convolute bedding; General ; Structures; Jade bay; North Sea; genesis

Section Headings: 06 (PETROLOGY, SEDIMENTARY)

477779 68-04696

Faziesbereiche rezenter und subrezenter Wattensedimente nach ihren Foraminiferen-Gemeinschaften

The facies areas of recent and subrecent mud flat sediments according to their foraminiferal populations

Richter, Gotthard.

Senckenbergiana Lethaea Vol. 48, No. 3-4, p. 291-335 (incl. Engl. sum.), illus. (incl. sketch maps), 1967

Subfile: E

Doc Type: SERIAL

Languages: German

The foraminiferal populations typical of six different types of environment in the tidal flats of the Jade bay and Weser estuary (North Sea), Germany, are described. The data serve as a guide to interpretation of subrecent marine sediments which

occur between the recent marsh surface and the Pleistocene level near Bremerhaven. The most important single factor influencing the biotopes is water movement (swell, currents).

Descriptors: *North Sea; *Marine geology; *Paleoecology; *Foraminifera; *Sediments; *Oceanography ; Quaternary; Paleontology; Environment ; Paleontology and sediments; Jade bay-Weser estuary; shallow marine; Recent; ecology

Section Headings: 07 (MARINE GEOLOGY AND OCEANOGRAPHY)

477210 68-04390

An albite-tremolite decorative rock

Webster, Robert.

J. Gemmol. Vol. 10, No. 2, p. 59-60, 1966

Subfile: E

Doc Type: SERIAL

Languages: English

The mineralogic term jade should be restricted to nephrite, the compact amphibole of the tremolite-actinolite series, and to the pyroxene jadeite. The term jade matrix is proposed for related materials.

Descriptors: *Mineral data; *Gems ; Nephrite; Nomenclature; Jadeite ; Jade

Section Headings: 01 (MINERALOGY AND CRYSTALLOGRAPHY)

465988 69-09662-N

TRACE ELEMENTS OF JADE

RONZIO, A. R.; SALMON, MERLYN.

GEMS AND MINERALS, NO. 381, P. 29 1969

Subfile: N

Descriptors: *GEMS; *GEOCHEMISTRY; *JADE; *NORTH AMERICA; *TRACE-ELEMENT ANALYSES

458221 67-10633

Primary sedimentary structures in the Recent sediments of the Jade, North Sea

Reineck, Hans Erich; Singh, Indra B.

Mar. Geol. Vol. 5, No. 3, p. 227-235, illus. (incl. sketch maps), 1967

Subfile: E

Doc Type: SERIAL

Languages: English

Primary sedimentary structures in the Jade sediments are investigated. The most common types of bedding in these sediments are the mega ripple bedding, associated with medium and coarse sand and the small ripple bedding with mud flasers, restricted to fine sand. It suggests that under the same current velocity conditions different types of bedding could be produced, depending upon the grain size of the sediments. Bioturbation is more prominent in the finer sediments than in the coarser.

Descriptors: *North Sea; *Marine geology ; sediments ; Jad; structures

(cont. next page)

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Section Headings: 09 .(PALEONTOLOGY, PALEOBOTANY)

448412 67-04870

Nephrite Sibir

Kolesnik, Yuriy Nikolayevich.

Akad. Nauk SSSR, Sib. Otdel., Inst. Geol. Geofiz. 150 p., illus. (incl. geol. sketch maps), Novosibirsk, 1966

Subfile: E

Languages: Russian

A review of the distribution of nephrite occurrences throughout the world is followed by a detailed petrographic and mineralogic description of occurrences in the eastern Sayan region, Siberia. At two localities, bedrock nephrite occurs in metasomatized ultrabasic rocks (serpentinites and albitites). Although known reserves are not large, the discovery of additional occurrences is considered promising.

Descriptors: *USSR; *Gems; *Mineral deposits; *genesis; *Mineral data ; Economic geology; nephrite ; Sayan

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

447481 67-04386

Nephrite and blue chalcedony from Taiwan

Huang, C. K.

Geol. Soc. China, Proc. No. 9 (1965), p. 11-19 (incl. Chin. sum.), illus. (incl. sketch map), 1966

Subfile: E

Doc Type: SERIAL

Languages: English

Gem-quality nephrite jade occurs as gangue material in asbestos deposits in the contact zone of graphite schist and serpentinite near Hualien; gem-quality blue chalcedony forms an essential constituent of cavity fillings in andesitic agglomerate north of Taitung. Data on their physical, x-ray, and chemical properties, infrared spectra, and density are reported.

Descriptors: *Formosa; *Gems; *Mineral data; *X-ray diffraction analysis; *Major-element analyses ; Economic geology; Jade; Chalcedony; Data ; east; jade and chalcedon; occurrences; mineralogy; gem quality; Chalcedony and jade

Section Headings: 26 .(ECONOMIC GEOLOGY, GENERAL & MINING)

445069 67-03116

Structures in the basic belt of the Bushveld complex [with discussion]

Biljon, S. van.

Geol. Soc. S. Africa, Trans. Vol. 66, p. 11-47, illus. (incl. sketch map), 1963

Subfile: E

Doc Type: SERIAL

Languages: English

Structures in the anorthosite, so-called South African jade, chromitite, and magnetite of the basic belt of the Bushveld complex are compared among themselves and with limestone and associated "chert" of the Pretoria series (Precambrian) transgressed by the belt. The different types of structures observed exhibit many analogous and in some cases identical

features suggesting that origin was due to metasomatic processes that acted selectively on preexisting carbonate strata.

Descriptors: *South Africa; *Metasomatism; *Sedimentary rocks; *Igneous rocks; *Paragenesis; *Lineation ; Petrology; Carbonate; Basic; Basics ; Bushveld complex; basic belt; structures; Alteration; Textures; carbonate metasomatic structures; similar to associated carbonates

Section Headings: 01 .(MINERALOGY AND CRYSTALLOGRAPHY)

416605 66-05503-N

Nephrite jade in Mariposa County

Evans, James R.

California Div. Mines and Geology Mineral Inf. Service v. 19, no. 9, p. 135-147, illus., tables, 1966

Subfile: N

Jade was found in Mariposa County, Calif., in September 1962 and discoveries to date indicate a jade province of about 13 sq mi. The nephrite occurs in lenses associated with serpentine, and in boulders. The Coulterville-Bagby area is described, and a map showing jade locations is included. Methods of mining, and of evaluating and prospecting are discussed. Comparison of the forms of minerals which have been called jade is tabulated, and the properties of nephrite jade are described. A geologic map of the Mandarin-Empire deposit is included.

Descriptors: *Gems; *California; *Mineral data ; nephrite; Mineralogy; Economic geology ; Mariposa County; jade; properties

414509 66-03096-N

The handbook of jade

Hemrich, Gerald I.

Mentone, Calif., Gembooks 80 p., illus., 1966

Subfile: N

The contents of this book are: the stones called jade (nephrite, jadeite), jade curiosities, jade color and quality, pseudojades, buying jade, assembling a jade collection, field collecting, jade location (United States and worldwide), how to work jade, carving jade, and an appendix on polishing and other techniques.

Descriptors: *Mineral collecting; *Gems ; Guides; Jade ; Handbook

411395 65-14959-N

Gemstones and lapidary minerals of western Canada

Leaming, S. F.

Lapidary Jour. v. 19, no. 1, p. 175-181, illus., 1965

Subfile: N

Occurrences of gemstones and lapidary minerals in British Columbia and a few in Alberta, Saskatchewan, Manitoba, Northwest Territories, and the Yukon are summarized. A sketch (cont. next page)

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index map of western Canada shows the collecting localities in relation to main highways, with references to detailed maps. Most of the material comes from the Precambrian bedrock of the Canadian Shield; some still is found in bedrock but much has been transported southward by glaciation. British Columbia is best known for jade, rhodonite, and agate.

Descriptors: *British Columbia; *Canada; *Gems; *Mineral collecting; *Mineralogy; *Gemstones and lapidary minerals; *Occurrences; *western; *collecting localities; *gemstones and lapidary material

408604 65-071111-N

Jade in California (2d edition)

Pages of History

Sausalito, Calif., Pages of History 29 p., illus., 1965

Subfile: N

Topics covered in this edition are: romance of jade; nephrite and jadeite; jade in California, on the beach, in the mountains, and in the desert; and how to prospect. A bibliography of 67 items is appended.

Descriptors: *California; *Gems; *Mineral collecting; *Mineralogy; *Jade; *Nephrite and jadeite; *localities and collecting

402582 64-07206-N

Recent developments in Jade-Buttram area of Salt Lake oil field

Crowder, R. E.; Johnson, R. A.

California Div. Oil and Gas, California Oil Fields--Summ. Operations Jan.-June 1963 v. 49, no. 1, p. 53-59, illus., 1964

Subfile: N

This is a brief summary of the areal geology, history, and production of the Jade-Buttram area of Salt Lake oil field, Los Angeles County, Calif.

Descriptors: *California; *Petroleum; *Oil and gas fields; *Areal geology; *Economic geology; *Salt Lake oil field; *Jade-Buttram area; *production and history

402251 64-06701-N

Inclusions in jade, Pt. 1

Bergsten, Lawrence J.

Lapidary Jour. v. 17, no. 11, p. 1076-1078, 1080, illus., 1964

Subfile: N

The discussion is based on photographs of specimens of nephrite from the author's collection. Quartz crystal inclusions are discussed in detail, but a number of others are shown.

Descriptors: *Mineral descriptions; *Inclusions; *Nephrite; *Quartz

401196 64-05205-N

Pyroxene

Farr, Jay

Earth Sci. v. 17, no. 3, p. 122-124, 1964

Subfile: N

Instructions are given to the amateur mineralogist for distinguishing pyroxenes from amphiboles. Jadeite and nephrite are cited as examples.

Descriptors: *Mineral descriptions; *Popular and elementary geology; *Pyroxene; *Distinction from amphibole; *elementary account; *crystal structure

390341 62-07033-N

Jade--Stone of heaven, Chaps. 1-12

Gump, Richard

Garden City, New York, Doubleday and Co., Inc. p. 1-55, illus., 1962

Subfile: N

Descriptors: *Gems; *Popular and elementary geology; *Jade; *Genesis and properties; *popular account; *Genesis and properties

388986 62-05645-N

Placer

British Columbia Department of Mines

British Columbia Dept. Mines Ann. Rept. 1961 p. 118-137, illus., 1962

Subfile: N

Descriptors: *British Columbia; *Gems; *Economic geology; *Jade; *geology and occurrences

388092 62-04719-N

The jade of Wyoming

Gosse, Ralph C.

Rocks and Minerals v. 37, nos. 5-6, p. 280-281, 1962

Subfile: N

Descriptors: *Wyoming; *Gems; *Mineralogy; *Jade

387555 62-04147-N

Hunting for jade in Michigan

Greenlee, Julian

Lapidary Jour. v. 16, no. 1, p. 78-81, illus., 1962

Subfile: N

Descriptors: *Michigan; *Mineral collecting; *Mineralogy; *Jade; *collecting localities; *localities

387336 62-03920-N

New nephrite find in northern California

Simmons, Earl

Lapidary Jour. v. 16, no. 5, p. 542, illus., 1962

Subfile: N

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Descriptors: *California; *Mineral collecting ; Mineralogy
; Nephrite; northern

PRINTS SUMMARY

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Set	Items	Description
1	57	JADE
2	38	NEPHRITE
3	86	S1 OR S2
4	239796	PY=1979:1986
5	239796	S4 AND S4
6	28	S4 AND S3
7	0	IGNOFF

Prints requested ('*' indicates user print cancellation) :

Date	Time	Description
01sep	02:51EST	PO04: PR 6/5/1-28

Total items to be printed: 28

A **DIALOG*** SEARCH FROM THE GEOARCHIVE DATABASE

For: _____

Address: _____

If you have any questions, please call:

Telephone: _____

Topic of search: _____

Searcher: _____

Date: _____

The attached report is the result of a search of the GEOARCHIVE database using the Dialog Information Retrieval Service.

GEOARCHIVE is a comprehensive geoscience database indexing more than 100,000 references each year. Information indexed annually for GEOARCHIVE includes more than 5,000 serials, books from more than 1,000 publishers, several hundred conferences, doctoral dissertations, and technical reports. About 100,000 geological maps from the Institute of Geological Sciences libraries are being indexed and added to GEOARCHIVE. GEOARCHIVE as such has no printed equivalent, but several secondary publications are printed from the information contained in the GEOARCHIVE database including Geotitles Weekly, Geocom Bulletin, Geoscience Documentation, and the Bibliography of Vertebrate Paleontology. Mineral and petroleum production and resources, names of new taxa, new minerals, and new stratigraphic names are specific examples of the data currently being entered into GEOARCHIVE, which broadly covers the fields of geophysics, geochemistry, geology, and mathematical geology.

SAMPLE RECORD

The positions of the key fields are shown in the following sample record.

JA AN 0490079 GA399001086
 TI Quadra sand a study of the late Pleistocene geology and geomorphic history of coastal southwest British Columbia
 AU CLAGUE, JJ
 JN Pap Geol Surv Can (Ottawa)
 PY 1977
 77/17 24P
 JC PGSCAI
 LA LANGUAGE: ENGLISH
 DE DESCRIPTORS; LITHOSTRATIGRAPHIC UNITS; SANDSTONES & QUARTZITES; STRATIGRAPHIC NOMENCLATURE; SEDIMENTARY STRUCTURES; SEDIMENTARY ROCKS
 GS AUXILIARY DESCRIPTORS: BRITISH COLUMBIA; COASTAL AREAS; PLEISTOCENE
 DC DESCRIPTOR CODES: 763500; 553300; 761800; 556000; 552000
 GC AUXILIARY DESCRIPTOR CODES: 743700; 006000; 091000
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Key to Data Fields

AN	Geosystems Acc. No.	JA	Journal Announcement
AU	Author	JC	Journal Code
BN	Book Number	JN	Journal Name
DC	Descriptor Code	LA	Language
DE	Descriptor	PU	Publisher
DT	Document Type	PY	Publication Year
GC	Auxiliary Descriptor Code	TI	Title
GS	Auxiliary Descriptor		

Data present in record depends on output format requested and type of record.

DIALOG File 58: GEOARCHIVE - 74-85/Jul (Copr. Geosystems)

0812235 GA736000775

An investigation of nephrite jade by electron microscopy

DORLING, M; ZUSSMAN, J

Mineral Mag (London) 49/1 P31-36 1985 JRNL CODE: MMUMSI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; ELECTRON MICROSCOPY

DESCRIPTOR CODES: 525400; 822500

0810621 GA735001156

Wyoming jade; the proliferation of gem and lapidary hobbyists has greatly influenced prospecting activities for jade in Wyoming

MADSON, ME

Rocks Miner (New York) 58/5 P218-222 1983 JRNL CODE: RMINPI

LANGUAGE: ENGLISH

DESCRIPTORS: JADE (GEM); MINERAL EXPLORATION; MINERALOGY

AUXILIARY DESCRIPTORS: WYOMING

DESCRIPTOR CODES: 483930; 333000; 510000

AUXILIARY DESCRIPTOR CODES: 793500

0810619 GA735001154

Jade, gold and topaz from the Cassiar Mountains, British Columbia/Yukon Territory, Canada

GRICE, JD; GAULT, RA

Rocks Miner (New York) 60/1 P9-13 1985 JRNL CODE: RMINPI

LANGUAGE: ENGLISH

DESCRIPTORS: SEMI-PRECIOUS STONES; GOLD ORES; TOPAZ (GEM)

AUXILIARY DESCRIPTORS: BRITISH COLUMBIA; YUKON

DESCRIPTOR CODES: 483000; 423000; 483800

AUXILIARY DESCRIPTOR CODES: 743700; 743300

0783664 GA700001302

Colour of nephrite and amethyst in the light of the latest mineralogical studies

HEFLIK, W; NATKANIEC-NOWAK, L; PITERA, H

Przegł Geol (Warsaw) 30/3 P119-121 1982 JRNL CODE: PGWARI

LANGUAGE: POLISH

DESCRIPTORS: SILICA MINERALS; TREMOLITE-FERROACTINOLITE SERIES; OPTICAL PROPERTIES OF MINERALS

DESCRIPTOR CODES: 528300; 525400; 510500

0780773 GA692003024

A petrography of 'jade axes' from the eastern and southern Netherlands

OVERWEEL, CJ

Geol Mijnbouw (Leiden) 62/3 P427-430 1983 JRNL CODE: GMIJNI

LANGUAGE: ENGLISH

DESCRIPTORS: ARTIFACT PETROLOGY; SPODUMENE & JADEITE; TREMOLITE-FERROACTINOLITE SERIES; ECLOGITES

AUXILIARY DESCRIPTORS: NETHERLANDS

DESCRIPTOR CODES: 782500; 524600; 525400; 549950

AUXILIARY DESCRIPTOR CODES: 202000

0778989 GA692001229

Clinozoisitic rocks in the nephrite area of Fengtien to Silin, Huailien

CHEN, CC

Proc Geol Soc China (Taipei) 25 P53-66 1982 JRNL CODE: PGSCHI

LANGUAGE: ENGLISH

DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; EPIDOTE GROUP; ASBESTOS DEPOSITS; MINERAL EXPLORATION; GEOCHEMISTRY

AUXILIARY DESCRIPTORS: TAIWAN

DESCRIPTOR CODES: 525400; 521800; 472100; 333000; 660000

AUXILIARY DESCRIPTOR CODES: 545000

0735688 GA649000577

The filamentary caethite in the Hei-Wang type limonite ore deposit in Lu-Zhong of China - a new type of jade raw material

SUN, WJ; WANG, FQ; ZHANG, ML

J Changchun Geol Inst Dizhi Xucyuan Xuebao (Chang 2 P29-32 1980 JRNL CODE: JCGICI

LANGUAGE: CHINESE

DESCRIPTORS: SEMI-PRECIOUS STONES; SPODUMENE & JADEITE; LIMONITIC ORES

AUXILIARY DESCRIPTORS: CHINA

DESCRIPTOR CODES: 483000; 524600; 421400

AUXILIARY DESCRIPTOR CODES: 501000

0704313 GA609000590

Heat capacities of the alkali feldspars between 350 and 1000 K from differential scanning calorimetry, the thermodynamic functions of the alkali feldspars from 298.15 to 1400 K and the reaction quartz + jadeite = analbite

HEMINGWAY, BS; KRUPKA, KM; ROBIE, RA

Am Mineral (Washington DC) 66/11-12P10388-104 1981 JRNL CODE: AMINEI

LANGUAGE: ENGLISH

DESCRIPTORS: ALKALI FELDSPARS; CHEMISTRY OF MINERALS; THERMODYNAMICS

DESCRIPTOR CODES: 528100; 510300; 661200

0686464 GA591000732

Africa's 'jade' mined, carved and exported by a local firm (verdite, quartz)

Min Eng (Salisbury) 46/8 P9-11 1981 JRNL CODE: MENGSI

LANGUAGE: ENGLISH

DESCRIPTORS: QUARTZ (GEM)

AUXILIARY DESCRIPTORS: ZIMBABWE

DESCRIPTOR CODES: 483500

AUXILIARY DESCRIPTOR CODES: 677000

DIALOG File 58: GEOARCHIVE - 74-85/Jul (Copr. Geosystems)

0680639 GA586000737
North Carolina nephrite
ZEITNER, JC
Lapidary J (San Diego) 35/6 P1180-1192 1981 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; MINERAL
COLLECTING; GEMSTONES
AUXILIARY DESCRIPTORS: NORTH CAROLINA
DESCRIPTOR CODES: 525400; 310300; 481000
AUXILIARY DESCRIPTOR CODES: 778000

0673874 GA582000692
Jade discovered in North Carolina
Lapidary J (San Diego) 35/4 P923 1981 JRNL CODE: LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL DISCOVERIES
AUXILIARY DESCRIPTORS: NORTH CAROLINA
DESCRIPTOR CODES: 483000; 333100
AUXILIARY DESCRIPTOR CODES: 778000

0672131 GA581000768
A block of jade
PELOUBET, D
Lapidary J (San Diego) 35/5 P1054-1057 1981 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL COLLECTING;
SAMPLE PREPARATION
DESCRIPTOR CODES: 483000; 310300; 824000

0666242 GA577000076
Looking for jade
PICARD, MD
J Geol Educ (Washington DC) 29/3 P140-142 1981 JRNL CODE:
JGEDUI
LANGUAGE: ENGLISH
DESCRIPTORS: MINERAL COLLECTING; SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: UTAH
DESCRIPTOR CODES: 310300; 483000
AUXILIARY DESCRIPTOR CODES: 795700

0639861 GA554000525
Australia major supplier of jade soon
Asia Min (Manila) 13/4 P28 1980 JRNL CODE: AMINMI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: AUSTRALIA
DESCRIPTOR CODES: 483000
AUXILIARY DESCRIPTOR CODES: 573000

0621023 GA536000448
Australia likely to be major supplier of jade
STONE, J
Gems Gemol (Los Angeles) 16/9 P331 1980 JRNL CODE: GGEMOI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; SPODUMENE & JADEITE
AUXILIARY DESCRIPTORS: AUSTRALIA
DESCRIPTOR CODES: 483000; 524600
AUXILIARY DESCRIPTOR CODES: 573000

0619984 GA535000560
Nephrite occurrences in the granite mountains region of Wyoming
MADISON, ME
Lapidary J (San Diego) 33/9 P2008-2013 1979 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; GRANITES &
ADAMELLITES; CHEMISTRY OF MINERALS; PHYSICAL PROPERTIES OF
MINERALS
AUXILIARY DESCRIPTORS: WYOMING
DESCRIPTOR CODES: 525400; 543100; 510300; 510400
AUXILIARY DESCRIPTOR CODES: 793500

0606360 GA521000605
Termination of planar defects in the amphibole mineral nephrite observed by high-resolution electron microscopy
MALLINSON, LG
Acta Crystallogr Sect A Cryst Phys Diffr (Copenha 36/3
P378-38 1980 JRNL CODE: ACACPI
LANGUAGE: ENGLISH
DESCRIPTORS: CRYSTAL IRREGULARITIES; TREMOLITE-FERROACTINOL
ITE SERIES; ELECTRON MICROSCOPY
DESCRIPTOR CODES: 515400; 525400; 822500

0603399 GA518000583
Chemical formula and condition of formation of the Taiwan nephrite
CHEN, CH
Ti-Chih (Taipei) 2 P59-68 1979 JRNL CODE: TCHIH
LANGUAGE: CHINESE
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; CHEMISTRY OF
MINERALS
AUXILIARY DESCRIPTORS: TAIWAN
DESCRIPTOR CODES: 525400; 510300
AUXILIARY DESCRIPTOR CODES: 545000

0600845 GA516000057
Geology in China plus jade in China
PEARL, RM
Earth Sci (Colorado Springs) 32/1 P10-11 1979 JRNL CODE:
(cont. next page)

DIALOG File 58: GEOARCHIVE - 74-85/Jul (Copr. Geosystems)

ESCI EI

LANGUAGE: ENGLISH
DESCRIPTORS: REGIONAL GEOLOGY; SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: CHINA
DESCRIPTOR CODES: 200000; 483000
AUXILIARY DESCRIPTOR CODES: 501000

0597022 GA511000427

Variety spices a trip to the Jade Cove area (San Francisco Bay)

Lapidary J (San Diego) 34/5 P918-924 1980 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: CALIFORNIA; COASTAL AREAS
DESCRIPTOR CODES: 483000
AUXILIARY DESCRIPTOR CODES: 796300; 006000

0586708 GA501000568

The internal structure of nephrite experimental and computational evidence for the coexistence of multiple-chain silicates within an amphibole host

MALLINSON, LG; JEFFERSON, DA; THOMAS, JM; HUTCHISON, JL
Philos Trans R Soc Lond Ser A Math Phys Sci (Lond
295/1416P537-552 1980 JRNL CODE: PTRSAI
LANGUAGE: ENGLISH
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; CRYSTALLOGRA
PHY; CRYSTAL IRREGULARITIES; SCANNING ELECTRON MICROSCOPY;
COMPUTER METHODS
DESCRIPTOR CODES: 525400; 515000; 515400; 822600; 830000

0586450 GA501000310

Advances in jade mining in Australia

Retail Jeweller (London) 18/434 P3 1980 JRNL CODE: RJWEI
LANGUAGE: ENGLISH
DESCRIPTORS: PRODUCTION MANAGEMENT; SEMI-PRECIOUS STONES
AUXILIARY DESCRIPTORS: AUSTRALIA
DESCRIPTOR CODES: 353000; 483000
AUXILIARY DESCRIPTOR CODES: 573000

0581423 GA496000691

Nephrite occurrences in the Granite Mountains region of Wyoming (repr inted from Annu Field Conf Guideb, Wyoming Geol Assoc (30/1978) p393- 397)

MADISON, ME
Lapidary J (San Diego) 33/9 P2008-2013 1979 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: TREMOLITE-FERROACTINOLITE SERIES; SEMI-PRECI
S STONES
AUXILIARY DESCRIPTORS: WYOMING
DESCRIPTOR CODES: 525400; 483000
AUXILIARY DESCRIPTOR CODES: 793500

0581320 GA4960000588

South Australians feel far from jaded now (South Australia may become major jade supplier, reserves upgraded at Cowell, Eyre Peninsula)

Miner Newspaper (Sydney) 3/1 P1 1980 JRNL CODE: MNEWPI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; RESERVE AND RESOURCE
ESTIMATION
AUXILIARY DESCRIPTORS: SOUTH AUSTRALIA
DESCRIPTOR CODES: 483000; 352000
AUXILIARY DESCRIPTOR CODES: 583000

0580996 GA4960000263

Possibilities of geochemical prospecting of nephrite deposits in Lower Silesia

LIS, J; SYLWESTRZAK, H
Przegł Geol (Warsaw) 27/10 P547-548 1979 JRNL CODE:
PGWARI
LANGUAGE: POLISH
DESCRIPTORS: EXPLORATION GEOCHEMISTRY
AUXILIARY DESCRIPTORS: SILESIA
DESCRIPTOR CODES: 336000
AUXILIARY DESCRIPTOR CODES: 331000

0567207 GA480002120

ABC of lapidary gemstones: moonstone and nephrite
TASKER, P

Gem Craft (Hemel Hempstead) 7/11 P640 1979 JRNL CODE:
GCRAFI
LANGUAGE: ENGLISH
DESCRIPTORS: ALKALI FELDSPARS; SPODUMENE & JADEITE
DESCRIPTOR CODES: 528100; 524600

0553843 GA470000440

Jade and gemstones from southern New Zealand
BECK, RJ

Lapidary J (San Diego) 33/1 P186-190 1979 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL COLLECTING
AUXILIARY DESCRIPTORS: SOUTH ISLAND
DESCRIPTOR CODES: 483000; 310300
AUXILIARY DESCRIPTOR CODES: 594000

0552605 GA469000393

Jade and gemstones from southern New Zealand
BECK, RJ

Lapidary J (San Diego) 33/1 P186-190 1979 JRNL CODE:
LJOURI
LANGUAGE: ENGLISH
DESCRIPTORS: SEMI-PRECIOUS STONES; MINERAL COLLECTING
(cont. next page)

PRINTS

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AUXILIARY DESCRIPTORS: SOUTH ISLAND
DESCRIPTOR CODES: 483000; 310300
AUXILIARY DESCRIPTOR CODES: 594000