

# **“Gill's Historical Index To Gems And Jewelry Online”,**

## **Including Journals, Articles And Books From 1652 Until 2009 \***

**(\*20,000 listings over a period of 350 years, containing all works in the English language arranged chronologically and by subject, with over 350 direct links to download or read the entire text on the internet (right click on any internet link, while on the internet, and click “Open Hyperlink” or “Open Weblink in Browser”). In an all NEW easily searchable format, just CLICK - CTRL+F and type in anything: persons name, famous gem, locality, title keyword, year, etc.. This Publication is being offered free and in WORD 2007 so any people can add any new or additional texts on their own copy)**

**(download for FREE at <http://www.archive.org/details/texts> or <http://www.Worldglobetrotters.com> )**

**By Joseph O. Gill, BSC, GG, FGA**

Gemologist, by the Gemological Institute of America  
Certified Gemologist of the American Gem Society  
Fellow of the Gemmological Association of Great Britain



Fig. 1, Joseph O. Gill, the author, in his library at Gill and Shortell, Ltd., San Francisco, CA, 1987

Born on March 2, 1949 in Portland, Oregon I spent the first 20 years of my life in Vancouver, Washington; just across the Columbia River from Portland.

I worked for J. & S.S. DeYoung's in Boston as their gemologist and buyer from 1974 – 1980.

John Merion, the President of Sotheby's, NYC called me at DeYoung's in February 1980 and offered me a directorship over all jewelry sales in the western U.S.A., based in Los Angeles.

I have authored a number of articles on gemology that have appeared in the Gems and Gemology, Lapidary Journal, Jeweler's Circular Keystone, Modern Jeweler among other publications.

I started my own business in San Francisco, Sept 6, 1981, Gill and Shortell, Ltd., San Francisco, CA, and retired Sept. 6, 1988.

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Fig. 2, A small part of, “**The Gill Collection of Historical Gem Books**”, all sold in four, single owner sales, at Christie’s, world famous auction house, Madison Avenue, New York City. The Gill Collection was included as part of the sale catalog, “**Magnificent Jewels**”. The jewels and gems brought in over 20 million dollars in each sale. 1<sup>st</sup> sale: Wednesday, October 21, 1987; 2<sup>nd</sup> sale: Tuesday, December 2, 1987; 3<sup>rd</sup> sale: Wednesday, April 20, 1988 & the last, 4<sup>th</sup> and final, single owner sale: Tuesday, June 7 1988. The Introduction to this book sale is written by Neil Letson of Anniston, Alabama, a very noted writer for Christies, as well as The Smithsonian Magazine, Connoisseur, The Saturday Evening Post, The Atlantic Monthly, etcetera. This Introduction covers the origins of this unique book collection. To date, 2009, this is the largest and most important public auction of a book collection on this subject, which has ever been sold, worldwide. The four different Christie’s catalogs entitled, “**The Gill Collection of Historical Gem Books**”, contain an excellent bibliography of books and publications on the subject of gems, gemology and jewelry in English and are much sought after by collectors. (download for FREE at me web site [www.worldglobetrotters.com](http://www.worldglobetrotters.com) or at <http://www.archive.org/details/texts>)

For the much more interesting story and historical origins of “**Gill's Historical Index To Gems And Jewelry Online - Appendix 1 - How and Why it Was**

**Created**”, (download for FREE at me web site [www.worldglobetrotters.com](http://www.worldglobetrotters.com) or at <http://www.archive.org/details/texts>)

Please visit the home page of our website: “Our 25 year trip around the World”

[www.worldglobetrotters.com](http://www.worldglobetrotters.com)

Email me at: [gilljoseph1949@yahoo.com](mailto:gilljoseph1949@yahoo.com)

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A medieval lapidary  
From **Hortus Sanitatis**



Fig. 3, **5000 Years of Gems and Jewelry**, 1947,



by Frances Rogers and Alice Beard, 309 pp.

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All rights reserved. The author while in Katmandu, Nepal, has rescanned this index at very high DPI resolution so that he could properly OCR the text. He has also updated the texts as best as he could with the somewhat limited resources that were at hand and has published this new free online version for use by all that are interested. The author retains the full copyright and exclusivity as to where this index will be posted or distributed. No part of this work covered by the copyright herein may be reproduced or used in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems—without written permission of the author. Contact Joseph O. Gill, BSC, GG, FGA, Email: [gilljoseph1949@yahoo.com](mailto:gilljoseph1949@yahoo.com), Website: [www.worldglobetrotters.com](http://www.worldglobetrotters.com)

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The Robert Mouawad Campus  
5345 Armada Drive  
Carlsbad, CA 92008  
USA

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Fig. 4 “Gill's Historical Index To Gems And Jewelry Online” is dedicated to Dr. George Frederick Kunz (1856-1932)

## **“The Father of American Gemology”**

**For a full biography and listing of all George Frederick Kunz’s books & papers, simply do a search herein.**

(Just CLICK - CTRL+F and type in “Kunz”. With all his books and many of his papers online use the direct links herein to download or read the entire text on the internet (right click on any internet link, while on the internet, and click “Open Hyperlink” or “Open Weblink in Browser”).

**You will also find the listed references below to be complete:**

**“The Gill Collection of Historical Gem Books”**, Christie’s New York Catalog, **“Magnificent Jewels”**, Wed. April 20, 1988, pp. 10 & 16-28, contains a full bibliography of George Frederick Kunz's writings. (download for FREE at <http://www.archive.org/details/texts>)

## **THE GEMMOLOGIST**

July 1932, A Memorial to George Frederick Kunz, p. 383, 3pp. (See also Sept. 1932, p. 51, 1p.)

Sept.-Oct. 1934, George Frederick Kunz library goes to U.S.G.S., p. 140, 1p.

## **LAPIDARY JOURNAL**

Oct. 1948, George Frederick Kunz, p. 204

Dec. 1948, George Frederick Kunz, p. 357

Nov. 1968, Reminiscences of Dr. George Frederick Kunz, p. 1011, 11pp.

#2: Dec. 1968, p. 1138, 9pp.

#3: Jan. 1969, p. 1292, 14pp.

#4: Feb. 1969, p. 1406, 12pp.

#5: March 1969, p. 1538, 15pp.

#6: April 1969, p. 27, 9pp.

1933, **Memorial of George Frederick Kunz**, by P. F. Kerr, Journal of the Mineralogical Society of America, Vol. 18, #3, March, pp. 91-94

1933, **Memorial of George Frederick Kunz**, by H. P. Whitlock, Bulletin, Geological Society of America, Vol. 44, pp. 377-394, contains a full bibliography of George Frederick Kunz's writings

**Bibliography of George Frederick Kunz**, Compiled by the GIA’s Richard T. Liddicoat Gemological Library and Information Center at

<http://www.gia.edu/library/38410/bibliographies.cfm> **Download** this important pdf file at <http://lgdl.gia.edu/pdfs/library/kunz-Bibliography.pdf>

Most of George Frederick Kunz’s books can be downloaded for FREE at

<http://www.archive.org/details/texts> and many other early gem and jewelry books can be downloaded for FREE at <http://www.archive.org/details/texts>

and all of the links are noted in the texts of “Gill’s Historical Index To Gems And Jewelry Online”).

ALL of George Frederick Kunz’s books and most of his annual reports on “Precious Stones” for Mineral Resources 1882-1921 can be read online at: <http://www.farlang.com/> in “The Library” & many other early gem and jewelry books are readable at Farlang and all the links are noted in the texts of “Gill’s Historical Index To Gems And Jewelry Online”.

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### **Preface**

**Introduction:** A Historical Review on each of the Journals Indexed in this text

## SECTIONS

**\*Note:** The original Manuscript copy of “Gill’s Index” is in 2 very large volumes. Volume #1 includes, Part One: Gems & Gem Materials & Volume #2 includes Part Two through Part Four (about half the text of the book). Both these unique, original manuscript volumes were being transported from the 2007 Tucson Mineral Show by a representative of the GIA and were left in an unattended parked car. Volume 2 was stolen with all the updates that I had been working on for over 10 years. I have recovered many of the entries for Part Two from Part One (i.e. “Ruby of Burma” or “Kauri Gum of New Zealand” or “Amber in Maryland” would be cross indexed into both Parts). All of the update entries for Parts Three and Four were permanently lost.



Publications fully indexed in “Gill's Historical Index To Gems And Jewelry Online” placed in the order of the date they were first published include:

1) **Minerals Yearbook** (chapters on gemstones)

**Mineral Resources** 1882-1921

**Mineral Industry** (*M.I.*) 1905-1932

**Minerals Yearbook** 1932-2007 (these annuals are always 2 or 3 years behind in publishing. 1994 onward I use the online PDF issues that start with page #1, whereas the bound library edition may use another page number)

2) **The Gemmologist** - Aug. 1931-Dec. 1962 (Journal discontinued)

3) **Gems & Gemology** - Jan. 1934-Winter 1980 Vol. XVI, No. 12 (\*Part 1 is fully updated through Winter 1984) (download Jan. 1934-Winter 1980 for FREE at <http://www.archive.org/details/texts>) 1981 - 2008 AUTHOR INDEX & 1981 - 2008 SUBJECT INDEX), all at:

[http://www.gia.edu/gemsandgemology/357/gg\\_indexes.cfm](http://www.gia.edu/gemsandgemology/357/gg_indexes.cfm) .

4) **Journal of Gemmology** - Jan. 1947-Jan. 1978 (\*Part 1 is fully updated through Oct. 1984)

5) **Lapidary Journal** - April 1947-April 1978 (\*Part 1 is fully updated through March 1985)

6) **Australian Gemmologist** - July 1958-Nov. 1977 (\*Part 1 is fully updated through Nov. 1984)

7) **Gem Library Bibliography** 1652 - 2008 (this author does not claim to have all the latest sources here but I have done my best and more can be added)

Most all subjects are supplemented in the **Gem Library Bibliography** sections by a list of hundreds of related books and publications from my library of gemology in the English language. The list begins in 1652 with the very first book in English on gems. The three largest general lists of books are under the subject titles in:

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## Part 3 - Section 2 - Bibliographic Lists/Gems in Literature

## Part 3 - Section 20 - Theoretical Gemology

## Part 4 - Section 1 - Antique Gems & Jewelry (History and Mystery).

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### Searching this document is fun and instant

With over 350 direct links to download or read the entire text on the internet (right click on any internet link, while on the internet, and click “Open Hyperlink” or “Open Weblink in Browser”).

Have you ever heard of a gem quality star opal or a cross shaped pearl or did you know that a rough diamond crystal was found in the Seine River near Paris? You will learn many unusual facts about all aspects of gemology by perusing this index.

----☹-----if you can't find the answer-----☺-----you can easily search for the  
answer----

“Not the not-knowing is shameful, but the not-knowing where you could look it up!” From A Review of “Gill’s Index”, By Edward J. Gubelin, Ph. D., C.G., F.G.A.

“Gill's Historical Index To Gems And Jewelry Online” is given freely, by the author, to all, in the true spirit of the internet, to share information.

### Notes on interesting searches

(Just CLICK - CTRL+F and type in anything: **persons name, famous gem, locality, title keyword, year, etc.**)

Try these:

If you are in despair because this is not an author’s index, you can do a simple “Ctrl + F” search & you will easily find hundreds of references to George Frederick Kunz, Liddicoat, Crowningshield, Nassau, Sydney H. Ball, Hurlbut, Edwin William Streeter, Anderson, Webster, Pough, Gubelin, A. E. Alexander(who ran the first gem lab in NYC and a past friend), Sinkankas, etc., finding not only all their articles and books but also articles about each one of their lives in the science of

gemology. Please also see **Part Three - Section 14 – Notable People/Historical Gemology** for hundreds of references to all those people in the history of gemology that we need to remember.

#1 Search “diamond window”.

#2 Search any famous diamond or colored gem or Smithsonian.

#3 Search “archive.org” or “Farlang” or “Gutenberg” to see how many of these books are on line.

#4 Search your country or state but if you are from out there, search “SPACE” or even “ANTARCTICA” if that applies.

#5 Search any year. I randomly searched 1906 and here are just a few of the results I found:  
Diamonds used as bearings in electric motors - Testing gems with hydrofluoric acid -  
Diamonds Found in Arkansas - Diamond (Calif., Ky., WI) - Diamond (Canada, Brazil;  
N.S.W. Australia; Tasmania - Gems of Ceylon - Gems of Maine - Gems of South  
Carolina - Emerald of Austria and Colombia - Jadeite of Burma - Chrysoprase of  
California - Ruby (Burma, Siam, Transvaal - Ruby of North Carolina - Kashmere  
(Kashmir) Sapphire Mines - Hiddenite and Kunzite from Maine; Hiddenite from  
California - Turquoise of Persia - Turquoise of Arizona and New Mexico.

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### **Some of the many reviews of the original “Gill’s Index”:**

Winter GEMS & GEMOLOGY, 1979-1980 p. 250 top right reads “GIA’s latest Reference book”, **“information is easy to find with Gill’s Index”**

“Joseph O. Gill, F.G.A., C.G., G.G., has created a reference-book that gives multi-dimensional information of the entire literature about gems and jewelry in the English language. Even just reading the titles to the articles often gives answers to such questions and transmits much knowledge, so that one can see “Gill's Index” being used for revision purposes by scientists and students. No wonder the publisher of “Gill's Index”, the G.I.A., is proud of this work, and has therefore promised to renew it every few years.

The idea and concept of “Gill's Index” should be taken up by other scientific branches of knowledge. After all, the motto for the expert stands: Not the not-knowing is shameful, but the not-knowing where you could look it up!”

**GEMS & GEMOLOGY**, FALL 1980, p. 368, 2 pp.

From A Review of “Gill’s Index”, By Edward J. Gubelin, Ph. D., C.G., F.G.A., Lucerne, Switzerland (Dr. Gubelin did seven different very positive reviews of “Gill’s Index” in four languages).

**Wendell E. Wilson, Ph. D.**, editor of **The Mineralogical Record**, March – April 1981, in his own lengthy review of “Gill’s Index” agrees with Gubelin by saying “Why has such a comprehensive index not been produced for other important areas of study”, and Wilson continues “Gill’s Index represents an enormous labor of love requiring years of work, significant funds, and a degree of motivation beyond most authors”.

**GEMS & GEMOLOGY**, 1979 p. 190 “GIA Publishes An Essential Gem Book, “GILL’S INDEX”, this will be updated every few years” and **Richard Liddicoat** also proclaimed in the G & G “The GIA is proud to announce the publication of “Gill’s Index” as part of a continued effort to keep the jewelry and gem industry informed”.

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“Gill’s Index” was only the 2<sup>nd</sup> book in 46 years published by the GIA that was not written by a member of the GIA’s own staff.

Note from Joseph Gill: “I had the opportunity to talk to Dick Liddicoat at his home via phone three months before his passing and he was most enthusiastic about the idea of putting the “Gill’s Index” on the web as “Gill’s Historical Index To Gems And Jewelry Online”\_where interested people, including authors, could continually update it.”

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## **PREFACE**

(original from 1978 published edition)

It has been my mission to collect all works, in English, related to every phase of gemology. For the last eight years I have been in communication with over 200 used book dealers and have also met several gem book collectors with whom I have done some trading.

Journal collecting proved to be most rewarding because of the hundreds of odd issues needed and the many rare and unique subjects included in them. Through the courtesy of several gem institutes, my needs were made known through their publications. This was done as a kindness and I deeply appreciate all their efforts.

The following institutes, organizations and individuals were most responsible for kindly providing encouragement, and offering suggestions during the preparation of this text: Robert Crowningshield, Richard T. Liddicoat, Jr., Bert Krashes, Eunice Miles, and John Koivula of the Gemological Institute of America in Santa Monica and the Gem Trade Lab of the GIA in New York; Robert Webster and Harry Wheeler of the Gemmological Association of Great Britain; The Gemmological Association of Australia; Cornelius S. Hurlbut, Jr., Harvard University; Peter Dunn of the Smithsonian Institution; Eduard Gübelin; Eric Bruton; The Lapidary Journal; N.W. Ayer & Son; Jack S. Taylor, Australia; the U.S. Geological Survey and the U.S. Bureau of Mines. My special thanks go to Capt. John Sinkankas and his wife, Marge, of San Diego, who has offered me many publications through their mail order operation of "Peri Lithon."

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## Today in 2009

It is my love of the field of Gemology and belief in the importance of learning and education that has made me persevere in keeping this project alive. It is exciting to be able to share my years of enjoyable research in this new format of e-text; distributed freely on the internet for the use and benefit of everyone.

When “Gill’s Index” was first published in 1978 by the G.I.A. with great enthusiasm from both Liddicoat & Crowningshield, it had many wonderful reviews by the top gemologists of that time and the size of bibliographies at the end of many new books & articles published shortly thereafter increased by over five times. These publications failed to mention that they had taken most, if not all their references from the newly published “Gill’s Index.” Therefore this author asks authors and researchers using this index, to PLEASE give full credit to this “Gill's Historical Index To Gems And Jewelry Online” in their publications to ensure the continued existence of the index on the web.

This is a challenge to all young, budding gemologists; both professional and amateur. It is hoped that interested gemologists will step forward and offer to keep this resource tool up to date. This author has indexed the first 350 years of publications and is now retired and wishes to move on. Anyone wanting to help update any part of this index is asked by the author to please contact me offering your ideas or help. You may choose to make updates for any of the separate journals, or a special gem or locality. If you see any glaring errors in the texts or missing books, don’t panic, just send me an email and then you can be helping in this project.

With over 350 direct links to download or read the entire text on the internet (right click on any internet link, while on the internet, and click “Open Hyperlink” or “Open Weblink in Browser”).

The big news is that many documents and books on gems and jewelry are on line for FREE download in 6 different kinds of file formats at <http://www.archive.org/details/texts>. I have added as many links for texts that are available at this wonderful library site, but remember, more publications are coming online daily. I wanted to put a direct link to each book, but that does not work here.

You must first go to <http://www.archive.org/details/texts> and do a search for the author or key word in the title and you will get one to up to ten hits for each publication. Often the first few on the search give links to reprints offering only a sample number of chapters so you will go and buy a printed copy. I found that if you continue opening links to your desired book, by far most of the time, you will find one that will download a complete copy and also many can be read while on the internet. Just do a search for “archive.org” in “Gill's Historical Index To Gems And Jewelry Online” and see what kind of library you can make for free on your own laptop.

My special thanks go to my friend Richard W. Hughes, for the inclusion of his “Ruby & Sapphire References” sent me in 2001 for this update edition.

There is a fine reference library now on line with over 25,000 pages of classical publications on gems and jewels at [www.Farlang.com](http://www.Farlang.com).

Please don't forget to take one minute and click on [www.worldglobetrotters.com](http://www.worldglobetrotters.com) to see what is going on today in my life, while traveling the World on our 25 year adventure.

I look forward to receiving further questions or comments regarding “Gill's Historical Index To Gems And Jewelry Online” etc., from any interested person via email: [gilljoseph1949@yahoo.com](mailto:gilljoseph1949@yahoo.com).

**Sincerely,**

**Joseph O. Gill, BSC, GG, FGA**

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## **INTRODUCTION**

There has been such a vast amount written on the subject of gemology, but much of it has been lost as a reference because of its inaccessibility. Articles are scattered in hundreds of journals with no single index to their contents.

This index is put together in order to provide easy access to all articles in the major journals on gemology. The text provides a full list of every article in these journals, by subject, in chronological order. With use of the Table of Subjects as a guide, the index will be more functional as a source for information. (See *Gems & Gemology*, Fall 1980, p. 366, 4pp.)

In compiling this index I found some of the article titles to be obscure and sometimes even unrelated to the actual subject of the article. Since it was my objective to create an efficient and useful subject index, not a bibliography, it seemed necessary to use license and to paraphrase these titles in order to clarify the subject content. Many of the articles covered more than one major subject and, in these cases, titles had to be constructed for each subject. Many articles lacked titles completely in which case I provided a brief annotation.

The authors' names have been eliminated from many articles because I felt them to be unnecessary in a subject index. If you are in despair because this is not an author's index, you can do a simple "Ctrl + F" search & you will easily find hundreds of references to George Frederick Kunz, Liddicoat, Crowningshield, Nassau, Sydney H. Ball, Hurlbut, Edwin William Streeter, Anderson, Webster, Pough, Gubelin, A. E. Alexander (who ran the first gem lab in NYC and a past friend), Sinkankas, etc., finding, not only all their articles and books, but also articles about each one of their lives in the science of gemology. Please also see **Part Three - Section 14 – Notable People/Historical Gemology** for hundreds of references to all those people in the history of gemology, which we need to remember.

The journals have been listed separately under each subject for the benefit of readers who possess only one or two sets of journals. The researcher will also find this beneficial in keeping his references well organized. The journals appear in the order in which they were first published and are listed that way on the contents page.

In this index one can see how journals have attempted not to overlap each other in their special report studies, and they avoid repetition wherever possible. One is also able to see where the weaknesses occur in research. This text will be helpful in

eliminating the reiteration of past reports and highlighting the potential for future original studies.

Each journal has its own style and shows its strength in different areas of gemological study. These strengths, along with brief histories of the journals, are discussed following this introduction.

Most all subjects are supplemented in the **Gem Library Bibliography** sections by a list of hundreds of related books and publications from my library of gemology in the English language. The list begins in 1652 with the very first book in English on gems. The three largest general lists of books are under the subject titles in:

**Part 3 - Section 2 - Bibliographic Lists/Gems in Literature.**

**Part 3 - Section 20 - Theoretical Gemology.**

**Part 4 - Section 1 - Antique Gems & Jewelry (History and Mystery).**

Every facet of the study of gemology, whether it be locations, scientific theory, or gems in jewelry, is represented under the appropriate subject title in this index. Many of the articles and books include excellent bibliographies on their particular topic. In those articles where an exceptionally thorough bibliography has been given, it is noted.

In **Part Three - Section 14 - Notable People/Historical Gemology** are additional bibliographies which have been published occasionally in the journals. Some contains fine bibliographic listings of works available in all languages from as far back as 1300AD.

(NOTE: For more information on "Gill's Index," see *Gems & Gemology*, Fall, 1980, pp. 366-369, and *The Australian Gemmologist*, May 1981, pp. 117-119.)

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With over 350 direct links to download or read the entire text on the internet (right click on any internet link, while on the internet, and click "Open Hyperlink" or "Open Weblink in Browser").

Within the sections entitled Gem Library Bibliography are many publications which list specialized bibliographies such as the following: "The Book of the Pearl," 1908, by George Frederick Kunz (download for FREE at <http://www.archive.org/details/texts> or read on line at [www.Farlang.com](http://www.Farlang.com)); "The Turquoise," 1915, by Joseph E. Pogue; "A History of the Crown Jewels of Europe,"

1960, by Lord Twining; "A History of Jewellery 1100-1870," 1970, by Joan Evans; "Gemstones of North America," Volume 2, 1976, by John Sinkankas. Other publications list general bibliographies such as the following: "Diamonds and Precious Stones," 1867, by Harry Emanuel (download for FREE at <http://www.archive.org/details/texts> or read on line at [www.Farlang.com](http://www.Farlang.com)); "Mani-Mala," Volume 2, 1881, by Sourindro M. Tagore; "A Book of Precious Stones," 1909, by Julius Wodiska (download for FREE at <http://www.archive.org/details/texts> or read on line at [www.Farlang.com](http://www.Farlang.com)); "Gemstones," 1972, by G. F. Herbert Smith, revised by F. C. Phillips; 1982 (download for FREE at <http://www.archive.org/details/texts> or read on line at [www.Farlang.com](http://www.Farlang.com)), Chinese Jade: An Annotated Bibliography (700 publications), by Gerald M. Born, Chicago, 423pp.. These references represent only a small portion of those books containing fine bibliographic listings of works available in all languages.

Also see **Part 3 - Section 2 - Bibliographic Lists/Gems in Literature** that has many fine bibliographic listings of works available in all languages.

Below are two exceptional bibliographies that this author wants you to know of:

1993, "**Gemology: An Annotated Bibliography**", Sinkankas, John, Metuchen, NJ, The Scarecrow Press, Inc., 2 Vols., 1179 pp. This is a wonderful 40 year study of ALL books on gems & gemology, listing all the editions of all books and major papers in all languages and is very interesting to the gemologist but more suited for the book collector or library cataloger. You can see a book review of this monumental work by Richard T. Liddicoat, GEMS & GEMOLOGY Winter 1993, p. 297. The 14,000 volume, John & Marge Sinkankas Library was purchased by the GIA in January 1988 and now makes up the core of the entire GIA's world class library.

2007 "**Mineralogy & Crystallography: An Annotated Biobibliography of Books Published 1469 through 1919**", by Curtis P. Schuh (search the author and download this lifelong work in two volumes for FREE at <http://www.archive.org/details/texts> or read on line at <http://mineralogicalrecord.com/library.asp> a very fine web site.



Merely by reading the listings within “Gill's Historical Index To Gems And Jewelry Online” students will learn many rare facts about gemology. Several examples of these unusual facts are: prehistoric diamond mines found in South Africa, moss-like inclusions and needle inclusions in diamonds, gem opal finds in the State of Washington in 1890 ... typical inclusions in Kashmir sapphires ... and hundreds of others. This kind of exposure gives a student a better appreciation of the near limitless avenues of study available to him or her through the use of this index.

(NB. For your convenience, all names of the notable gems have been printed in *italics* throughout this text.)

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Publications fully indexed in “Gill’s Historical Index To Gems And Jewelry Online” placed in the order of the date they were first published include:

**1) MINERALS YEARBOOK (Chapters on Gem Stones)**

**MINERAL RESOURCES 1882-1921** (read most of these reports on line at [www.Farlang.com](http://www.Farlang.com))

**MINERAL INDUSTRY 1905-1932**

**MINERALS YEARBOOK 1932-2007** (these annuals are always 2 or 3 years behind in publishing. 1994 onward I use the online PDF issues that start with page #1, whereas the bound library edition may use another page number).

**Minerals Yearbook (1932-1993) are online at:**

<http://minerals.usgs.gov/minerals/pubs/myb.html>

**Minerals Yearbook (1994 onward) Chapters on Gemstones are online at:**

<http://minerals.usgs.gov/minerals/pubs/commodity/gemstones/index.html#mc>  
[s](#)

"Mineral Resources," published by the U.S. Geological Survey, was a long annual report containing chapters on each major mineral, including a review of U.S. and world activities and production records.

The very eminent Dr. George Frederick Kunz, United States gem expert, was invited to contribute the "Precious Stones" chapter. George Frederick Kunz continued to write this report from 1882 until 1905. Kunz was a pioneer in gem

study, and his reports were well-researched, comprehensive, on-the-spot original reports of many early gem discoveries in the United States and the world. (read most of these reports and all of George Frederick Kunz's books on line at [www.Farlang.com](http://www.Farlang.com)). Many of George Frederick Kunz's books can be downloaded for FREE at <http://www.archive.org/details/texts>.

From 1906 through 1914, Douglas B. Sterrett of the U.S. Geological Survey was called upon to write the "Precious Stones" chapter. Sterrett was well recognized for his careful, scientific research of many new gem localities.

From 1915 through 1918, Waldemar T. Schaller served as contributor for the chapter on "Gems and Precious Stones." Schaller is best remembered for his particular interest in the pegmatite gems of southern California.

From 1919 through 1921, Dr. B. H. Stoddard continued the annual chapter on "Gems and Precious Stones" but his reports were not as comprehensive as earlier contributors.

After 1921 "Mineral Resources" ceased publication. A government report on gems was not available again until 1932 when the U.S. Bureau of Mines began publishing annually the "Minerals Yearbook."

In order to fill in this gap from 1922 through 1931 I have incorporated into this section of the index the "Precious Stones" chapters from "Mineral Industry," an annual report of private industrial nature edited by G. A. Roush. However, since these reports of such fine quality were available from 1905 to 1932, they have been included. For most of these years (1906-1931), Dr. George Frederick Kunz wrote the "Precious Stones" chapters for "Mineral Industry." The articles from "Mineral Industry" are indicated by the initials *M.I.* at the end of each entry.

Government annual reports on the gem industry were resumed when "Minerals Yearbook" was published by the U.S. Bureau of Mines. The most notable contributor to this annual report has been Sydney H. Ball, a very well-known geologist and gem expert for the U.S. Bureau of Mines. Mr. Ball wrote the "Gem Stones" chapters from 1934 through 1948 (search his name in "Gill's Historical Index To Gems And Jewelry Online" for more).

The "Minerals Yearbook" chapters on gems are much briefer than the earlier reports reviewed above, but there is no doubt that these chapters, with respect to production records and new locations, are a great contribution to this index.

I have indexed all these annual reports because of the tremendous amount of data they contain on first-hand accounts (going back to the mid-1800's) of gem finds all over the world, with strong emphasis on the U.S.A. Many libraries contain full runs of these publications for your reference. Most of these reports are now available on the web and the links are given below.

## **United States Geological Survey, USGS**

### **Mineral Resources 1882-1921**

**From:** Dr. John H. DeYoung, Jr., Chief Scientist, Minerals Information Team, U.S. Geological Survey, 988 National Center Reston, VA 20192, voice: 703-648-6140, fax: 703-648-4995, e-mail: [jdeyoung@usgs.gov](mailto:jdeyoung@usgs.gov)

“The Mineral Resources of the United States was published until 1934 (data year 1931), moving from the USGS in the Department of the Interior to the U.S. Bureau of Mines (USBM) in the Department of Commerce in 1925 (data year 1924). When the USBM moved back to Interior in 1934, the series was continued as Minerals Yearbook, 1932-33 (data years).”

The Home page of the USGS minerals information Website is at:  
<http://minerals.usgs.gov/minerals/>.

Bureau of Mines, Minerals Yearbook (Annual) are at:  
<http://minerals.usgs.gov/minerals/pubs/myb.html>

Bureau of Mines, Minerals Yearbook (1932-1993) are at:  
<http://minerals.usgs.gov/minerals/pubs/usbmmyb.html> You just click on **Metals, Minerals, (and Fuels)** to get to the annual chapters on Gem Stones.

Bureau of Mines, Minerals Yearbook (1994 onward) Chapters on Gemstones are at:  
<http://minerals.usgs.gov/minerals/pubs/commodity/gemstones/index.html#mcs>

Also included on the USGS web site is the “**Mineral Commodity Summaries**” (Annual) 1996 – onward at:  
<http://minerals.usgs.gov/minerals/pubs/index.html#myb>. Published on an annual

basis, this report is the earliest Government publication to furnish estimates covering nonfuel mineral industry data. Data sheets contain information on the domestic industry structure, Government programs, tariffs, and 5-year salient statistics for over 90 individual minerals and materials.

## **2) THE GEMMOLOGIST - Monthly, August 1931 through December 1962, London.**

The Gemmologist originated as a monthly journal printed in London by the National Association of Goldsmiths Press, Ltd., with Arthur Tremayne as editor and was the first periodical to be entirely devoted to gemology.

The Gemmologist was made the first official journal of the Gemmological Association, a branch of the National Association of Goldsmiths. The Gemmological Association later became, in 1938, The Gemmological Association of Great Britain. The Gemmologist remained the official journal of that Association from October 1931 through October 1934. From August 1937 through December 1946, economic reasons forced The Gemmologist to be bound into the Goldsmiths' Journal. Thereafter, it resumed its original independent format.

With the death of Editor Arthur Tremayne in 1954, his assistant, Eric M. Bruton, assumed the position of editor through December 1962.

Starting in January 1963, the Gemmologist was bound into the Horological Journal as a small supplement. At this point the Journal, as a source for gemological information, was superseded by other gemological journals.

The Gemmologist, unlike any of the other periodicals in this text, includes many articles covering the entire subject of gemology, from gem sources to advance scientific gem testing.

### **Note:**

THE GEMMOLOGIST - Monthly, August, 1931, through December, 1962, London. The first gemology journal and a major source of information is available in full at:

<http://www.microform.co.uk/academic/itemdetails.php?ref=%20R00476>

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Title:, Order # R00476, **The Gemmologist**. Description:, 11 reels. Notes:. Covers 1931-1962. PNV : Mineralogy (UF Gems). Price Band:. £627/US\$1254 ... (as of May 2008 - The set converted from microfilm to PDF £627.00 plus £220.00 plus V.A.T. at 17.5%, total cost: £995.23.) VERY Pricey, please let the author know if you find The Gemmologist for less or in a free torrent. [gilljoseph1949@yahoo.com](mailto:gilljoseph1949@yahoo.com)

OR at

<http://siris-libraries.si.edu/ipac20/ipac.jsp?uri=full=3100001~!435156!0>

The Gemmologist; official journal of the Gemmological Association.

Title: The Gemmologist; official journal of the Gemmological Association.

vols. 1-31 (no. 1-337); Aug. 1931-Dec. 1962. Publisher: London, N.A.G. Press Ltd. **Catalog Source No.:** (OCoLC)ocm0553215

(See also **Part Three - Section 24 - Gemology in the British Isles** for further reference to the history of The Journal of Gemology and the Gemmological Association of Great Britain.)

**3) GEMS & GEMOLOGY - Quarterly, January 1934 - Winter 1980 Vol. XVI, No. 12** (Part 1 is fully updated through Winter 1984)

**FREE Download of the first 46 years of GEMS & GEMOLOGY, January 1934 - Winter 1980:**

Forty-six years of Gems & Gemology for Free at online Archives 1934 – 1980 where each issue (192 separate PDF files) can be downloaded, one by one, are at: [http://www.gia.edu/gemsandgemology/31265/issues\\_19341980.cfm](http://www.gia.edu/gemsandgemology/31265/issues_19341980.cfm). This author has downloaded each of the 192 separate PDF files and has combined them into a single, fully searchable, PDF document, Gems & Gemology 1934 -1980, 474mbs., just CLICK - CTRL+F and type in anything: persons name, famous gem, locality, title keyword, year, etc.. ( download this unique PDF document for FREE at <http://www.archive.org/details/texts>, you will want to keep this on your store and home computer for easy access to 5685 pages of gemology, 46 years of gemology at your fingertips)



SEE more below)

Gems & Gemology was started as a bi-monthly periodical published by the Gemological Institute of America (GIA) for American Gem Society (A.G.S.) members from January 1934 through November-December 1934. From January-February 1935 through Winter 1937, the A.G.S. published the journal for its members. Gems & Gemology became a quarterly journal as of Spring 1936, and has remained as such through the present. The GIA again in the spring of 1938 became the publisher of the journal for the A.G.S. and its members. Starting with the Summer 1943, issue the GIA published the journal as the official organ of the G.I.A and this is still true today.

As of the Summer 1947 issue the journal showed a large improvement because a new five-man editorial board was formed to oversee each article. The board positions were filled by the most eminent people in the subject of gemology and were changed periodically up to the present date.

Starting with the Winter 1958 issue there were two reports presented in each issue, one from the Gem Trade Lab of the GIA in Los Angeles, and the other from the Gem Trade Lab in New York City. These reports are separated in this text by an asterisk at the beginning of each of these Lab notes. Note change in scope and size with the April 1981 issue.

Gems & Gemology has always directed most of its emphasis toward scientific gemology, with somewhat less interest in locations of gems.

Gemological Institute of America, GIA home web site is at: <http://www.gia.edu/>

Gems & Gemology Free online Archives 1934 – 1980 where each issue (192 separate PDF files) can be downloaded, one by one, are at:

[http://www.gia.edu/gemsandgemology/31265/issues\\_19341980.cfm](http://www.gia.edu/gemsandgemology/31265/issues_19341980.cfm).

Spring 1981 onward - Gems & Gemology Online: PDF versions of both full issues and individual articles and Lab Notes/GNI sections can be purchased through MetaPress at <http://gia.metapress.com/home/main.mpx> (click on “Journal Issues” along the left-hand navigation bar). MetaPress now hosts PDF versions of all Gems & Gemology issues going back to Spring 1981. Note that Editorials, Letters, Book Reviews, and Gemological Abstracts (and all items marked with a solid green box

on the MetaPress tables of contents) are available free of charge. Online subscriptions are available for purchase.

There are 8 separate indexes to the Gems & Gemology, of which 3 are by Subject and 3 are by Author for the years 1934 – 1980 & 2 additional indexes made in PDF format called: 1981 - 2008 AUTHOR INDEX & 1981 - 2008 SUBJECT INDEX), all at: [http://www.gia.edu/gemsandgemology/357/gg\\_indexes.cfm](http://www.gia.edu/gemsandgemology/357/gg_indexes.cfm) .

These eight different indexes were prepared for one single journal by a library “scientist”. With all the abbreviations and a limit of 2 to 4 words per entry, seemingly to save space, these indexes lack necessary annotations that would make a practicing gemologist’s job fast and easy. The author was invited by the GIA to use this index for updating “Gill’s Index” into “Gill's Historical Index To Gems And Jewelry Online” but he found the many indexes confusing and not orientated toward the needs of the practical gemologist. The original aim of “Gill’s Index” was and still is to make references, simple, easy and fast to find, in one single source with proper annotations.

(Note: “Gill's Historical Index To Gems And Jewelry Online” includes all Subject listing and all important Author listing for the G & G for 1934 – 1980, and integrated with this are all of the other gemological journals in English along with thousands of books and papers, all in one convenient single fully searchable file, 8 megabytes in size).

(See also **Part Three - Section 25 - Gemology in North America** and **Part Three - Section 26 - Gem & Trade Associations – General** for further reference to the history of Gems & Gemology, the AG.S. and the GIA).

#### **4) THE JOURNAL OF GEMMOLOGY - Quarterly, January 1947 through January 1978, London. (Part 1 is fully updated through Oct. 1984).**

From October 1931 through December 1946, the Gemmological Association of Great Britain had used several outside publications as their official journal; but with their incorporation and independence from the National Association of Goldsmiths, they began publication of their own journal in 1947 and entitled it The Journal of Gemmology.

The Journal has always been known for its high standard of professionalism. Its strongest emphasis is in the area of scientific gemology. Since January 1949, The Journal of Gemmology has included in each issue a section called Gemmological Abstracts in which important articles from other periodicals are briefly reviewed. This is followed by the reviews of recently published books related to gemology and jewelry.

**The Gemmological Association and Gem Testing Laboratory of Great Britain**

<http://www.gem-a.info/>

Back issues are at: <http://www.gem-a.co.uk/publications/journal.htm#Back>

Journal of Gemmology: Mary Burland, Director of Publications, Responsible for Gems & Jewellery and The Journal of Gemmology. **Email:** [mary.burland@gem-a.com](mailto:mary.burland@gem-a.com)

**JOURNAL OF GEMMOLOGY**

Gem-A 27 Greville Street

London EC1N 8TN , England

Tel: +44 (0) 20 7404 3334 Fax: +44 (0) 20 7404 8843

E-mail: [information@gem-a.info](mailto:information@gem-a.info)      [www.gem-a.info](http://www.gem-a.info)

(See also **Part Three - Section 24 - Gemology in the British Isles** for further reference to the history of The Journal of Gemmology and the Gemmological Association of Great Britain.)

**5) LAPIDARY JOURNAL** (now called - **Jewelry Artist**) - **Monthly, April 1947 through April 1978.** (Part 1 is fully updated through March 1985).

The Lapidary Journal was founded in April 1947 by Lelande Quick in Hollywood, California. It was issued bi-monthly until 1962 when it became a monthly publication and has remained so until the present.

It now boasts the largest distribution of any hobby periodical in the world, and its authors are among the most noted in the fields of lapidary and gemology. The Journal is now located in San Diego, CA, and for many years were edited by Pansy D. Kraus.

As for its subject content, it is closest in nature to The Gemmologist with its tremendous variety of articles ranging from gem locations to highly scientific gemology, with a strong emphasis on lapidary.

A very small percentage of the articles have been omitted from this index because they vary too much from the subject of gemology. Lapidary Journal is the only publication for the amateur represented here; it is included because of the vast amount of unique information it contains and the respect it commands from the most professional of gemologists.

### **LAPIDARY JOURNAL (now called - Jewelry Artist)**

<http://www.lapidaryjournal.com/>

<http://www.lapidaryjournal.com/store/sbsbeads.cfm>

Some back issues at: <http://www.lapidaryjournal.com/store/backissues.cfm>

<http://www.woodenski.com/2neat/journals/lapidary.htm>

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### **6) THE AUSTRALIAN GEMMOLOGIST - Quarterly, July 1958 through November 1977, Australia.** (Part 1 is fully updated through Nov. 1984).

The Australian Gemmologist was published as a monthly journal from July 1958 through June 1967. As a monthly, it included articles on general scientific gemology, locations of Australian gems, and announcements of the branch meetings of the Gemmological Association of Australia (G.A.A.).

From August 1967 through the present, the journal has been published as a quarterly. When the journal went quarterly, the subject matter broadened and improved greatly, including original studies on scientific gemology, with an emphasis on opals and other Australian gems and their locations.

The Australian Gemmologist began as and always has been the official organ of the G.A.A.

The Gemmological Association of Australia

<http://www.australiangemmologist.com.au/>

Search the Australian Gemmologist On-line:

<http://www.australiangemmologist.com.au/abstracts.html>

Past Issues from: <http://www.australiangemmologist.com.au/backissu.html>

(See also **Part three – Section 23 - Gemology in Australia** and **Part three - Section 26 - Gem & Trade Associations – General** for further reference to The Australian Gemmologist and the G.A.A.)

**7) Gem Library Bibliography 1652 - 2008** (this author does not claim to have all sources here but I have done my best and more can be added)

With over 350 direct links to download or read the entire text on the internet (right click on any internet link, while on the internet, and click “Open Hyperlink” or “Open Weblink in Browser”).

Most all subjects are supplemented in the **Gem Library Bibliography** sections by a list of hundreds of related books and publications from my library of gemology in the English language. The list begins in 1652 with the very first book in English on gems. The three largest general lists of books are under the subject titles in:

**Part 3 - Section 2 - Bibliographic Lists/Gems in Literature**

**Part 3 – Section 20 - Theoretical Gemology**

**Part 4 – Section 1 - Antique Gems & Jewelry (History and Mystery)**

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## **TABLE OF SUBJECTS**

NOTE: If a journal has a great deal of information on a particular subject, it has been subtitled, such as:

**Diamond**

**Gemology**

**Inclusions (Gems & Gemology)**



# **Part One: Gems & Gem Materials**

## **Group Gem Descriptions (Natural and Synthetic)**

**Actinolite**

**Alexandrite (see Chrysoberyl)**

**Aluminium**

**Amber**

**Amblygonite**

**Ammolite**

**Anatase**

**Andalusite**

**Anglesite**

**Anhydrite**

**Anthophyllite**

**Apatite**

**Apophyllite**

**Aragonite**

**Augelite**

**Axinite**

**Azurite**

**Barite**

**Benitoite**

**Beryl (Other than emerald exclusively)**

**Beryllonite**

**Boleite**

**Bone & Horn**

**Boracite**

**Borazon**

**Brazilianite**

**Calcentine (see Ammolite)**

**Calcite**

**Californite (see Idocrase)**

**Cancrinite**

**Carborundum (see Silicon Carbide)**

**Cassiterite**

**Catlinite (Pipestone)**

**Celestite**

**Ceruleite**  
**Cerussite**  
**Charoite**  
**Chlorastrolite**  
**Chondrodite**  
**Chrysoberyl**  
**Chrysocolla**  
**Cinnabar**  
**Clinohumite**  
**Colemanite**  
**Collophane**  
**Coral**  
**Cordierite (see Iolite)**  
**Corundum (Other than ruby or sapphire exclusively)**  
**Crocoite**  
**Cubic Zirconia (see Diamond - Gemology)**  
**Cuprite**  
**Danburite**  
**Datolite**  
**Diamond - Sections:**  
    **Africa**  
    **United States**  
    **Other than Africa and the United States**  
**Gemology**  
    **Inclusions ("Gems & Gemology")**  
    **Synthetic**  
**Trade**  
    **Cutting, Make, Styles, Tools, etc. ("Gems & Gemology")**  
    **Industrial**  
    **Notable (Diamonds)**  
**Diaspore**  
**Dichroite (see Iolite)**  
**Diopside**  
**Diopase**  
**Dolomite**  
**Dumortierite**  
**Ekanite**  
**Emerald**  
**Enstatite**

**Eosphorite**  
**Epidote**  
**Euclase**  
**Eudialyte**  
**Fabulite (see Strontium Titanate)**  
**Feldspar**  
**Fibrolite (see Sillimanite)**  
**Fluorite**  
**Friedelite**  
**Fuchsite**  
**Gahnite**  
**Garnet (G.G.G., etc.)**  
**Glass, Silica-Natural**  
**Glass (Paste)**  
**Gold**  
**Grandidierite**  
**Gutta-percha (Plastic)**  
**Hambergite**  
**Hauynite**  
**Helvite**  
**Hematite**  
**Hemimorphite**  
**Herderite**  
**Hodgkinsonite**  
**Horn (see also Bone and Ivory)**  
**Howlite**  
**Hurlbutite**  
**Idocrase (Vesuvianite or Californite)**  
**Iolite**  
**Ivory**  
**Jade**  
**Jeremejevite**  
**Jet**  
**Kauri Gum**  
**Korite (see Ammolite)**  
**Kornerupine**  
**Kyanite**  
**Lapis Lazuli**  
**Lavernite (see Periclase)**

**Lazulite**  
**Leucite**  
**Limestone (see Marble)**  
**Linobate (Lithium Metaniobate)**  
**Magnesite**  
**Malachite**  
**Manganotantalite**  
**Marble**  
**Maw-sit-sit**  
**Meerschaum (Sepiolite)**  
**Meliphanite**  
**Microlite**  
**Milarite**  
**Moldavite**  
**Monazite**  
**Natrolite**  
**Nepheline**  
**Obsidian**  
**Odontolite**  
**Olivine (see Peridot)**  
**Opal**  
**Painite**  
**Pearl**  
**Pectolite**  
**Periclase (Lavernite)**  
**Peridot (Olivine)**  
**Petalite**  
**Petrified Wood (See also Quartz)**  
**Phenakite**  
**Phosgenite**  
**Phosphophyllite**  
**Pipestone (see Catlinite)**  
**Plastics**  
**Platinum**  
**Pollucite**  
**Prehnite**  
**Prosopite**  
**Proustite**  
**Pumpellyite (see Chlorastrolite)**

**Pyrite**  
**Quartz (See also Petrified Wood)**  
**Realgar**  
**Rhodizite**  
**Rhodochrosite**  
**Rhodonite**  
**Ruby**  
**Rutile**  
**Sapphire**  
**Sarcolite**  
**Saussurite**  
**Scapolite**  
**Scheelite**  
**Scorodite**  
**Sepiolite (see Meerschaum)**  
**Septarian Nodules**  
**Serpentine**  
**Shell**  
**Siderite**  
**Silicon Carbide (Carborundum)**  
**Sillimanite (Fibrolite)**  
**Silver**  
**Sinhalite**  
**Smithsonite (Calamine)**  
**Sodalite**  
**Sogdianite**  
**Sphalerite**  
**Sphene**  
**Spinel**  
**Spodumene**  
**Staurolite**  
**Stibiotantalite**  
**Stichtite**  
**Strontium Titanate (Fabulite)**  
**Sugilite**  
**Taaffeite**  
**Tantalite**  
**Tanzanite (see Zoisite)**  
**Tektites**

**Thomsonite (Zeolites)**  
**Titanic (see Rutile)**  
**Titanite (see Sphene)**  
**Topaz**  
**Tortoise–Shell**  
**Tourmaline**  
**Tremolite**  
**Tugtupite**  
**Turquoise**  
**Ulexite**  
**Unakite**  
**Vanadinite**  
**Variscite**  
**Verdite**  
**Vesuvianite (see Idocrase)**  
**Vivianite**  
**Wagnerite**  
**Willemite**  
**Wonderstone**  
**Wulfenite**  
**Xenotime**  
**Xonotlite**  
**Y.A.G. (see Garnet)**  
**Yttralx**  
**Zeolite (see Thomsonite)**  
**Zincite**  
**Zircon**  
**Zoisite**

## **Part Two: Gem Locations**

**(This author must apologize for not updating a few country names, especially the old U.S.S.R. now split up into many. I am looking for any volunteers to help with such things).**

**General Production (World)**

**Alphabetical Index of 115 Countries (United States - Listed by State)**



## **Part Three: Gemology**

### **Sections**

#### **1 - Assembled Stones**

**Adularescence (see Section 15 - Phenomena (Chatoyancy, Asterism, Adularescence, Iridescence))**

**Asterism (see Section 15 - Phenomena (Chatoyancy, Asterism, Adularescence, Iridescence))**

#### **2 - Bibliographic Lists/Gems in Literature**

**Birefringence (see Section 17 - Refractive Index (Birefringence, Polarized Light, Interference Figures))**

**Care of Gems (see Section 8 - Gem Collections/Care of Gems)**

**Chatoyancy (see Section 15 - Phenomena (Chatoyancy, Asterism, Adularescence, Iridescence))**

#### **3 - Chemical Testing in Gemology**

**Cleavage (see Section 8 - Hardness (Cleavage, Fracture, Toughness))**

#### **4 - Color (Pleochroism, Color Filters, Color Treatment)**

#### **5 - Crystals (and the Genesis of Gems)**

#### **6 - Fluorescence (Luminescence, Ultraviolet Light, X-ray)**

**Fracture (see Section 8 - Hardness (Cleavage, Fracture, Toughness))**

#### **7 - Fraud in Gemology/Forensic Gemology**

#### **8 - Gem Collections/Care of Gems**

#### **9 - Hardness (Cleavage, Fracture, Toughness)**

**Historical Gemology (see Section 14 - Notable People/Historical Gemology)**

**10 – Inclusions (see also, Section 16 – Photography and Section 11 - Microscopy & Magnifiers)**

**Interference Figures (see Section 17 - Refractive Index (Birefringence, Polarized Light, Interference Figures))**

**Iridescence (see Section 15 - Phenomena (Chatoyancy, Asterism, Adularescence, Iridescence))**

**Luminescence (see Section 6 - Fluorescence (Luminescence, Ultraviolet Light, X-ray))**

**11 - Microscopy & Magnifiers**

**12 - Mining Recovery Methods**

**13 - Nomenclature**

**14 - Notable People/Historical Gemology**

**15 - Phenomena (Chatoyancy, Asterism, Adularescence, Iridescence)**

**16 - Photography**

**Pleochroism (see Section 4 - Color (Pleochroism, Color Filters, Color Treatment))**

**Polarized Light (see Section 17 - Refractive Index (Birefringence, Polarized Light, Interference Figures))**

**17 - Refractive Index (Birefringence, Polarized Light, Interference Figures)**

**18 - Specific Gravity**

**19 - Spectroscopy**

**Synthetics (see Part 1 - GROUP GEM DESCRIPTIONS - SYNTHETIC and Part 3 - Section 20 - Theoretical Gemology)**

**20 - Theoretical Gemology**

**Toughness (see Section 8 - Hardness (Cleavage, Fracture, Toughness))**

**Ultraviolet Light (see Section 6 - Fluorescence (Luminescence, Ultraviolet Light, X-ray))**

**21 - Weights & Measures (Estimating Weights)**

**X-ray (see Section 6 - Fluorescence (Luminescence, Ultraviolet Light, X-ray))**

**22 - Gemological Meetings & Expositions**

**23 - Gemology in Australia**

**24 - Gemology in the British Isles**

**25 - Gemology in North America**

**26 - Gem & Trade Associations – General**

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## **Part Four: Jewelry**

### **Sections**

**1 - Antique Gems & Jewelry (History and Mystery)**

**Appraisals (see Section 2 - Fashion in Gems (Appraisals, Investment and Valuation))**

**2 - Fashion in Gems (Appraisals, Investment and Valuation)**

**3 - Gems & Jewelry - Notable Collections**

**Investment (see Section 2 - Fashion in Gems (Appraisals, Investment and Valuation))**

**Jewelry (see Section 1 - Antique Gems & Jewelry (History and Mystery))**

**4 - Lapidary and Jewelry Making**

**Museums (see Section 3 - Gems & Jewelry - Notable Collections)**

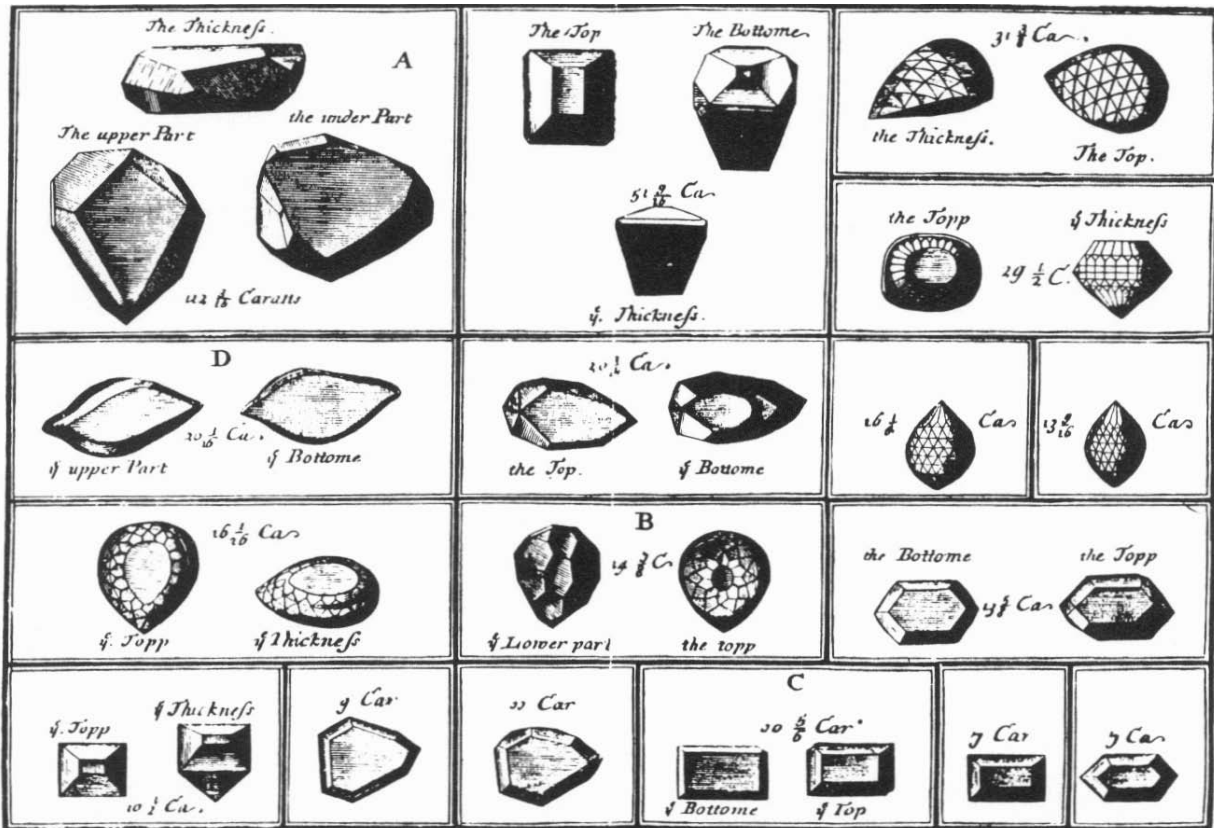
**5 - Notable Antique Gems & Jewelry**

**6 - Notes on Gem Companies**

**Valuation (see Section 2 - Fashion in Gems (Appraisals, Investment and Valuation))**

# PART ONE

## GEMS & GEM MATERIALS



A. I. a Diamond cleave of a faire vid.  
 B. C. Are two of a pale rose Colour  
 D. Is one of an Extraordinary faire  
 water



All 4 rest are white and Cleare  
 and were Cutt in India  
 The three below marked 1 2 3  
 are soule



Jean-Baptiste Tavernier, Baron d'Aubonne, in 1676  
at the age of 74



Fig. 5 & 6 & 7, **The Six Voyages of Jean Baptiste Tavernier, Baron of Aubonne, Through Turkey into Persia and the East Indies For a Space of Forty Years**, 1677, first English edition by John Phillips, pub. Dr. Daniel Cox, London. (download for FREE at <http://www.archive.org/details/texts> or read on line at [www.Farlang.com](http://www.Farlang.com))

THE SIX  
VOYAGES  
OF  
JOHN BAPTISTA TAVERNIER,  
BARON of AUBONNE;  
THROUGH  
Turky, INTO Persia  
AND THE  
EAST-INDIES,  
For the space of Forty Years.

GIVING  
An Account of the present STATE of those  
Countries, *Viz.* Of the RELIGION, GOVERNMENT,  
CUSTOMS, and COMMERCE of every Country;  
and the Figures, Weight, and Value of the MONEY  
currant all over *ASIA*.

TO WHICH IS ADDED,  
A new Description of the SERAGLIO.

Made *English* by J. P.

ADDED LIKEWISE,  
A VOYAGE  
INTO THE  
INDIES, &c.  
By an *English* Traveller, never before Printed:  
Publish'd by Dr DANIEL COX.

LONDON:

Printed by WILLIAM GODDID, for ROBERT LITTLEBURY  
at the King's Arms in *Little Britain*, and MOSES PITT  
at the Angel in *St Paul's Church-yard*. 1677.

This is the titleplate of the first edition in English of the classic work by Tavernier.

Most all subjects are supplemented in the **Gem Library Bibliography** sections by a list of hundreds of related books and publications from my library of gemology in the English language. The list begins in 1652 with the very first book in English on gems. The three largest general lists of books are under the subject titles in:

**Part 3 - Section 2 - Bibliographic Lists/Gems in Literature**

**Part 3 - Section 20 - Theoretical Gemology**

**Part 4 - Section 1 - Antique Gems & Jewelry (History and Mystery).**

See also **Part One** for further reference to gemology related to each gem and gem material)



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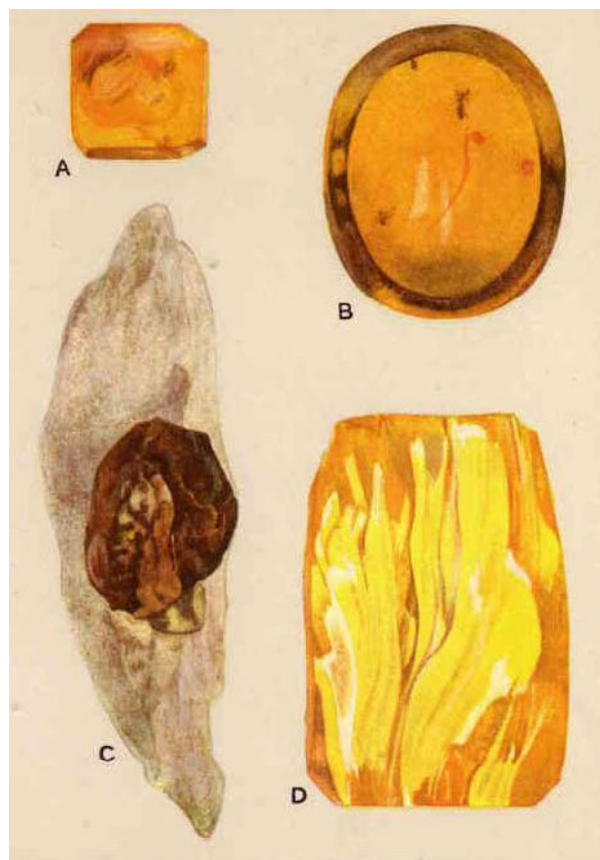


Fig. 8, *G & G Color Plates*, Winter 1946 - Fall 1951

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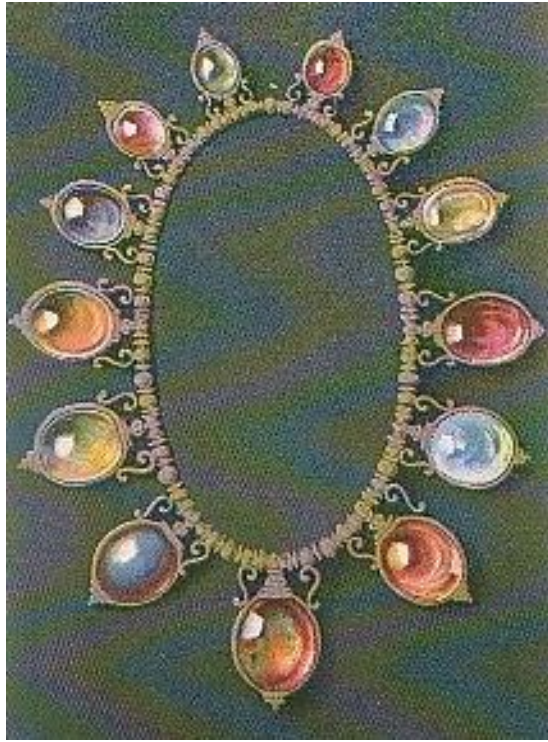


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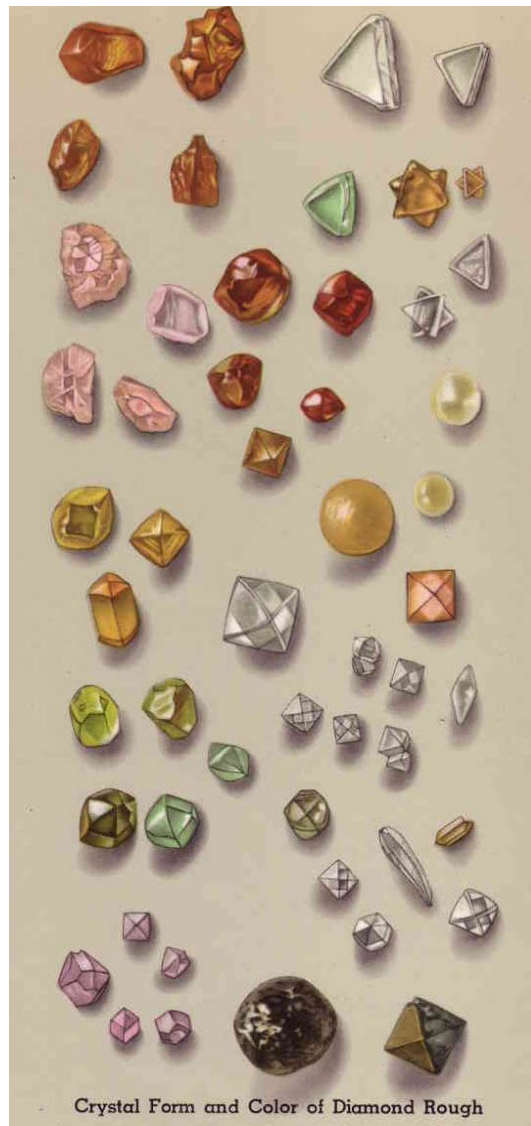


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Fig. 11, **Splendor of Diamonds**

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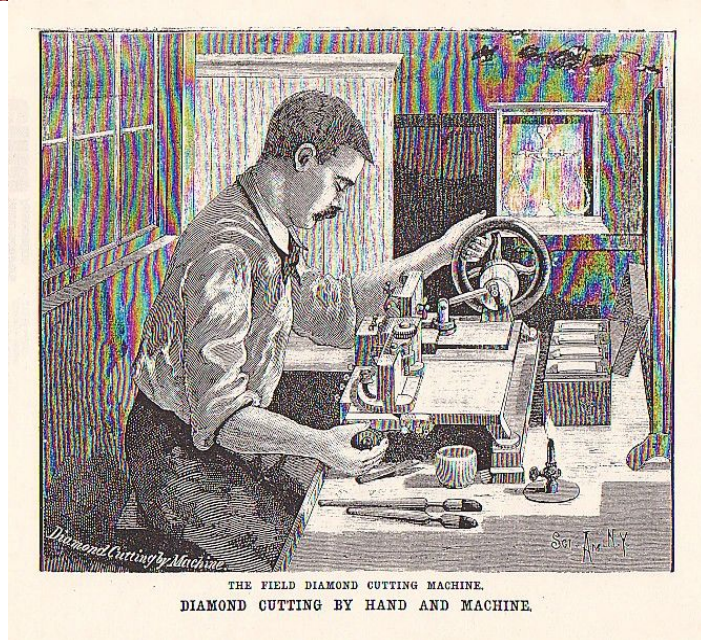
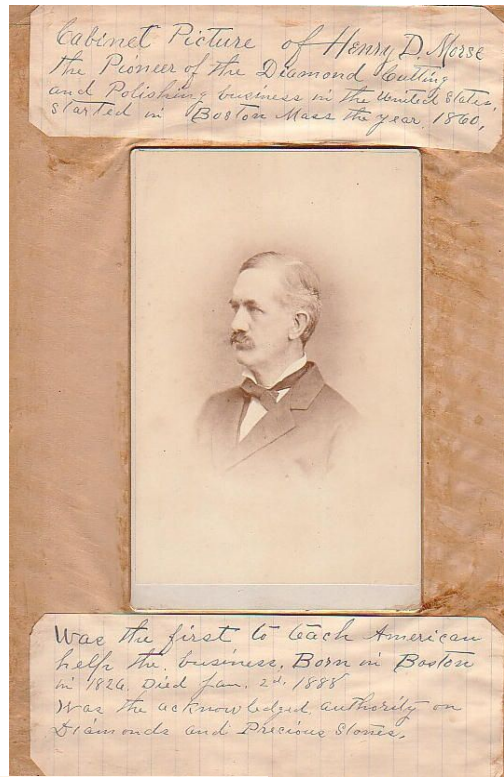
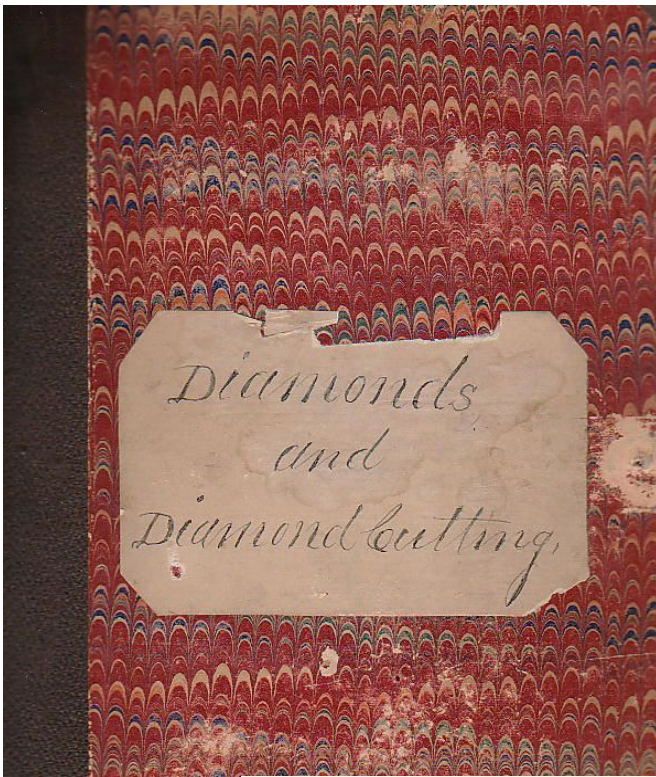
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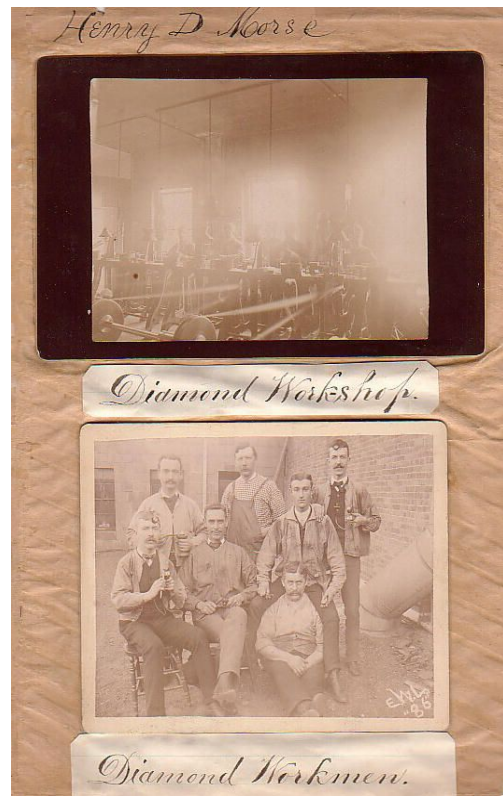
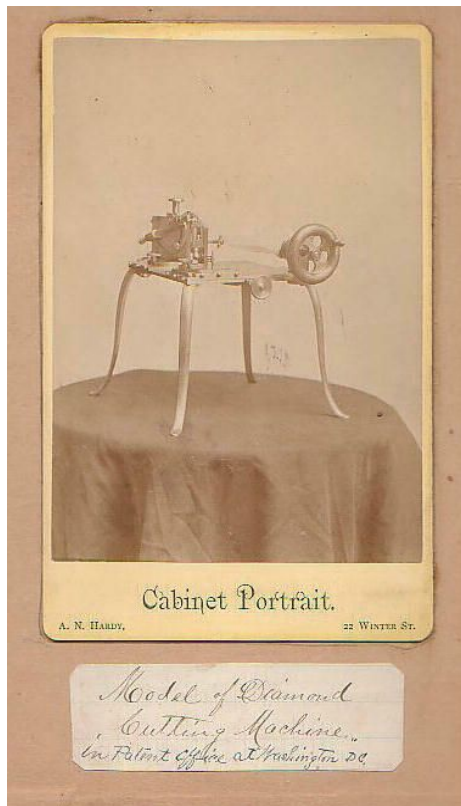
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**DIAMOND-TRADE (for production report see appropriate year)**









**Fig. 11b THE PERSONAL SCRAPBOOK OF CHARLES M. FIELD**  
(This Scrapbook was privately sold by this author, Joseph Gill, to the GIA in May 2001)

Christie's Sale of **“The Gill Collection of Historical Gem Books,”** Oct. 21, 1987 – Sept. 19, 1988 (download for FREE at <http://www.archive.org/details/texts>)

Charles M. Field was the inventor of the modern diamond cutting machine used worldwide. He was the first man to actually cut the American-cut diamond which was later called (the modern ideal cut). Several original pictures of the Henry D. Morse factory, where Field was foreman, are included in this scrapbook. The factory, located in Boston, Massachusetts and founded in 1860 is where the first native born Americans were taught diamond cutting skills. Includes: the original cutting plans by C. M. Field of the Tiffany diamond, named after Tiffany & Co.; Henry Morse & Co. did a great deal of cutting for the firm also. The original first picture of the modern diamond cutting machine; of which a copy is stated to be in the United States Patent Office. Further on in this scrapbook is another picture of the stage in the Huntington lecture Hall of the Lowell Institute, Boston, where George Frederick Kunz first announced and demonstrated this unique machine. An article from Scientific American, July 18, 1891, tells of and pictures Mr. Field and his new American originated cutting machine. The scrapbook also contains

numerous original photographs, business cards, booklets and newspaper articles related to the accomplishments of Mr. Field and Mr. H. Morse and covers the period between 1860 and the 1930's. A very large size original picture of Mr. Henry D. Morse (1826-1888) "The Father of the American Diamond cutting Industry" and a separate file containing several rare and unusual documents related to the scrapbook are also featured.

"This scrapbook is unique and truly one of the most important documents relating to the jewelry industry worldwide."

**Reference:** "Modern Jeweler" January 1985. "American Diamond Cutting – The Untold Story" by David Federman, with the assistance of Joseph Gill and his scrapbook.

**(download this unique scrapbook along with other related materials for FREE at <http://www.archive.org/details/texts> )**

*(Search listings on "Henry D. Morse & or Charles M. Field" in the following sections below)*

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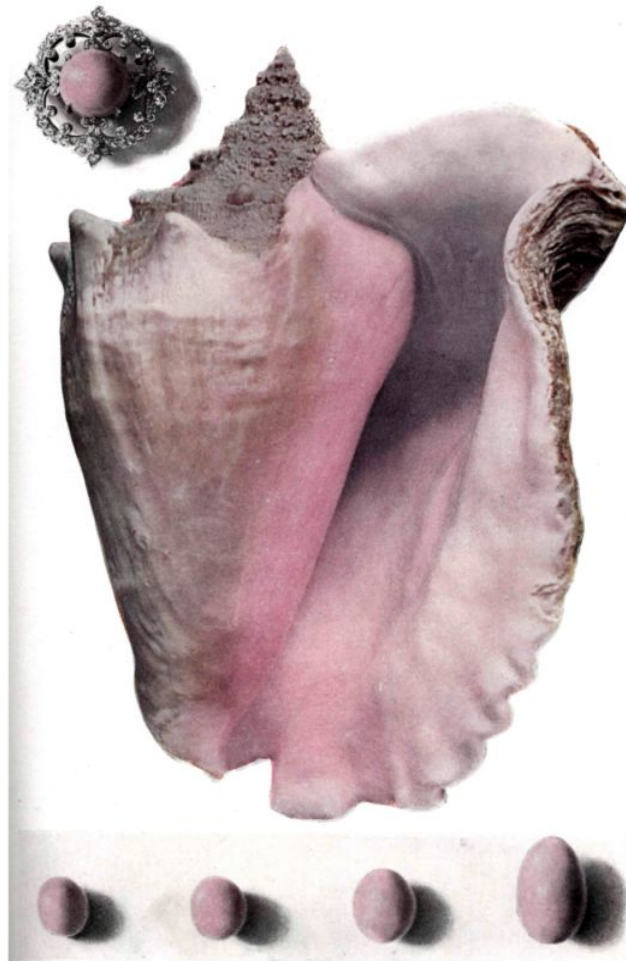


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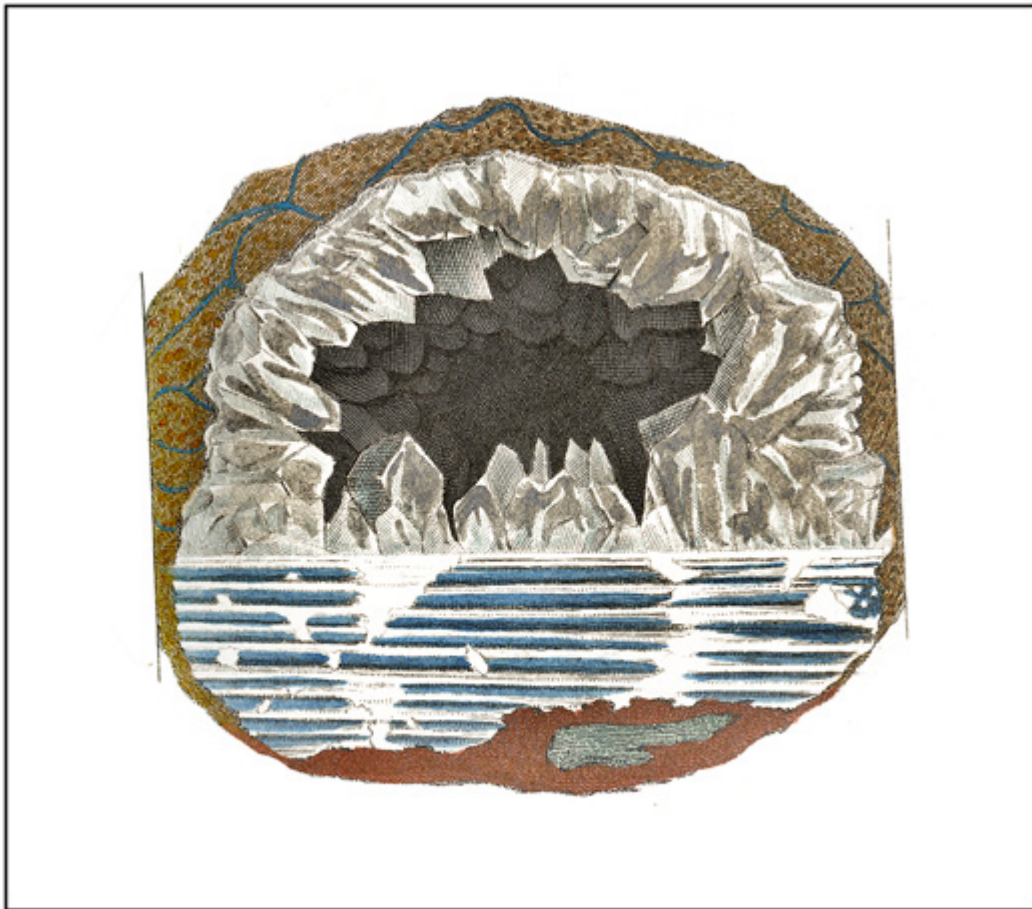


Fig. 17, Eugène Patrin (1742-1815) **Histoire Naturelle**, published in 1801, painted by the Parisian natural history artist and engraver Jacques-Eustache Deseve.

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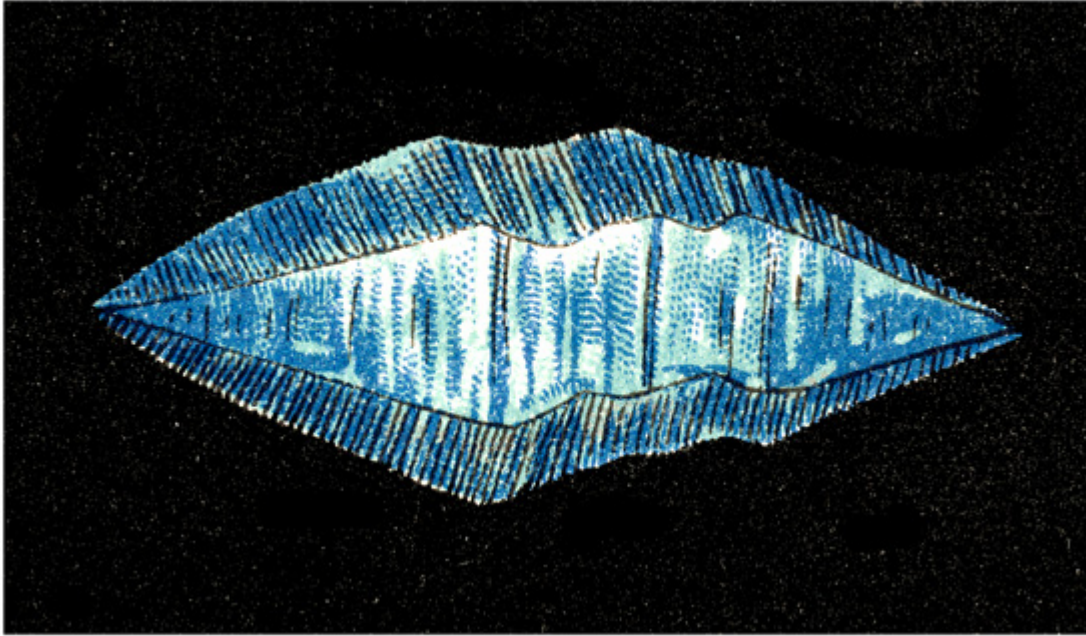


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Fig. 19, John Sinkankas (1915-2002) **Gemstones of North America** (1959, 1976, and 1997)

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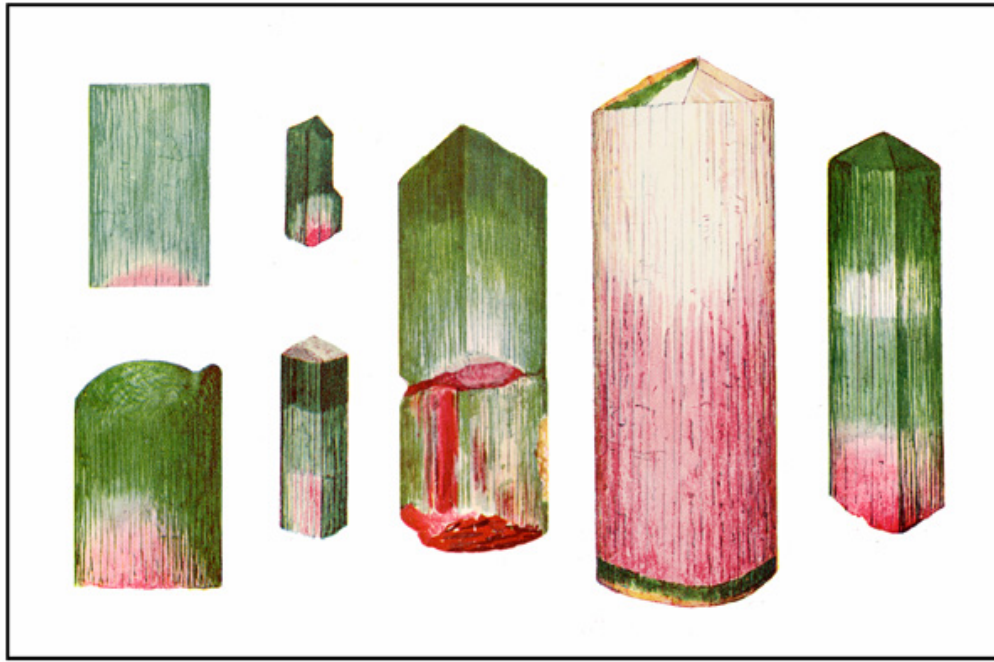


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## PART TWO

# GEM LOCATIONS



Fig. 21, A view of the diamond district of Brazil, circa 1755.

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Most all subjects are supplemented in the **Gem Library Bibliography** sections by a list of hundreds of related books and publications from my library of gemology in the English language. The list begins in 1652 with the very first book in English on gems. The three largest general lists of books are under the subject titles in:

**Part 3 - Section 2 - Bibliographic Lists/Gems in Literature**

**Part 3 - Section 20 - Theoretical Gemology**

**Part 4 - Section 1 - Antique Gems & Jewelry (History and Mystery).**



See also **Part One** for further reference to gemology related to each gem and gem material).

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**General Production (World)**

**Alphabetical Index of 115 Countries (United States Listed by State)**

**Gems from Space**

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# **PART THREE** **GEMMOLOGY**

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**Part 3 - Section 2 - Bibliographic Lists/Gems in Literature**

**Part 3 - Section 20 - Theoretical Gemology**

**Part 4 - Section 1 - Antique Gems & Jewelry (History and Mystery).**

See also **Part One** for further reference to gemology related to each gem and gem material)

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### **1 - Assembled Stones**

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## **PART THREE GEMOLOGY**

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**6 - Fluorescence (Luminescence, Ultraviolet Light, X-ray)**

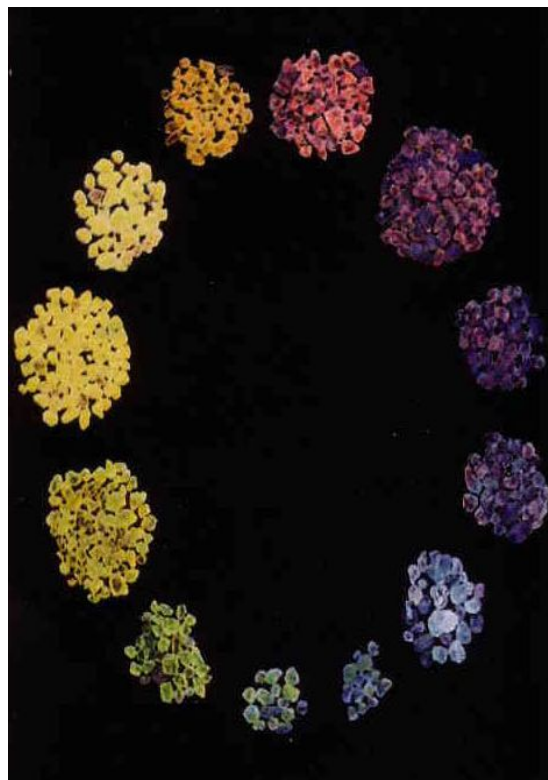


Fig. 22, Photo by G. Switzer, GIA. Fluorescent Diamonds, *G & G*, Spring 1947, Groups of rough diamonds arranged as to their color under ultraviolet light. PLATE

II

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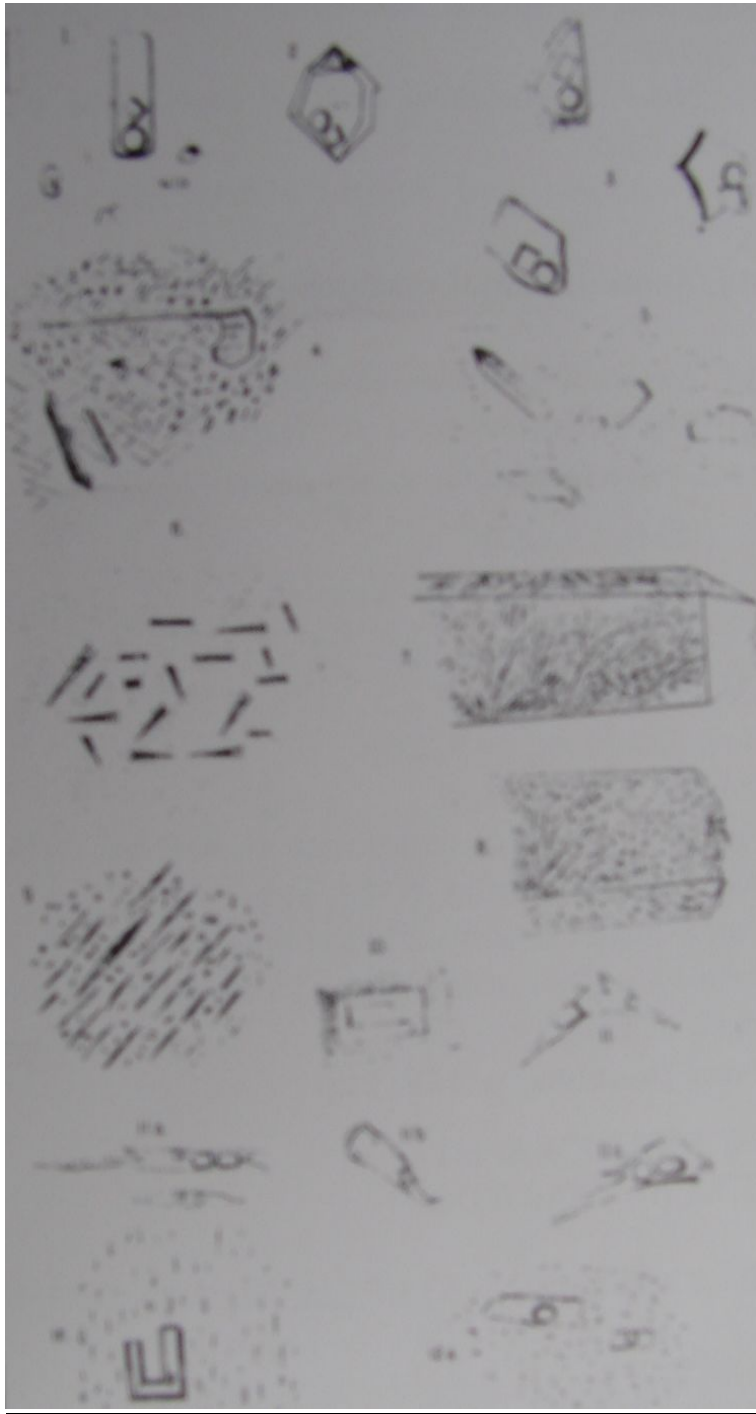


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**Part 3 - Section 2 - Bibliographic Lists/Gems in Literature**

**Part 3 - Section 20 - Theoretical Gemology**

**Part 4 - Section 1 - Antique Gems & Jewelry (History and Mystery).**

See also **Part One** for further reference to gemology related to each gem and gem material).

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## **Sections**

### **1 - Antique Gems & Jewelry (History and Mystery)**

**Appraisals (see Section 2 - Fashion in Gems (Appraisals, Investment and Valuation))**

### **2 - Fashion in Gems (Appraisals, Investment and Valuation)**

### **3 - Gems & Jewelry - Notable Collections**

**Investment (see Section 2 - Fashion in Gems (Valuation and Investment))**

**Jewelry (see Section 1 - Antique Gems & Jewelry (History and Mystery))**

### **4 - Lapidary and Jewelry Making**

**Museums (see Section 3 - Gems & Jewelry - Notable Collections)**

### **5 - Notable Antique Gems & Jewelry**

### **6 - Notes on Gem Companies**

**Valuation (see Section 2 - Fashion in Gems (Appraisals, Investment and Valuation))**

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## **Part Four: Jewelry**

### **1 - Antique Gems & Jewelry (History and Mystery)**



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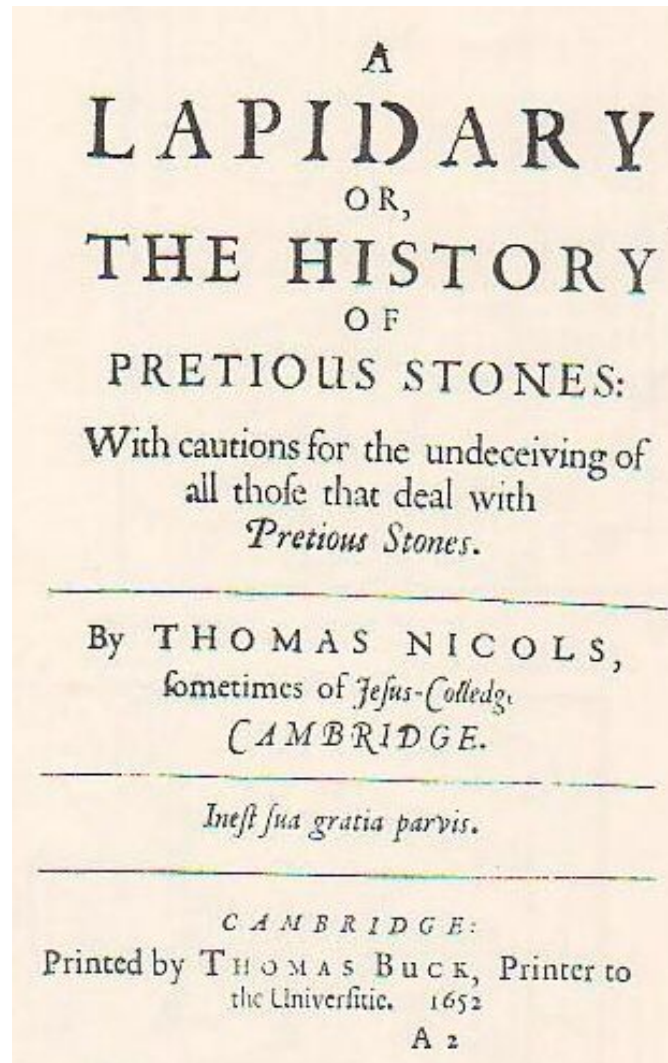


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## **Part Four: Jewelry**

### **2 - Fashion in Gems (Appraisals, Investment and Valuation)**

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