

THE

HISTORY OF GEOLOGY

DIVISION

Volume 26, Number 2

SEPTEMBER 2002

HISTORY OF GEOLOGY DIVISION DENVER 2002

Annual Meeting of the Geological Society of America
October 27 - 30

Please note that the GSA meeting this year (and in future years) starts on **SUNDAY**, not Monday.

Pre-Registration Deadline: September 20

Housing Deadline: September 27

For more information, see: *GSA Today*, June 2002, or go to: <http://www.geosociety.org>

FIELD TRIP

Thursday-Saturday, October 24-26.

Key Rocks and Seminal Thinkers: Classic Rocky Mountain Localities that Influenced Tectonic Thought.

Cosponsored by GSA History of Geology Division. Field Trip Leaders: A.M. Celâl Sengör and Tim Lawton.

Begins in Salt Lake City, Utah, and ends in Denver. Cost: \$220.

The Intermountain West has provided inspiration to numerous geologists who contributed fundamental concepts in the late 19th and early 20th centuries, including Stephen Long, John Charles Fremont, John Strong Newberry, G.K. Gilbert, J.W. Powell, Clarence Edward Dutton, Clarence King, and F.V. Hayden. This field trip will be a traverse from Salt Lake City to Denver, during which we will visit classic localities that engendered classic thinking and talk about the scenery that inspired the concepts of tectonic geomorphology. Participants should arrive in Salt Lake City on Wednesday, October 23, the day before the trip leaves, so we can get an early start on Thursday morning.

TECHNICAL SESSIONS

Sunday, October 27

1:00 pm-3:45 pm

Colorado Convention Center: C108/110/112

T46. Contributions of American Geologists to Theoretical Tectonics on the Basis of Research Done West of the 100th W. Meridian in the Latter Half of the 19th Century. A. M. Celâl Sengör and Michele L. Aldrich, Presiding

1:00 PM ALEXANDER VON HUMBOLDT AS A PIONEER OF WESTERN NORTH AMERICAN
TECTONICS: FRIEDRICH, Anke M., Potsdam Univ, anke@geo.uni-potsdam.de

TECHNICAL SESSIONS

Sunday, October 27

T46 (continued)

- 1:15 PM JOSIAH DWIGHT WHITNEY AND THE MOUNTAINS OF CALIFORNIA: CHAMPLIN, Peggy, champc@aol.com
- 1:30 PM FERDINAND VANDEVEER HAYDEN AND THE "HAYDEN" SURVEYS (1867-1879): WHAT DID THEY CONTRIBUTE TO TECTONIC THEORY?: LEVITON, Alan E., California Academy of Sciences, aleviton@calacademy.org and ALDRICH, Michele L., Cornell Univ, maldrich@smith.edu
- 1:45 PM A LABYRINTH OF INTRICATE CHANGES: CLARENCE KING'S IDEAS ON TECTONICS, 1860-1900: ALDRICH, Michele L., Cornell Univ, maldrich@smith.edu and LEVITON, Alan E., California Academy of Sciences, aleviton@calacademy.org
- 2:00 PM THE WHEELER SURVEY AND THEORETICAL TECTONICS: THE BASIN AND RANGE: GUTH, Peter L., U.S. Naval Academy, pguth@usna.edu
- 2:15 PM CLARENCE DUTTON: ISOSTASY AND GEOMORPHOLOGY REVISITED: ORME, Antony R., Univ of California, Los Angeles, orme@geog.ucla.edu
- 2:30 PM G. K. GILBERT, LAKE BONNEVILLE, AND SCIENCE: OVIATT, Charles G., Geology, Kansas State Univ, joviatt@ksu.edu
- 2:45 PM THE INFLUENCE OF AMERICAN GEOLOGISTS WORKING WEST OF 100TH MERIDIAN DURING THE LATTER HALF OF THE 19TH CENTURY ON EDUARD SUESS: SENGÖR, A. M. Celâl Sengör, sengor@itu.edu.tr
- 3:00 PM SUB-SUMMIT SURFACES IN THE ROCKY MOUNTAINS: REEVALUATING PAST IDEAS WITH LANDSCAPE DIMENSIONAL ANALYSIS: MCMILLAN, Margaret E., HELLER, Paul L., and HUMPHREY, Neil F., Univ of Wyoming, mcmillan@uwyo.edu

Monday, October 28

8:00 am-12:00 pm

Colorado Convention Center: A207

History of Geology General Session Robert N. Ginsburg and Roger D. K. Thomas, Presiding

- 8:00 AM FORM AND FORMLESS: SEVENTEENTH CENTURY DRAWINGS OF ROCKS IN EUROPE AND CHINA AND THE PATHS TOWARDS MODERN GEOSCIENCE AND SPIRITUAL ENLIGHTENMENT: ROSENBERG, Gary D., Indiana Univ/Purdue Univ, grosenbe@iupui.edu
- 8:15 AM NICOLAUS STENO, SPONTANEOUS GENERATION, AND THE GREAT FOSSIL DEBATE: CUTLER, Alan H., Smithsonian Institution, ahcutler@aol.com
- 8:30 AM EIGHTEENTH CENTURY SERPENTINE ANALYSES AND THEIR MEANING: NEWCOMB, Sally E., enewcomb@earthlink.net
- 8:45 AM THE IMAGE OF THE PLANET EARTH AS AN ACTIVE AGENT IN JAMES HUTTON'S THEORY OF THE EARTH WITH PROOFS AND ILLUSTRATIONS: NORWICK, Stephen A., Sonoma State Univ, norwick@sonoma.edu
- 9:00 AM J.D. FORBES AND NAPLES: DEAN, Dennis R., 834 Washington St, Evanston, IL 60202

- 9:15 AM HENRY DARCY AND THE PUBLIC FOUNTAINS OF THE CITY OF DIJON: BOBECK, Patricia, Geotechnical Translations, pbobek@texas.net
- 9:30 AM CD-ROM DIGITAL ARCHIVE- REPORT UPON THE COLORADO RIVER OF THE WEST EXPLORED IN 1857 AND 1858 BY LIEUTENANT JOSEPH C. IVES, GEOLOGICAL REPORT WITH MAPS BY JOHN S. NEWBERRY: MCKINNEY, Kevin C., U.S. Geol Survey, kcmckinney@usgs.gov
- 9:45 AM Break
- 10:00 AM TO SEE AND BE SEEN: TRANSATLANTIC RELATIONS IN ANTEBELLUM AMERICAN GEOLOGY: NEWELL, Julie R., Southern Polytechnic State Univ, jnewell@spsu.edu
- 10:15 AM A BANNER YEAR IN THE TRANSPORTATION OF OIL, 1865: PEES, Samuel T., Samuel T. Pees & Associates, spees@toolcity.net
- 10:30 AM HENRY S. WILLIAMS (1847-1918)-THOUGHTS ON EVOLUTION: BRICE, William R., Univ of Pittsburgh at Johnstown, wbrice@pitt.edu
- 10:45 AM GEOLOGY AND PALEONTOLOGY IN THE WRITINGS OF MARK TWAIN: A REFLECTION OF THE WOOF AND WARP OF SCIENCE AND AMERICAN CULTURE IN THE LATE 19TH AND EARLY 20TH CENTURIES: ROWLAND, Stephen M., Univ Nevada, srowland@unlv.edu
- 11:00 AM THE PRE-MODERN HISTORY OF THE POST-MODERN DINOSAUR: ALLMON, Warren D., Paleontological Rsch Institution, wda1@cornell.edu
- 11:15 AM WALTER BUCHER'S LAST FIELD TRIP AND CONVERSION TO THE IMPACT ORIGIN OF METEOR CRATER: A TRIBUTE TO AN OPEN MIND: ELSTON, Wolfgang E., Univ of New Mexico, weelston@earthlink.net

HISTORY OF GEOLOGY DIVISION LUNCHEON, BUSINESS MEETING, AWARDS CEREMONY
Monday, October 28 11:30am-1:30pm Convention Center – Room 111

Our congratulations to **Dennis Dean**, the Division awardee for 2002. The award will be presented at the luncheon. **Robert Dott** will be the citationist.

HISTORY OF GEOLOGY DIVISION ANNUAL RECEPTION for MEMBERS, STUDENTS & GUESTS
Tuesday, October 29 5:00pm-7:00pm Marriott Hotel – Room: Colorado J

Please plan to attend our second annual reception for all of our members, students, and guests and help celebrate the 200th anniversary of the 1802 publication of John Playfair's *Illustrations of the Huttonian Theory of the Earth*. There will be door prizes,* good food and great conversation. Please come; it should be a grand function!

* Speaking of door prizes, PLEASE bring a relevant something to add to our drawing. If you have an extra copy of something old or new, recent or old books, neat old reprints, etc., let Bill Brice know what you have and he will keep a list. But if you forget to tell him, bring the items anyway - all contributions are welcome!!!

THANKS FOR THE MANY FINANCIAL DONATIONS: A sincere thank you to everyone who responded to our call for financial assistance to cover the reception expenses. Many people came forward, and their kindness is greatly appreciated. Thanks ... **“The Management.”**

A REQUEST FOR ASSISTANCE FROM: *Dictionary of Nineteenth Century British Scientists*

Below is a list of geologists for whom we still need contributors. The entry on Nevil Story-Maskelyne will be 600-2500 words; the others will be < 600 words apiece. Anyone interested in writing one or more entries can contact me at: abvr@mindspring.com to volunteer, ask questions, or check availability of a particular entry. Regards, and thank you in advance for assisting us. - Bow Van Riper

Geologist Entries for *Dictionary of Nineteenth Century British Scientists*, unassigned as of August 20, 2002:

Allan, Thomas 1777-1833	Gurney, Henry Palin 1847-1904
Barlow, William 1845-1943	Hamilton, William John 1805-1867
Barrett, Lucas 1837-1862	Hawkins, Thomas 1810-1889
Bauerman, Hilary 1835-1909	Henwood, William 1805-1875
Cumming, Joseph George 1812-1868	Image, Thomas 1772-1856
Davies, David Christopher 1827-1885	Konig, Charles Dietrich 1774-1851
Drew, Frederick 1836-1891	Ludlam, Henry 1824-1880
Duncan, Peter Martin 1821-1891	Portlock, Joseph 1794-1864
Ganly, Patrick 1809-1899	Story-Maskelyne, Mervyn Herbert Nevil 1823-1911
Green, Alexander Henry 1832-1896	Weaver, Thomas 1773-1855
Griffith, Richard John 1784-1878	

INTERESTING PUBLICATIONS

Geological Society (London) Memoir 23: The Life of Frank Coles Phillips (1902-1982) and the Structural Geology of the Moine Petrofabric Controversy, by Richard J. Howarth and Bernard E. Leake. June 2002. Paperback, 104 p. ISBN 1-86239-102-5. "Frank Coles Phillips was a petrographer, mineralogist and structural petrologist working in the middle of the twentieth century. He was very influential, both in the UK and abroad and was responsible for encouraging the development of structural geology as a discipline in Australia and for the adoption of the stereogram as a fundamental interpretational tool in structural geology in the UK. He was a superb teacher, perhaps best known amongst mineralogists and geologists of today for his classic textbooks An Introduction of Crystallography and The Use of Stereographic Projection in Structural Geology." List price £45.00 / \$75.00; GSL member price £20.00 / \$33.00; AAPG member price £27.00 / \$45.00. No e-mail orders, please. For more information, log on to: <http://www.bookshop.geolsoc.org.uk>. **NOTE: Special Price for History of Geology Division members \$33.00 plus postage** (postage/handling is \$16.70 per order or 15% of the total order value, whichever is greater). To obtain the special HoG price, quote the special ref '**Ref HDG-US M23**' and forward orders to the usual address: Sales Department, Unit 7, Brassmill Enterprise Centre, Brassmill Lane, Bath, UK, BA1 3JN, or call +44 (0) 1225 445046, or fax +44 (0) 1225 442836.

Drake Well Foundation

Practical Treatise on Coal, Petroleum & other Distilled Oil by Abraham Gesner, 1861.

The Drake Well Foundation has reprinted this historically significant book by one of the pioneers of the oil industry. Gesner's book, long out of print, is more difficult to find in libraries than the 1865 Second Edition, but now it is available again, thanks to the Drake Well Foundation. The cost is \$35.00 plus \$5.00 (shipping and handling). To order, send check payable to The Drake Well Foundation, for \$40.00 to: Mr. Samuel T. Pees, 628 Arch Street, Suite A-104, Meadville, PA 16335. (No credit card orders, please.)

Oil-Industry History (New Journal). Vol. 1 (2000) \$35.00*; Vol. 2 (2001) \$35.00*, Volume 3 (2002) \$35.00* (*\$5.00 postage for orders outside the US). All available from: Drake Well Foundation, PO Box 233, Titusville, PA 16354. Make check/money order (no credit cards please) in US \$ payable to: Drake Well Foundation.

Mary Anning Book: *Curious bones: Mary Anning and the Birth of Paleontology* by Thomas W. Goodhue. Morgan Reynolds, Inc., 620 Elm Street Suite 223, Greensboro, NC 27406. ISBN:1-883846-93-5. Price \$20.95. A nice readable story of Mary Anning and her contribution to paleontology, especially her work with pleisosaurs and ichthyosaurs. Although this edition is aimed at younger readers, older readers will enjoy it as well.

Two New Books from The University of Arizona Press

Discovering the Geology of Baja California-Six hikes on the Southern Gulf Coast by Markes E. Johnson. Paper: \$22.95. Interesting descriptions of the hiking area, each one tied in with some aspect of the history of geological concepts, e.g. Steno and superposition.

Science in the American Southwest-A Topical History by George E. Webb. Cloth: \$48.00. Webb has interesting chapters on B. Silliman, Jr.'s mining ventures and the development of tree ring analysis and climate change interpretation by A. E. Douglass. Also the book has a nice chapter on the Darwinian controversy in Arizona following the Scopes Trial, a controversy that continues to the present day.

New Book: *Archeomineralogy* by G.R. Rapp, Springer-Verlag 2002, 326 p, 71 figs, 8 tabs, ISBN 3-540-42579-9. Hardcover US \$89.95. A systematic look at the utilization of rock and mineral materials from the prehistoric through the 17th century ACE. The coverage is nearly world-wide and gives more than 800 references. Among the numerous illustrations are maps showing the location of major rock, mineral, and ore deposits, as well as photos and drawings of minerals, artifacts, statues, and large structures. Major portions of this book are based on 34 years of experience the author has doing geoarchaeology, archaeomineralogy, and archaeometallurgy in more than a dozen countries in Europe, Asia, Africa, and North America.

Lamont and Plate Tectonics - History of Geology Millennium Symposium, Reno 2000. This special issue of *Northeastern Geology and Environmental Science* is available for \$13.00 (\$21.00 institution/company) from: Northeastern Science Foundation, 15 Third Street, P.O. Box 746, Troy, NY 12181-0746.

HESS NOTES - History of Earth Science Society

Journal Issues Available

The History of Earth Sciences Society has available for purchase a complete run of the journal *Earth Sciences History*, from Vol 1, 1982 - Vol 19, 2000 (two issues/volume*). All except v. 1-3 and v.8, no.1 are in original wraps as new. The price is \$260 for individuals and \$400 for institutions plus shipping**. Payment by credit card is now available. All proceeds will go to HESS (History of Earth Sciences Society). Contact Ed Rogers at: <www.geology-books.com>. *Single Issue Prices: Vol. 1-20 (\$15/25); Vol. 21-forward (\$20/35).

**Surface Rates:

Location	1-10 Issues	11-20 Issues	Full Run
USA	\$8.00	\$10.00	\$15.00
Canada	\$12.00	\$15.00	\$25.00
Other	\$25.00	\$40.00	\$80.00

To calculate your cost, add the cost of the journal and the appropriate postage/handling fee (see above). All costs are in U.S. dollars. Payment may be made by checks drawn on a U.S. bank or by VISA, Master Card, American Express, or Discover. Send name, address and payment to: Ed Rogers, HESS Treasurer, PO Box 455, Poncha Springs, CO 81242 USA, or fax this information to Ed at 719-539-4542. If paying by credit card, please send Ed the card type, number, expiration date, name as it appears on the card, and billing address.

Volume 20, nos. 1 and 2 (2001) have been distributed to subscribers. Volume 21, no. 1 (2002) is in press.

HESS Meeting in Denver

There will be a meeting of all HESS officers/members in attendance at the Denver GSA meeting on Tuesday immediately following the History of Geology Reception.

To Join HESS

The cost of an annual membership in the History of Earth Science Society, which includes the Earth Sciences History journal, is: Individual \$40.00 (USA), \$45.00 (outside USA); Institutional \$70.00 (USA), \$75.00 (outside USA). Payable by check, international money order (in US dollars), or by major credit card. Send name, address, research interest, and payment to Ed Rogers, HESS Treasurer, PO Box 455, Poncha Springs, CO 81242 USA, or fax this information to Ed at 719-539-4542. For credit card orders, include card type, card number, expiration date, name as it appears on the card, and billing address.

UPCOMING MEETINGS

History of Geophysics: Call for Papers

The History of Geology Group (HoGG) of The Geological Society, London, will hold a meeting on the History of Geophysics on 12-13th March 2003 at the Society's premises at Burlington House, Piccadilly, London.

Offers of papers (the conference language will be English) should be sent as soon as possible (no later than September 30, 2002), to the Convenor, Professor Richard J. Howarth, Department of Geological Sciences, University College London, Gower Street, London WC1E 6BT, England; e-mail <r.howarth@ucl.ac.uk>. Potential participants should note that HoGG only has limited funds for travel grants, etc.

Oil Industry History Symposium

March 26-29, 2003

Drake Well Foundation

The Oil Industry History Symposium will be held in Shreveport, LA, March 26-29, 2003. Headquarters will be at the Downtown Holiday Inn (318/222-7717), where a block of rooms is available through March 5, 2003, for \$72/night plus taxes. Ask for the Drake Well Foundation rate. The \$180.00 registration fee covers the meeting and all field trips, program and guidebook, and all meals. Dr. Mary Barrett, Centenary College of Louisiana, is the meeting organizer.

Historian Dr. Diana Olien will speak Friday night. She and her spouse, David Olien, are probably the most prolific oil history writers these days. Their co-authored books include: *Oil in Texas - The Gusher Age 1895-1945* (2002); *Oil and Ideology - The Cultural Creation of the American Petroleum Industry* (2000); *Easy Money - Oil Promoters and Investors in the Jazz Age* (1990); and *Life in the Oil Fields* (1986).

A downloadable registration form and more meeting information is available at the meeting website at:

<http://personal.centenary.edu/~mbarrett/Drakesite/index.htm>

NOTE: The Drake Well Foundation, in addition to holding symposia, publishes an annual journal *Oil-Industry History* and also does re-prints of early oil literature (see announcements above). For more information, contact The Drake Well Foundation, P. O. Box 233, Titusville, PA 16354.

28th INHIGEO Symposium

GEOLOGICAL TRAVELLERS

July 14-18, 2003

The 28th INHIGEO meeting will be held at Trinity College, Dublin, Ireland, with a general theme of Geological Travellers. A mid-conference field trip to Mount Jerome Cemetery in Dublin will visit the grave sites of eminent Irish geologists such as John Joly, Sir Richard Griffith, and Charles Oldham. A visit also will be made to Killiney Beach where Robert Mallet for the first time produced seismic waves by controlled explosions.

INHIGEO Symposium (continued)

Cost*: Registration EU 380 (accompanying members: EU 100). Accommodations on Trinity College campus: EU 50.50/person sharing; EU 58.00 single. Nearby hotels: Approximately EU 70-130/night; Hostels EU 30.00/night. *Cost is given in the new European currency, not in pounds sterling.

An optional post-meeting field trip involves an anticlockwise circumnavigation around Ireland to visit classic areas of Irish geology, *e.g.*, Giant's Causeway. This trip is limited to 30 persons, so book early and don't be disappointed. Projected cost for this will be around EU* 500/person, plus food other than breakfast.

Call for Papers: Abstracts for papers are due to Dr. Wyse Jackson (address below) **by October 31, 2002.**

Contact: Dr. Patrick N. Wyse Jackson, Department of Geology, Trinity College, Dublin 2, Ireland.
Telephone: 353-1-6081477; Fax: 353-1-6711199. E-mail: wysjcknp@tcd.ie

NECROLOGY

With regret and sadness, the names of Division members and friends who died this year are listed below. We extend our sympathy to their families and friends; we share their loss.

S.W. Carey	Stephen J. Gould	Fritz Rehbock	John Sinkankas
Joseph A. Ewan	Mary C. Rabbitt	Bill Sarjeant	Malcom Weiss

If I have missed anyone, please let me know. Thanks. Editor.

Mary Rabbitt, retired from the USGS in 1978, is known for her history of the U.S. Geological Survey, published for the 75th anniversary of that organization, and for her work on John Wesley Powell. She was the Division awardee for 1984. **Stephen J. Gould**, a prolific writer and paleontologist, was the Division awardee in 1988. **Bill Sarjeant** was the HoG awardee for 1991 and is well known for his work in the history of geology, as well as being a fine musician.

HISTORY OF GEOLOGY AWARD FOR 2003 CALL FOR NOMINATIONS

The History of Geology Division gives this award to an individual for contributions of fundamental importance to the understanding of the history of the geological sciences. Achievements deserving of the award include, but are not limited to: publication of papers or books that contribute new and profound insights into the history of geology (based upon original research or synthesis of existing knowledge); discovery of and making available rare source materials; comprehensive bibliographic surveys; editing a thematically integrated collection of articles; organizing meetings and symposia in the history of geology; research into original sources; original interpretations of data; translations of key material; and exceptional service to the Division. The award, established by the History of Geology Division in 1981, consists of an embossed certificate and a pewter Revere bowl. The deadline for receipt of nominations by the selection committee is February 1st each year.

Recipients of the History of Geology Award

1982 George W. White	1989 Albert V. Carozzi	1996 Gordon L Herries Davies
1983 Claude C. Albritton, Jr.	1990 Gordon Y. Craig	1997 Kennard B. Bork
1984 Mary C. Rabbitt	1991 William A. S. Sarjeant	1998 Hatten S. Yoder, Jr.
1985 Cecil J. Schneer	1992 Michele L. Aldrich	1999 David R. Oldroyd
1986 Ursula B. Marvin	1993 Martin Guntau	2000 Hugh Torrens
1987 Martin J. S. Rudwick	1994 François Ellenberger	2001 Walter O. Kupsch
1988 Stephen Jay Gould	1995 Robert H. Dott, Jr.	2002 Dennis Dean

2002 History of Geology Division Officers

Chair: A. M. Clal Sengr, IT Avrasya Enstits ve Maden Fakltesi, Jeoloji Blm, Ayazaga 80626, Istanbul, Turkey; 90-212-285-6209; fax 90-212-285-6210; sengor@itu.edu.tr

First Vice-Chair: Roger D. K. Thomas, Dept Geosciences, Franklin & Marshall College, Lancaster, PA 17604; 717-291-4135; fax 717-291-4186; r_thomas@email.fandm.edu

Second Vice-Chair: Charles W. Byers, Dept Geology & Geophysics, University of Wisconsin, Madison, WI 53706; 608-262-8960; fax 608-262-0693; cwbyers@geology.wisc.edu

Secretary-Treasurer-Editor: William R. Brice, University of Pittsburgh, Johnstown, PA 15904; 814-269-2942; fax 814-269-2022; wbrice@pitt.edu

Past Chair: Sarah E. (Sally) Newcomb, 13120 Two Farm Road, Silver Spring, MD 20904; 301-622-0177; senewcomb@earthlink.net

Councilor-Liaison: Rena M. Bonem, Baylor University, Department of Geology, P.O. Box 97354, Waco, TX 76798; Rena_Bonem@baylor.edu

Webmaster: Hugh Rance, 4310 Kissena Blvd, 11 H, Flushing, NY 11355; hrance@nyc.rr.com

Don't forget the Division reception on Tuesday evening!!!!