MESSAGE FROM THE CHAIRMAN

Dear Colleagues:

For those of you who missed the Phoenix meeting, you did miss some excellent hydrogeology. Frank Schwartz and Les Smith repeated their short course on contaminant hydrogeology, an encore presentation! The course was again sold out and $1200 was contributed to the Division coffers. Also sold out was the field trip led by Tom Holzer and Mario Lluria, which evaluated the Salt River project and subsidence and earth fissures created by groundwater withdrawals. Other highlights included our Division symposium, Geochemical Reactions and Related Physical Processes Associated with Organic Compounds in Ground Water, convened by Mary Jo Baedecker and Don Siegel, and the excellent technical program put together by Jack Hess. The Division owes much to these and all the others who worked so hard to put on the annual meeting. So, on behalf of the Division, thanks!

The 1988 Annual Meeting is shaping up nicely at this point. The field trip program appears especially inviting, with three trips on the schedule. Tom Winter (who is also our Program Committee representative) is leading a visit to the Nebraska sand hills. This field trip will be co-sponsored by the Quaternary Geology and Geomorphology Division; Ken Kolm is leading a one-day trip on the hydrogeological features of the Denver area; and Marty Mifflin’s trip will cover the hydrogeology of desert basins. A one-day short course entitled, "Planning and Managing of Hydrogeological Investigations and Reports", has been proposed, and we are awaiting official approval by the GSA Short Course Committee. Our Division-sponsored symposium is being organized by Steve Wheatcraft. Its title is "Geophysical Methods for Hydrogeological Characterization and Problems of Groundwater Contaminant Transport". It should serve as a nice counterpoint to last fall’s geochemically-oriented symposium. I’d also like to encourage members of the Division to submit volunteered abstracts (both oral and poster session). The number of sessions we are allotted is in direct proportion to the number of abstracts submitted. Also, please note the theme sessions described elsewhere in this newsletter. Here is your chance to keep current or reacquaint yourselves with the geological roots of our field. Submit an abstract on the hydrogeological topic of your choice! This is also our chief opportunity to educate the rest of the earth science community as well as to inform our colleagues of our research accomplishments and views. Our Division, at GSA’s request, is also planning a poster-type display on the history of the hydrogeology and the Hydrogeology Division. Please send your ideas for this display to Al Dutton, Stu Rojstaczer, Dick Parizek, or Phil Lamoreaux.

In other Division matters, the Committee on Hydrostratigraphic Units, co-chaired by Paul Seaber (Illinois State Geology Survey) and James Miller (U. S. Geological Survey), continue their work on formalization of hydrogeological nomenclature. I’ve also appointed an ad hoc Committee on a Division Scholarship. Co-chaired by Sam Upchurch (University of South Florida), the committee will provide a recommendation for consideration at next fall’s business meeting. I am also considering establishing two three-person standing committees to assist with planning the annual meeting program (this has been suggested by several past Division representatives to the Program Committee) and to assist with future short course plans (suggested by GSA). I seek input from members on both of these.

The issue of hydrogeologist certification is again coming to the forefront. The Oregon Board of Geologist Examiners has issued a statement that any "registered geologist practicing in the field of hydrogeology or geothermal energy ... must be competent by both training and experience to engage in that practice". Other states may be moving in the same direction. Both the American Institute of Hydrology and the Association of Ground Water Scientists and Engineers are pursuing certification. Somewhere in the not-too-distant future our membership, either individually or as a group, will have to come to grips with this issue. We need to be aware of this trend.

Finally, remember the GSA regional meetings, each of which should have a hydrogeology symposium of interest plus general sessions. I’d also like to echo past-chairman Wayne Pettyjohn’s call that each member recruit a hydrogeologist colleague for GSA. We are the second largest group of the GSA today and it’s vital, in my view, that those who are making decisions about our subsurface environment and its resources should know something about the subsurface. Geology is a key to hydrogeology.

I wish you the best throughout 1988.

John M. Sharp, Jr., Chairman
Hydrogeology Division
The 1987 business meeting of the Hydrogeology Division of the Geological Society of America was called to order at the conclusion of the luncheon by Chairman Wayne Pettyjohn. The meeting was held in the Regency Ballroom B of the Hyatt Regency Hotel, Phoenix, Arizona, on Wednesday, October 18, 1987.

Pettyjohn introduced the members and guests seated at the head table: Jack Hess, 1987 Technical Program Chairman; L. W. Gelhar, Recipient of O. E. Meinzer Award; Mrs. Gelhar; Mel Schroeder, Liaison to Council; Shlomo Neuman, 1987 Distinguished Birdsall Lecturer; Jack Sharp, First Vice-Chairman and Chairman elect; Joe Rosenshein, Third Vice-Chairman and Citationist of Distinguished Service Award to John G. Ferris; Harry LeGrand, Citationist for Distinguished Service Award to Victor T. Stringfield; Mrs. Helen Marine, received Distinguished Service Award for I. Wendall Marine; John Costain; and Darryll T. Pederson, Secretary-Treasurer.

The first item on the agenda was the presentation of the O. E. Meinzer Award to L. W. Gelhar by Wayne Pettyjohn.

Pettyjohn then presented a Certificate of Appreciation to Shlomo Neuman, 1987 Distinguished Birdsall Lecturer.

Joe Rosenshein read the citation for the Award for Distinguished Service for John G. Ferris. John Harshbarger accepted the award for the family. Harry LeGrand read the Citation for the Award for Distinguished Service for Victor T. Stringfield; in Stringfield's absence, Bill Back accepted the award for him. George Davis read the citation for the Award for Distinguished Service for I. Wendall Marine; Mrs. Helen Marine accepted the award.

After a short break, the business meeting was resumed with the Secretary-Treasurer's report. The minutes of the 1986 meeting as printed in the winter newsletter were accepted.

The treasurer's report for the current year, through September 30, 1987, was a Division Fund balance of $6412.23, Birdsall Appropriated Fund balance of $12861.86, and a Memorial Fund balance of $736.44.

Chairman Pettyjohn then asked that the members observe a moment of silence in memory of those affiliates of the Division who had died during the past year. They are:

- John G. Ferris
- Fritiof M. Fryxell
- Fred H. Krae, Jr.
- Richard Q. Lewis, Sr.
- Raymond L. Nace, Sr.
- Carl V. Theis

The Secretary then announced the results of the election of officers for 1987. They are:

- John M. Sharp, Jr., Chairman
- Robert N. Farvolden, First Vice-Chairman
- Joseph S. Rosenshein, Second Vice-Chairman

The Chairman announced that Keros Cartwright has been appointed the Birdsall Lecturer for 1987. The 1986 Birdsall Lecturer, Shlomo Neuman, gave a report on the 22 schools that he visited during his tour. He emphasized the need to spend more time with students while visiting the different schools.

Chairman Pettyjohn announced that William E. Wilson, with the U. S. Geological Survey in Lakewood, Colorado, has accepted the position as editor of The Hydrogeologist. He recognized Thomas Holzer for his work as the previous editor.

The Chairman then announced an opening for the federal representative from the Division on the Hydrostratigraphic Committee. Incoming Chairman Jack Sharp will appoint the new representative.

Jack Hess, Technical Program Chairman, expressed thanks for all who helped him with this year's program. The field trips, symposium, short course and technical sessions were all well attended and well received. Seventy-nine volunteer abstracts were submitted. There were 10 invited papers in the Division-sponsored symposium. All together, there were 37 oral and 25 poster presentations. The rejection rate was 21 percent.

Mary Jo Baedecker reported on the symposium, "Geochemical Reactions and Related Physical Processes Associated with Organic Compounds in Ground Water", that she and Don Siegel organized. The session was well attended and well received.

Tom Holzer reported on the field trip, "Selected Hydrogeologic Problems in Central Arizona", that he conducted with Mario Lluria. The trip was completely filled. He suggested that GSA keep a record of applicants that were turned down after the 45 slots were filled. There appears to have been enough interest to fill a second bus.

Frank Schwartz reported on the short course, "Contaminant Hydrogeology", that he and Leslie Smith offered. There were 100 people in the course that was offered on Saturday and Sunday. Chairman Pettyjohn commented on the excellent reviews the course received.

Jack Sharp, incoming Chairman of the Hydrogeology Division, reported on the 1988 Annual Meeting in Denver. Tom Winter has been selected Technical Program Chairman for this meeting. The hydrogeology field trips will be offered in connection with this meeting. Marty Mifflin will conduct a 2-day desert basin trip. Tom Winter will offer a trip to the Nebraska Sand Hills in conjunction with the Geomorphology Division. Ken Kolm will lead a one-day field trip covering the hydrogeology of the Denver area.

John Moore offered to teach a short course on planning and managing projects and reports at the Annual Meeting in Denver. He described it as appealing to college students and others planning to become hydrogeologists. He has offered the course over 30 times at the National Training Center of the U. S. Geological Survey in Denver.

Several possible symposia were discussed for the 1988 Annual Meeting. Steve Wheatcraft is trying to organize a symposium on "Parameter Estimations for Transport Properties". A second possible symposium would recognize the contribution and achievements in hydrogeology over the last 100 years. Richard Parizek emphasized the need to point out the contributions of hydrogeology over the last 100 years and where we are going, and Bill Back said that the development of historical concepts in ground water will be the structure of the symposium. Jack Sharp urged that a proposal reflecting the concepts discussed be submitted.
Jack Sharp then discussed the consideration of a booth for the Hydrogeology Division at the Denver meeting that would portray the history of the Division. Philip Lamoreaux, Alan Dutton and Stuart Rojstaczer have offered to serve on a committee to plan and prepare the display. The Management Board of the Division has authorized up to $1500.00 for the preparation of the display. Among suggestions for the display were video-tapes and slides of prominent persons in history, as well as artifacts, such as field notes. People with ideas were urged to contact members of the committee and/or to join the committee. To hold costs down, Tom Holzer and Joe Rosenshein suggested the use of talent in the Division and in-house support that is available to some members of the Division.

Dave Stephenson discussed two theme sessions that have been approved for the 1988 Annual Meeting in Denver that are of particular interest to members of the Division. These are "Organic Compounds in Ground Water" and "Geology in the Service of Humanity in the 21st Century". He discussed the experimental purpose of these sessions to reach across Divisions of the Geological Society of America and the fact that volunteer papers are solicited for these sessions. He said more information regarding the theme sessions "Geology in the Service of Humanity" will be printed in a future issue of The Hydrogeologist.

John Moore reported that an open-file report has been published by the U. S. Geological Survey covering the History of Geology Symposium that was held at the 1976 Annual Meeting in Denver. Copies are available from him or his co-editor, Joe Rosenshein, at MS 444, Boston, VA. Copies can also be obtained for $10.00 from the National Water Well Association.

Several reports were given regarding the 28th Inter-national Geological Congress, to be held in the United States in July of 1989. John Moore reported that he and Bruce Hanshaw have prepared an article, "Development of Hydrogeologic Concepts in the United States of America", for inclusion in a special edition of episodes covering the Geology of the United States. This special volume was prepared as part of the lead up to the 1989 meeting. The 6,000-10,000 participants will have a choice of 16 symposia and various field trips in the hydrogeology area. One hundred and five field trips are planned before the meeting, 30 during the meeting, and 105 after the meeting. There will also be numerous short courses and workshops associated with the meeting.

Gene Simpson thanked the Division and Tom Holzer as editor for publishing information about the International Geological Congress. He reported 6 new members as a result of the publication. The organization currently has 1770 members with 250 members of the United States Chapter. The main products of the congresses are memoirs which provide a "window on the rest of the world".

Bill Back reported that the DNAG Volume, Hydrogeology of North America, should be ready by the end of the year. He also mentioned an American Geophysical Union publication prepared by Ed Lambert on the History of Hydrology that has just been published.

Paul Seaber, co-Chairman of the Hydrostratigraphic Nomenclature Committee, reported that the AAPG had sent their report back for revision, after which the draft will be published in several additional journals, such as Ground Water and the Journal of Hydrogeology. A year will be allowed for comments, after which a final report will be published.

Dave Stephenson reported on the Penrose Conference, "Geologic Decisions of the 21st Century". Several themes came up in that conference that supported recommendations of other groups. Some that are being implemented include the formation of an ad hoc Committee on Education that will determine what the role of GSA should be in the area of public education. A task force on ethics will also be formed. It is hoped that the topic of ethics will also be on the program at some functions of GSA. Chairman Pettyjohn reported that his article on ethics in The Hydrogeologist generated a lot of correspondence, further pointing out the need to address this area.

Steve Wheaster, Chairman of the Publication Committee, discussed possible places where hydrogeology papers might be published. GSA Special Papers were cited as a good format for some of the symposia sponsored by the Hydrogeology Division. He suggested that Richard Parizek's idea (where we are and where we are going) for a symposium would be one example that would lend itself to a special paper.

Mel Schroeder, outgoing Division Liaison to Council, reported that Priscilla Crew, State Geologist of Minnesota, was elected to replace him as Chairman. She was unable to attend either the Management Board meeting in the morning or the Hydrogeology Division meeting because of a conflict with the GSA Council meeting. Mel Schroeder expressed his appreciation for the opportunity to serve the Division and work with people such as Stringfield and Ferris.

Jack Sharp announced that Charles Kreitler has organized a symposium, "Deep Well Injection of Liquid Wastes in Saline Formations: Hydrologic and Geochemical Processes", for the Spring Meeting of the American Geophysical Union. He is soliciting papers for the symposium.

Dave Stephenson called attention to the field trips offered daily by the exhibitor, WestBay Instruments, during the meeting to demonstrate their products.

Joe Rosenshein announced a symposium during the International Geological Congress on "Geologic Controls on Development of Regional Aquifers in North America". Dave Stephenson also announced a symposium on "Water Resources Management".

Chairman Pettyjohn discussed a request to set up a student research award to be sponsored by the Hydrogeology Division. An ad-hoc committee will be appointed to investigate establishment of such an award. The committee will report back to the Division at the next Annual Meeting.

Chairman Pettyjohn expressed appreciation for the opportunity to serve as Chairman of the Division. He then turned the chairmanship over to Jack Sharp, who declared the meeting adjourned.

CONTRIBUTE TO YOUR NEWSLETTER!

As the new editor of The Hydrogeologist, I would like to urge readers to send me news items and suggestions for improvement of the newsletter. The next issue will come out in September 1988, prior to the Annual Meeting. I look forward to hearing from you!

Bill Wilson
Editor
TREASURER'S REPORT

As of December 31, 1987, the Division had a balance of $21,709.74 in the treasury.

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CALL FOR MANUSCRIPTS

The Geological Society of America Bulletin has an extremely wide circulation both nationally and internationally. I'd like to encourage members to submit their hydrogeological manuscripts to the Bulletin. Hydrogeologic studies of any scope are acceptable, but especially pertinent are studies that might also be of overlapping interest with other areas of the earth sciences.

I'd like to see more hydrogeology articles in the Bulletin. This is an excellent vehicle for educating our geological colleagues. I can't, of course, preguarantee the acceptance of your manuscripts. That will depend upon the reviewers' comments. The current acceptance rate is about 50 percent.

Jack Sharp, Associate Editor

IGC SYMPOSIA

Listed below are some of the International Geological Congress symposia that are of particular interest to hydrogeologists. These will be offered at the IGC, Washington, D.C., July 1989. Abstracts are solicited, due October 1, 1988. See the IGC Information Circulars for details.

- Geologic controls in the evolution of regional aquifers in North America
- Hydrogeologic controls on groundwater chemistry
- Hydrology of rocks of low permeability
- Assessment of groundwater models
- Hydrogeology of wetlands
- Water resource management
- Subsidence and collapse: Problems of prediction and mitigation
- Protecting groundwater: management of toxic and non-toxic wastes
- Hydrogeology of radioactive waste disposal

SOLICITATION FOR SYMPOSIUM PAPERS

"HAZARD REDUCTION IN THE 21st CENTURY"
1988 GSA CENTENNIAL CELEBRATION

As part of the Society's centennial celebration, the Engineering Geology Division is sponsoring a symposium entitled "Hazard Reduction in the 21st Century". The purposes of the symposium are to review the progress made in the last 100 years in reducing the impact of hazardous geologic and hydrologic processes and to identify some of the challenges that must be met if we are to reduce further the impact of natural and man-made hazards in the next 100 years. The symposium is an "open" one, which means no more than 75 percent of the speakers are invited. The organizers of the symposium encourage anyone who is working on hydrogeologic problems with hazardous implications to submit an abstract for the program. Hazardous waste disposal and flooding are obvious topics that are of immediate interest to division members, and the conveners are receptive to any other topics involving man-made or natural hazardous processes. For additional information, contact either Thomas L. Holzer (415-329-5637) or F. Beach Leighton (714-250-1421). Be sure to indicate when you submit your abstract that it should be considered for the symposium.

PLANS UNDERWAY FOR ST. LOUIS MEETING

Planning is already underway for the GSA Annual Meeting in St. Louis in 1989. Paul Blanchard, University of Missouri, and Paul Seaber, Illinois State Geological Survey, have agreed to serve as co-chairmen for the hydrogeology program. They are looking for symposia topics that would have broad interest and be technically sound and appropriate. Jerry Vineyard, 1989 Field Trip Chairman, needs your ideas for a field trip, by June 1. The emphasis of the technical programs and field trips will be on the future and leading-edge technology. Please contact these people to help insure an exciting hydrogeology program in 1989!
PAST CHAIRMAN
HYDROGEOLOGY DIVISION

In keeping with the historical theme of the Centennial Celebration of the 1988 Annual Meeting in Denver, below are listed the Past Chairmen of the Hydrogeology Division. Thanks to Dave Stephenson for compiling and providing this list.

1959 G. B. Maxey (Acting)
1960 G. B. Maxey
1961 G. B. Maxey
1962 Joe Poland
1963 Phil LaMoreaux
1964 Allen Agnew
1965 Vic Stringfield
1966 Stan Lohman
1967 Frank Foley
1968 John Harshbarger
1969 C. V. Theis
1970 Jim Geraghty
1971 C. L. McGuinness
1972 O. M. Hackett
1973 Robert Bean
1974 Jerry Meyer
1975 Stan Davis
1976 Paul Witherspoon
1977 John Bredehoeft
1978 Steve Born
1979 Keros Cartwright
1980 Robert Dingman
1981 John Stone
1982 Leonard Wood
1983 Dave Stephenson
1984 George Davis
1985 Grover Emrich
1986 Bill Back
1987 Wayne Pettyjohn

COVER PHOTO SOUGHT

Bill Back solicits from members photographs that would be appropriate for the cover of the DNAG volume, "Hydrogeology of North America". GSA staff will select the winner from among the best 3 submittals. Send your 35 mm entries ASAP directly to:

Bill Back
U. S. Geological Survey
MS 432 National Center
12201 Sunrise Valley Drive
Reston, VA 22092
(703) 648-5856

REPORT FROM HYDROSTRATIGRAPHIC UNIT COMMITTEE

The Hydrostratigraphic Unit Committee met in Phoenix, Arizona, on Monday, October 26, 1987. In attendance were Seaber, Miller, Davis, and Schwartz. They discussed progress over the past year and plans for the future. The committee has prepared a draft Code for hydrostratigraphic units that is to be a part of the North American Code on Stratigraphic Nomenclature. The draft was approved two years ago by the North American Commission on Stratigraphic Nomenclature and submitted to the editors of the American Association of Petroleum Geologists Bulletin for publication. The editors sent it back and wanted an article to accompany the draft Code rather than a preamble in the draft Code. The article is being written and will be resubmitted this spring to AAPG for publication. An article on hydrostratigraphic units will appear in the DNAG Volume, Hydrogeology of North America. The Committee received permission from the North American Commission on Stratigraphic Nomenclature to publish an article and the proposed Code, after publication by AAPG, in "Ground Water" or "Geology" or both.

IAH SEEKS MEMBERS

GSA Hydrogeology Division members are encouraged to join the International Association of Hydrogeologists. Each year a national chapter of the IAH organizes a Congress; the next Congress will take place in Guilin, China, October 10-15, 1988 on the theme of Karst Hydrogeology. All members of IAH receive copies of Memoirs, whether or not they attend the Congresses. Membership in IAH is obtained through national chapters; currently, the U. S. chapter has 225 members. Yearly dues are $28.00. Further information may be obtained by writing to E. S. Simpson, Secretary-Treasurer of the IAH/US Committee, Dept. of Hydrology and Water Resources, University of Arizona, Tucson, AZ 85721.

ABSTRACTS SOUGHT FOR THEME SESSIONS
GSA CENTENNIAL MEETING, DENVER

GSA has approved 8 general theme sessions for the Annual Meeting in Denver in 1988. Of particular interest to hydrogeologists is the one entitled, "Geology in the Service of Humanity in the 21st Century". The conveners are Ed Buchwald, Chairman of the GSA Committee on Geology and Public Policy, and Dave Stephenson, who was the principal conveners for a recent Penrose Conference, "Geological Decisions for the 21st Century". The majority of papers at this theme session will be volunteered, and members of the Hydrogeology Division are especially encouraged to contribute. The major impetus should be on the responsibility of the geological community to make appropriate and significant contributions to society.

Contributors of abstracts for the Annual Meeting should also keep in mind two informal theme sessions that the Hydrogeology Division would like to sponsor, if enough papers are submitted: "History of Hydrogeology", and "Interrelationships of Ground Water and Surface Water in Small-Scale Systems". The latter would include lakes, wetlands and small watersheds. Abstracts for these theme sessions and for the general sessions are due at GSA by June 10. Call Tom Winter, Hydrogeology Program Committee representative, at (303) 236-4987 for additional information.
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DIVISION LIAISON TO COUNCIL
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Keros Cartwright, Lecturer

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David A. Stephenson, United States Committee for the International Association of Hydrogeologists

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James Miller, Co-Chairman and Federal Representative
Keros Cartwright, Member-at-Large
George Davis, Industrial Representative
Franklin W. Schwartz, Canadian and Academic Representative
Rodolfo Del Arenal Capetillo, Mexican and Academic Representative
Clair Davidson, USGS Representative

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