The Engineering Geologist

THE GEOLOGICAL SOCIETY OF AMERICA

NEWSLETTER OF THE ENGINEERING GEOLOGY DIVISION OF THE GEOLOGICAL SOCIETY OF AMERICA

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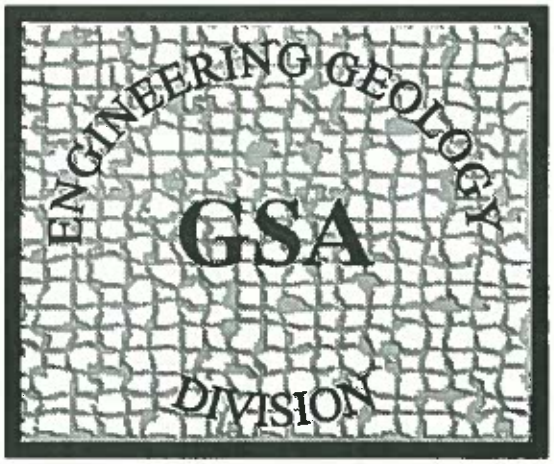
Chairman's Message



One of the more pleasant and rewarding duties of the chairman of the Engineering Geology Division is to see the fruits of his labors at the annual meeting. As Chair-Elect the preceding year, the Chairman had the duty of making sure that the Division sponsored and helped to organize symposia and theme sessions. In addition, the Chair-elect cajoles, prods, and coerces members to lead field trips and to offer continuing education courses at the meeting. The latter of these activities are often the main attraction at the Annual Meetings for many of the members.

Last years' annual meeting, if you missed it, was in Seattle and was one of the more interesting and educational meetings that I have attended. The Engineering Geology Division sponsored or was the instigator of two excellent field trips, one of which, *Landslides of Western Washington*, (name later changed by unanimous vote to *Brewpubs and Landslides of Western Washington*) was attended by your Chairman. This 2 1/2 day trip led by Tom and Dorian Kuper, Bob Schuster, Scott Burns, and Anne MacDonald, took us to view landslide dams on the Olympic Peninsula, transitional landslides in Basalt in the Portland area and the Columbia River Gorge, and finally to Mount St. Helens to view lahars and megaslides caused by the 1980 eruption. While en-route to view landslide dams caused by rockslides, Bob Schuster called on the landslide gods to provide an example and, lo, the road to the first field trip stop was blocked by a rockslide.

Even more memorable than the landslides were the excellent food and the out-of-the-way wineries and micro-breweries previously scouted by one of the trip leaders, Dorian Kuper who demonstrated some expertise, and perhaps a calling for locating bakeries, good restaurants, and wineries. Tom and Dorian Kuper will be leading more trips during the upcoming Cordilleran section meeting in May of 1996. I advise signing up now.

Reports on the other EGD sponsored trip on the Engineering Geology of Seattle led by Dick Galster and Bill Laprade were also good. I was sorry I could not attend both.

Items of interest to Division members discussed during the annual EGD Management Board meeting include the name change of the Division to Environmental/Engineering Geology Division and the new joint publication with the Association of Engineering Geologists entitled *Environmental and Engineering Geoscience*. By now, many of you have had a chance to read the first two issues of the new publication. Editors Norm Tilford

and John Sharp have done a magnificent job and should be congratulated. The new publication benefits the Association of Engineering Geologists by making its journal better known, attracting more manuscripts, and more subscriptions. The arrangement will give GSA a long-sought publication outlet for the applied aspects of geology.

With regard to the proposed name change of the Engineering Geology Division, please read the *White Paper* by Jerry DeGraff, past Chairman of the Division, in this newsletter on the history and rational for the change. Be sure to vote on the proposal with the enclosed ballot so that the EGD Management Board may submit the proposal, with membership approval, to GSA Council at the next annual meeting.

A new tradition of the annual meeting is to have all the Division Chairs attend a breakfast meeting during which we could discuss some common goals and problems. It seems one of the common problems was a general, but not precipitous, drop-in membership in the divisions as a whole. The EGD membership, for example, dropped from 936 in 1993 to a current membership of approximately 816. This gives us cause to reflect on the purpose and advantages of Division membership. A quick review of past Chairman's Message sections in the EGD newsletter reveals that almost all the previous messages have included an explanation of membership advantages and a request for the members to do some recruiting of their colleagues into the ranks of the EGD.

It seems the message has gotten out to the members in previous years; what then is the reason for the decline in membership? To some degree, the decline may be related to the general malaise of the engineering geology/geotechnical profession in California because of the recession. It would be interesting to research the geographical areas in which the loss of members is occurring. However, this would not explain the loss of members that the other divisions are experiencing.

It is interesting to note that the number of engineering geology abstracts submitted to the EGD classification at annual meetings has remained fairly constant although, in my opinion, fairly low over the last 10 years. The average has been only 24 abstracts. Abstracts classified as environmental geology are sent to the EGD for review and have steadily increased during the last four years from 49 in 1990 to 155 in 1994.

The Association of Engineering Geologists has experienced a drop in attendance at their annual meetings that can also probably be attributed to the general decline of jobs in the construction industry. The AEG's technical sessions tend to have more papers dealing with the narrower definition of Engineering Geology (geology as applied to engineering practice, especially mining and civil engineering) and are attended by the more senior geologists of geotechnical organizations. There is a noticeable lack of younger staff geologists who, because of industrial belt-tightening, are not provided either time-off or funding to attend the annual meetings.

The AEG's problem demonstrates the general decline in the industry and helps to explain a drop in the EGD membership. However, with membership being down, but environmental abstract submittals being up at the annual GSA meetings, it would seem that the decrease in the number of geologists practicing more traditional engineering geology would be offset by the increase in geologists practicing in the field of environmental geology. If this were the case and environmental geologists considered the EGD a proper home, we should be seeing a general increase in membership that approximately parallels the increase in the number of environmental geologists. This does not seem to be the case.

Environmental geologists and engineering geologists have much in common as so well presented in Jerry DeGraff's *White Paper*. It is hoped that the proposed name change will help bring these two related disciplines closer together and that environmental geologists will not be hesitant in taking part in the activities of the Division.

Next year we will hopefully be recognized as the Environmental/Engineering Geology Division to more accurately reflect our members' activities.

Michael W. Hart
Chairman

GSA Engineering Geology Division Distinguished Practice Award

The Engineering Geology Division of the Geological Society of America is pleased to recognize the continuing contributions of *Richard W. Galster* to the technical and professional stature of Engineering Geology by presenting the Distinguished Practice Award to him.

Richard W. Galster has had a distinguished career in Engineering Geology as a practitioner, a leader, and an author of numerous publications. A native of Seattle,Washington, he earned B.S. and M.S. degrees in Geology from the University of Washington. In 1955 he joined the Seattle District, Corps of Engineers; as staff geologist and later as lead geologist he participated in engineering geological investigations, the design and construction of Howard Hanson, Lower Monumental, and Wynochee Dams in Washington, and Libby Dam in Montana. Galster participated in extensive highway and railroad relocations, including the 7 mile-long Flathead Tunnel, and the pioneering use of rock slope instrumentation for the Libby Project. He was involved with a variety of military projects including site evaluation for the first group of Minutemen ICBMs in Montana.

In 1973, Mr. Galster became district geologist and chief of the Seattle District Geology Section, a position he held until his retirement from government service in 1985. During this period he supervised seismic safety evaluations for 18 dams in Washington, Oregon, Montana, California, and Idaho; provided construction advice for completion of the Libby Project; and directed geological investigations, excavation plans, and specifications for Libby Reregulation Dam. He directed investigations and provided contract and construction input for modification of Chief Joseph Dam on the Columbia River, including the highly controlled demolition of concrete structures. Feasibility studies for several on-stream hydropower and pumped storage sites in the Pacific Northwest, and coastal projects were carried out under his direction.

In 1980 he went to China on special assignment as the geologist member of an eleven-man corps design review team for the Longtan Hydropower Project. From 1981 to 1985 he represented the Corps of Engineers on the U. S. Nuclear Regulatory Commission advisory group for a proposed high-level nuclear waste repository at Hanford, Washington. In 1985 he was awarded the Department of the Army Decoration for Meritorious Civilian Service. Since leaving government service in 1985, he has served as a consultant to the U. S. Nuclear Regulatory Commission Center for Nuclear Waste Regulatory Analysis - Southwest Research institute, Lawrence Livermore National Laboratory, the U. S. Bureau of Reclamation, the U. S. Army Corps of Engineers, and numerous engineering firms. He is currently an adjunct faculty member in the Department of Civil Engineering at the University of Washington, where he teaches a graduate class in Engineering Geology.

In 1993 Mr. Galster was recognized by the Engineering Geology Division for his work on *Engineering Geology in Washington* for which he served as editor or co-editor of four chapters, and authored or co-authored 21 papers (Galster, Chairman, Centennial Volume Committee, Washington State Section, *Association of Engineering Geologists, Bulletin 78*, Washington Division of Geology and Earth Sciences, 1989). He received the Burwell Award for this two-volume, 1234-page publication of 13 chapters featuring 127 papers written by more than 100 authors. The volumes commemorate the 100th anniversary of Washington statehood (1889-1989), provide a reference of Engineering Geology in Washington, and a compendium of case histories relating geology to significant engineered projects in the state. The publication is dedicated to Howard Coombs, the 1971 Chairman of GSA's Engineering Geology Division. *Engineering Geology in Washington* is clearly a publication of distinction which advances knowledge concerning the principles and practice of Engineering Geology.

Mr. Galster is a member and past president (1982-1983) of the Association of Engineering Geologists, a fellow of the Geological Society of America, and past chairman (1978) of the GSA Engineering Geology Division. He is a member of the U. S. Committee International Commission on Large Dams, a member and Secretary of the U. S. Executive Committee for the International Association of Engineering Geology, and member of the American Arbitration Association. Between 1986 and 1989 he was a member of the U. S. National Committee for Rock Mechanics, National Research Council. He has received awards from the Association of Engineering Geologists recognizing his publications and service to the profession.

For his long, dedicated leadership in Engineering Geology, in both the Geological Society of America and the Association of Engineering Geologists, his practice with the Corps of Engineers, his publications, and as a consultant, Richard W. Galster is recognized by the Engineering Geology Division with the Distinguished Practice Award.

White Paper On Proposed Name Change From Engineering Geology Division (EGD) To Environmental/Engineering Geology Division (EEGD)

For a number of years, the management board of the Engineering Geology Division of the Geological Society of America has considered and debated changing the name of the Division. The idea first came up for discussion October 30, 1990 at the annual board meeting in Dallas, Texas. It was one of several recommendation reported to outgoing Chairman Jeff Keaton and other Board members by Dr. Chris Mathewson in his report on Long Range Planning. This stimulated discussion of the relationship between environmental and engineering geology and the need for developing outreach to GSA members who identify themselves as environmental geologists during new business under incoming Chairman Perry Rahn. Several Board members were to work over the following year to develop a formal proposal for the Board meeting in San Diego. At the October 1991 Board meeting, the name change was not carried further by then outgoing Chairman Perry Rahn or incoming Chairman Charles Welby for lack of a formal proposal. During the October 1992 Board meeting in Cincinnati, outgoing Chairman Charles Welby proposed that the Division change its name from Engineering Geology Division to Environmental and Engineering Geology Division. After discussion, the Board tabled the motion because further sensing of the Division membership was felt necessary. Incoming Chairman Jerome DeGraff took responsibility for this assessment in preparation for the 1993 Board meeting in Boston. In the first issue of *The Engineering Geologist* [29(1), 1993], an article appeared by Jerome DeGraff discussing the idea of a name change and asking the membership for their views. A total of six letters were received from Division members on this issue; four in favor and two against. At the October 1993 Board meeting in Boston, Mr. DeGraff untabled the motion to change the name of the Division. He summarized the points raised by the letters from the membership. After discussion, the Board voted to request that the Division be renamed the Environmental and Engineering Geology Division. GSA Councilor Genvieve Atwood who attended the Board meeting was asked to present this request to the GSA Council later that week. Incoming Chairman Rhea Graham documented this action in her message in The *Engineering Geologist* [29(1), 1994], she eloquently noted:

> This vote signals our collective recognition of the need to be more inclusive of those geologists and other earth scientist members of GSA who find the application of geology to environmental issues their professional home. Most of us are aware of the long tradition that engineering geology has played in applying geologic principles to our environment. We feel a special ability and affinity for the arena of environmental geology based on our experiences in advocating that the site geology be fully integrated into the science of decision making for actions on our lands.

At the 1994 Board meeting in Seattle, incoming Chairman Mike Hart found that the GSA Council had not acted for lack of a formal request from the Engineering Geology Division. Mr. Jerome DeGraff took responsibility for preparing a White paper outlining the reasons for the name change. This white paper will be presented with a formal request to GSA Council for renaming the Division.

Rationale for Name Change

Promote Inclusion

A significant proportion of GSA members categorize themselves as environmental geologists. As of March 1995,1,223 members checked environmental geology as their principal professional activity on membership renewal forms. This represents about 9.5 percent of the total GSA membership. It is also an increase from about 8.75 percent in 1993.

A large number of the abstracts submitted for technical sessions at GSA annual meetings are designated as being environmental geology. While environmental geologists share a majority of the technical interests traditionally associated with engineering geology, they do not always feel equally comfortable with considering themselves to be engineering geologists. As George Kiersch (1993) pointed out in an AEG News article, the early application of the term *engineering geology* in 1874 has lead many to the misconception that engineering geologists do *engineering*. He noted that GSA Centennial Special *Heritage of Engineering Geology—First Hundred Years 1888-1988* provides a number of examples showing engineering geology has a history of addressing environmental and land use issues. However, perceptions make it difficult for some environmental geologists to see the Engineering Division as an appropriate technical affiliation. Additionally, there are some technical aspects of environmental geology such as medical geology and hazardous waste remediation

which are outside traditional engineering geology.

Technical divisions provide a means for increasing the benefits of GSA membership and strengthening the profession of geology. It is important for GSA members to recognize and join a Division made up of fellow professionals sharing similar interests. The many similar interests between of environmental geologists and engineering geologists make our Division a logical choice. It is primarily a matter of making a change to reflect our desire to include environmental geologists with the many engineering geologists who share their interest in ensuring geology receives proper consideration in decisions affecting land use and human interactions with our environment.

Formalize An Existing Situation

The Engineering Geology Division has taken responsibility for environmental geology in the development of technical sessions for the GSA annual meeting. For at least the last 5 years, the Division has provided review of all abstracts for environmental geology sessions including symposia. Decisions on both environmental and engineering geology technical sessions are assigned to the Engineering Geology Division representative to the Joint Technical Program Committee. The Division has given strong support to the Institute for Environmental Education since its inception. This has included working on joint technical programs.

The Engineering Geology Division has a history of sponsoring and supporting publications on environmental geology. For example, an early (1974) GSA publication devoted to environmental geology was *Engineering Geology Case Histories No. 10* edited by H. F. Ferguson. It included papers such as *The Geologic Environment: Forgotten Aspect in the Land Use Planning Process* by C. C. Mathewson and C. C. Font and *Environmental Analysis in Local Development Planning* by H. G. Montgomery. The 1977 *Reviews in Engineering Geology* (vol. 3) edited by D. R. Coates entitled Landslides contained five sections including one on environmental planning. In 1984, T. L. Holzer edited a *Reviews in Engineering Geology* entitled *Man-induced Land Subsidence* which focused on a variety of environmental aspects of this geologic process. More recently, the Division has given its strong endorsement and support to the new joint Association of Engineering Geologists and Geological Society of America publication, *Environmental and Engineering Geoscience.* This publication gives GSA members publishing papers on environmental geology and engineering geology a scholarly outlet which the *GSA Bulletin* was unwilling to provide. Many of the technical programs planned by the Division for the GSA annual meeting are designed to be a forum for environmental geology.

In practice, the Engineering Geology Division has been acting as the defacto Environmental and Engineering Geology Division. It would appear advantageous to GSA to formally acknowledge the situation which has developed as the field of environmental geology has grown. It also would reflect the change in engineering geology practice which has seen many traditional engineering geology firms shift from traditional engineering geology work and evolve into firms which have major involvement with land use planning, site assessment for hazardous waste remediation, and environmental planning.

Request

The decision to request that the Division be renamed the Environmental and Engineering Geology Division was not made in haste or without deliberation. It was initiated by the findings of our Long Range Planning committee which felt that many GSA members were not being fully served for lack of a technical division which focused on their concerns. The discussions at subsequent Boards meetings, informal debates among interested Division members, and responses to the solicited comments from Division members led to a formal motion being passed to request this action by GSA Council. The rationales for this name change are stated above. While it may be fashionable for fields to attach the word *environmental* to their name, the Division wishes merely to serve all GSA members with a special interest in the role of geology in issues such as geologic hazards, land use planning, earth materials, and hazardous waste remediation.

Respectfully submitted,
Jerome V. DeGraff

DENVER IN 1996

It is time for the Engineering Geology Division to plan for the division sponsored activities at the 1996 Denver Annual GSA Meeting. We need ideas from the members for field trips and symposia. What topics would you like to see addressed? Can you give a talk or lead a trip on the subject, or tell us who else might be able to?

Geologic Map Applications in Engineering Geology has been suggested as a symposium topic. Can you suggest case histories of good or bad examples of the use (or non-use) of basic geologic mapping information in engineering projects?

Send your ideas and information for this or other symposia and field trips to the division secretary, Helen Delano at the Pennsylvania Geological Survey, P.O. Box 8453, Harrisburg, PA 17105-8453; phone 717-787-6029; FAX 717-783-7267; E-mail at hdelano@geo.pader.gov

Nominees for 1995-96

Engineering Geology Division Officers
Biographical Sketches

Chairman

John R. Giardino born in Pueblo, Colorado in 1946, married with one daughter. In 1969 he received a B.S. in Geology and Geography from the University of Southern Colorado–Pueblo; an M.A. in Geography with a minor in Geology from Arizona State University–Tempe, 1971; and a Ph.D. in Geography with minors in Geology and Soils from the University of Nebraska, 1979. Presently, he is professor and chair in the Department of Geography at Texas A&M University, College Station Texas. Postions he has held since 1989. Rick has been editor of *The Engineering Geologist* since 1990; Chairman of the Publication Committee, EGD-GSA since 1989; Editor, *Institute for Tertiary-Quaternary Studies Newsletter*, University of Nebraska, 1977. One of his most recent publications as co-editor with J. Vitek is "The Research Frontier & Beyond, Special Issue," *Proceedings of the 24th Binghamton Symposium in Geomorphology*, Elsevier. Rick has been a Fellow of the GSA since 1991; chair of the G.K. Gilbert Award Committee, Geomorphology Specialty Group of the Association of American Geographers (1992); member of the American Association of Petroleum Geologists 1982 present. His current address is Department of Geography, Texas A&M University. College Station Texas 77843-3147. Fax 409/862-4487.

Chairman-Elect

Helen Louise Delano born in 1953 in Bethesda, Maryland. She married in 1989 and has one son. She received a B.S. in Geology from Tufts University in 1974, M.A. in Geological Sciences from State University of New York at Binghamton in 1979. Since 1980, she has been employed by the Pennsylvania Geological Survey (Department of Environmental Resources until July 1995, now the Department of Conservation and Natural Resources) in Pittsburgh and Harrisburg. In 1979-80 she worked for the National Park Service on an Archaeological Survey of the Cap Code National Seashore. Her professional and research interests include landslides and landslide susceptibility, coastal erosion and bluff processes, Appalachian geomorphology, and geology and public policy issues. Professional society memberships and activities include: Geological Society of America; co-Chairman of the 1987 Northeast Section meeting; Burwell Award Committee 1993-1995; Engineering Geology Division management board representative 1994, secretary-treasurer 1995; International Association of Engineering Geologists; Association of Engineering Geologists; Association for Women Geoscientists, Allegheny Ohio Chapter Secretary; Pittsburgh Geological Society (past President); and the Harrisburg Area Geological Society. Her current address is Bureau of Topographic and Geologic Survey, P.O. Box 8453, Harrisburg, Pennsylvania 17105.

Secretary

Vincent S. Cronin born in 1957 in Hollywood, California. He earned a B.A. degree in Geology from Pomona College in 1979, an A.M. degree in Earth Sciences from Dartmouth College in 1983, and a Ph.D. in Tectonophysics/Geology from Texas A&M University in 1988. He is currently an associate professor of geosciences at the University of Wisconsin at Milwaukee, where he teaches courses at the graduate and undergraduate levels in engineering geology, structural geology, and plate tectonics. He has worked as a geological intern at Phillips Uranium Corporation, Amoco Exploration Company, and Exxon USA. He has also worked as an engineering geologist in California with Slosson and Associates (1979-80, 1983-84), and continues to consult on matters such as aerial image analysis; landslide detection, analysis, and monitoring; stability of bluffs above Lake Michigan; and recognition of seismogenic faults using geological and geophysical means. Dr. Cronin is a registered geologist in Wisconsin. He has authored or co-authored 17 published papers, on topics such as Himalayan stratigraphy and structure, plate kinematics, the recognition and assessment of geologic hazards, and professional ethics in applied geosciences. He has served as a reviewer for many funding agencies and journals, including the *Geological Society of America Bulletin* and the *Association of Engineering Geologists Bulletin*. In addition to being a GSA member, he is a member of the American Geophysical Union, the American Association of Petroleum Geologists, and the National Association of Geology Teachers. He has served as a member of the EGD's Nominations Committee and Long-Range Planning Committee. He is married to a geologist, and has a 3 year old daughter.

Member-At-Large

Scott Burns born Portland, Oregon 1947. Married with three children. He graduated from Stanford University with a BS. in 1969 and with a MS in 1970. He earned his Ph.D. in 1980 from the University of Colorado-Boulder. Dr. Burns is an associate professor at Portland State

University were he has taught since 1990. Previously, he was an assistant professor at the American College of Switzerland, 1970-1975; a research assistant at the University of Colorado-Boulder, 1976-1980; an assistant professor at Lincoln College in New Zealand, 1980-1981; an assistant professor at Western Washington State University, 1981-1982; a visiting assistant professor at the University of Colorado-Boulder, 1982; and associate professor at Louisiana Tech University, 1982-1990. He has served in many areas for GSA, including Cordilleran Section: field trip leader 1992, field trip organizer 1996, organization committee 1996, public relations committee chairman 1993-1995; Engineering Geology Section: Burwell Committee 1993-1996, chairman 1995-1996. Dr. Burns has been honored with a Kellogg National Fellowship award and is a member of: the Geological Society of America, the National Association of Geology Teachers, the Soil Science Society of America, the Association of Engineering Geologists, American Quaternary Association; International Soil Science Society, International Association of Engineering Geologists, National Science Teachers Association, Sigma Xi. His research interests include landslides, hazard mapping, radon, heavy metals, slope stability, soils, Quaternary geology, and löss.

In Memory

James F. Quinlan

July 26, 1995

Geological Society of America,

It is my sad duty to inform the society of the passing of my dear friend and 1986 co-recipient of the Society's E.B. Burwell Award, Dr. James F. Quinlan. Dr. Quinlan died on Friday, July 21, 1995 after an illustrious career in geology and karst hydrologeology. He received his bachelor's degree in geology from Virginia Polytechnic Institute in 1959, and his doctorate from the University of Texas at Austin. After completing post-doctoral studies at McMaster University he served as the first research hydrogeologist at Mammoth Cave National Park from 1973 through 1990. During this period he investigated the aquifers associated with the park. This compilation stands as the most comprehensive understanding of a karst aquifer ever made.

Dr. Quinlan's field experience included more than 35 years of research and observations in karst terranes of 25 countries and 25 states. He was author or coauthor of nearly 200 publications on karst related topics. Among these works are those which form the foundation of modern procedures for contaminant monitoring in karst aquifers. He recently recounted these procedures and their rationale to groups around the country as the Society's Robert Jahn's lecturer.

Many of his friends and colleagues gathered in Nashville, Tennessee on July 25 to share remembrances of their colorful comrade. Dr. Quinlan was 58 years of age.

Sincerely,

Ralph O. Ewers, Ph.D.
Eastern Kentucky University

Division Duties Of The Management Board Members

DUTIES OF THE CHAIR

The Chair of the Division is the convener and director of the Management Board and the Division's representative to GSA Headquarters, the profession, and the public. General duties of the Chair include:

1. Manage the general operations of the Division.
2. Create and dissolve committees, appoint committee chairpersons, and members.
3. Establish agenda items for Management Board meeting and chair the meeting.
4. Organize the annual Division Luncheon, invite guests, MC luncheon.

Schedule of Events

Annual Meeting GSA of Year Elected: Chair Management Board meeting upon installation of Division Officers (New Business), review minutes prepared by outgoing Secretary.

December 15: Insure that Past-Secretary has submitted copy of reviewed minutes to entire Management Board and that a copy of the Division Annual Report and final minutes of the past Management Board meeting have been received for submittal to GSA Headquarters by past-Chair.

Make all committee appointments, report decisions to Secretary.

Winter: Coordinate planning for the next annual meeting of the GSA. Establish space and schedule requirements for the annual Management Board meeting and Division Luncheon, inform Secretary.

Spring: Verify with secretary that complete annual meeting space/schedule requests have been submitted to GSA for annual meeting planning. Verify that Award and Burwell Committees have selected nominees and have informed secretary. Verify that Secretary has notified GSA Headquarters. Select citationist for Burwell Award, inform Secretary.

Two Months Prior to Annual GSA Meeting: Confirm with Secretary Management Board Meeting schedule and location and of Division Luncheon, prepare and send invitations to Division functions. Verify that Burwell winner and citationist are preparing response and citation.

One Month Prior to Annual Meeting: Prepare preliminary list of items for Agenda for Annual Management Board Meeting send to Secretary. Verify that Awards are being prepared by Headquarters and that they will be available at Division Luncheon. Verify visitors attendance at Luncheon, arrange for tickets, confirm with Secretary that Luncheon arrangements will fit the head table party.

Annual Meeting: Schedule any necessary special Management Board working meetings. Convene Annual Division Management Board meeting. MC Division Luncheon.

DUTIES OF THE CHAIR-ELECT

The Chair-Elect of the Division is the General Chair of the Engineering Geology Division Program Committee for the next Annual Meeting of the Geological Society of America and serves as the Division Representative on the Joint Technical Program Committee. Duties of the Chair-Elect include:

1. Establish the Annual Division Symposium topic.
2. Chair Symposium and Short Course Organization Committee.
3. Select Abstract reviewers for Engineering Geology and Environmental Geology Sessions.
4. Serve on Joint Technical Program Committee for Geological Society of America.

Schedule of Events

Annual Meeting GSA of Year Elected: Presents proposals for Division Symposium and Short Course to Management Board. Determines next Symposium topic and Short Course.

December: Completes planning and organization of Division Symposium. Establishes Symposium Chair, if not Chair-Elect, prepares list of papers and speakers. Writes invitations to invited speakers. Send copy of preliminary Symposium to Management Board members for review. Submits formal Symposium proposal to Joint Technical Program Committee.

Winter: Select Abstract reviewers for Engineering and Environmental Geology Sessions. Invites reviewers and receives confirmation of willingness to act as reviewer, sends list of reviewers to GSA Headquarters. Continue to monitor activities of Symposium speakers and sends GSA Abstract form to each, selects reviewers for Symposium Abstracts. Chair-Elect acts as one (1) of the reviewers for all Division-related Abstracts. Inform Secretary of Division time/schedule desires for Annual Meet-

ing program.
Spring: Provide initial review of Symposium abstracts and forward to GSA Headquarters (April).

Summer: Review and return general Engineering Geology and Environmental Geology Abstracts (June). Attend Joint Technical Program Committee meeting in Boulder (July). Once program has been established, prepare "news release" for Newsletter Editor (August).

One Month Prior to Annual: Prepare preliminary report of Program Committee activities for Annual Management Board Meeting, send copy to Secretary. Include list of selected reviewers for the record.

Annual Meeting: Coordinate Symposium and Session programs during meeting. Present report of Program Committee to Management Board.

One Month after Annual Meeting: Prepare report of Annual Meeting Symposium and program activities and Committee planning for future Annual Meetings, send copy to Secretary and new Chair-Elect.

DUTIES OF THE SECRETARY

The Secretary of the Division is the record keeper and facilitator of the Management Board. General duties of the Secretary include:

1. Record minutes of Annual Management Board meeting at the end of the term of office. The new Secretary is an observer and assists the Secretary by reviewing the minutes.
2. Review the Annual Report prepared by the Past-Chair of the Division for the GSA Council for the year that the Secretary served.
3. Maintain the records of the Division. This should at least include the minutes of the three prior Annual Management Board meetings. Maintain all records pertaining to the current year of the Secretary's term.
4. Prepare the annual budget for the Division, based on financial figures provided by GSA Headquarters.
5. Establish the agenda for the Annual Management Board meeting with the Chair.

Schedule of Events

Annual Meeting GSA of Year Elected: Assist outgoing Secretary in taking minutes; review minutes prepared by outgoing Secretary; review annual report of Division; resume duties as Division Secretary upon adjournment of meeting.

December 15: Insure that Past-Secretary has submitted copy of reviewed minutes to entire Management Board. Insure that a copy of the Division Annual Report and final minutes of the past Management Board meeting have been submitted to GSA Headquarters by the Past Chair. Insure that all committee appointments have been made by Division Chair.

Winter: Assist, where necessary, in the planning for the next Annual meeting of the GSA. Establish with Chair space and schedule requirements for the Annual Management Board meeting and Division Luncheon.

Spring: Complete Annual meeting space/schedule requests and submit to GSA for Annual Meeting planning. Check with Chair of Nominating Committee, immediate Past-Chair, for nominations for Division Officers. Upon receiving nominations, obtain short biographical summaries of each candidate, prepare a single, camera ready sheet for GSA Headquarters to mail with ballots in summer (Note: obtaining biographical data may require time since Geologists are often in the field). Verify that Award and Burwell Committees have selected nominees and notify GSA Headquarters.

Two Months Prior to Annual GSA Meeting: Receive confirmation of Management Board Meeting schedule and location and of Division Luncheon, notify Chair of time, date, location for Chair's invitations to Division functions. Verify that Citationist for E. B. Burwell, Jr. Memorial Award winner has been identified and that citation is being prepared (send citationist copies of past citations as a guide). Verify that Burwell winner is preparing response (send copies of past citation and responses as guide).

One Month Prior to Annual Meeting: Verify with GSA Headquarters that financial statement, results of elections, and Division Necrology will be available at Annual Meeting. Prepare preliminary Agenda for Annual Management Board meeting with input from Board Members, send copy to Board members and committee chair, request response and changes. Request annual reports from all committee chair and invite them to attend Annual Management Board meeting. Distribute copy of previous Management Board meeting minutes to Board members for their information. Verify that Awards are being prepared by Headquarters and that they will be available at Division Luncheon. Complete final copy of Management Board meeting agenda, bring sufficient copies to meet needs.

Annual Meeting: Meet with GSA staff and collect Division election results, financial statement, necrology, and awards. Prepare new budget for Division in cooperation with GSA staff. Verify spaces and arrangements for Division functions, collect complimentary luncheon tickets for visitors. Take minutes of entire Annual Meeting of the Division Management Board. Obtain two (2) copies of E. G. Burwell, Jr., Memorial Award citation and response, transmit to GSA staff for publication.

One Month after GSA Annual Meeting: Prepare draft copies of Annual Meeting Management Board Meeting minutes in cooperation with new Secretary, distribute to Board members for review (allow maximum of two (2) weeks for corrections). Prepare final copy of minutes. Send minutes to Chair for transmittal to GSA Headquarters with Annual Report. Send copies to Management Board members for their information. Secretary's duties end with submittal of minutes and report. Transmit remaining records to new Secretary.

DUTIES OF MEMBER-AT-LARGE

The Member-At-Large of the Division is the representative of the general membership of the Division. Duties of the Member-At-Large include:

1. Represent membership at Management Board meeting and at working sessions.
2. Assist Chair-Elect in the definition of the Annual Meeting Symposium topic and Short Course.
3. Provide comments and suggestions to improve the Division.

Schedule of Events

Annual Meeting GSA of Year Elected: Attends Management Board Meeting, review activities of Division.

Winter: Review minutes of Management Board Meeting, review Symposium and Short Course Plans with Chair-Elect, assist Chair in selection of members for Committee assignments.

Summer: Act as reviewer of Abstracts in Engineering and Environmental Geology sessions.

DUTIES OF THE PAST-CHAIR

The Past-Chair of the Division chairs the Division's Nomination and Awards Committee and prepares the Annual Report of the Division for the year that they served as Chair. General duties of the Past-Chair include:

1. Prepare the Annual Report of the Division.
2. Select Award Committee members.
3. Solicit nominations for the Distinguished Practice Award and the Meritorious Service Award.
4. Solicit nominations for Division officers.
5. Notify Secretary of Division officer nominees.
6. Select Distinguished Practice and Meritorious Service Awardees.
7. Notify GSA Headquarters and Division Chair to have awards prepared.

Schedule of Events

Annual Meeting of GSA: Chair Management Board meeting until installation of new officers (old business).

December 15: Submit Annual Report of Division to Secretary and the GSA Headquarters. Select Award Committee members from Division members to obtain a geographic distribution and notify Chair of the members of the Awards Committee. Solicit nominations for the Distinguished Practice and Meritorious Service Awards and for officers of the Division.

June 1: Submit Nominations Committee report to Secretary for preparation of biographical sketches and printing of ballots.

July 1: Submit names of awardees to Chair for Management Board approval.

August 1: Notify GSA Headquarters and Division Chair to have awards prepared. Division Chair to write to awardees informing them of selection and inviting them to attend Annual Division Luncheon.

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The Geological Society of America
3300 Penrose Place • P.O. Box 9140 • Boulder, Colorado 80301

Ballot

Engineering Geology Division
Management Board
October 1995

The slate of officers of the Division, presented by the Nominating Committee and approved by the Management Board, is submitted herewith. Please vote by checking the appropriate box or by writing in the name of your nominee in the space provided. Biographical data for the nominees are featured in this newsletter issue on page 6.

Your ballot must be returned no later than November 1, 1995 and it must be signed in the space on the reverse side in order to be valid. Fold the ballot sheet on the dashed lines; make sure the mailing is showing, staple it, and affix first class postage. Please return your ballot to: The Geological Society of America, 3300 Penrose Place, P.O. Box 9140, Boulder, Colorado 80301.

The election results will be announced at the Division business meeting at the GSA in New Orleans.

CHAIRMAN:

J. Rick Giardino ☐

_____ ☐
Write-in

CHAIRMAN-ELECT:

Helen L. DeLano ☐

_____ ☐
Write-in

SECRETARY:

Vince Cronin ☐

_____ ☐
Write-in

MEMBER-AT-LARGE:

Scott Burns ☐

_____ ☐
Write-in

I am in favor of the name change of the Division from Engineering Geology to Environmental and Engineering Division ☐

I am opposed to the name change of the Division from Engineering Geology to Environmental and Engineering Division ☐

For a legal vote, this ballot must bear the signature of the voter

Signature _____

Address _____

_____

Date _____

Place Stamp Here

Geological Society of America
Post Office Box 9140
Boulder, CO 80301 U.S.A.