

The Engineering Geologist



THE
GEOLOGICAL SOCIETY
OF AMERICA

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

Volume 24, Number 1

January 1989

MESSAGE FROM THE CHAIRMAN

Dear Colleagues:

Having just spent my day making appointments to EGD committees and tending to EGD correspondence, I again felt the frustration of wondering if there were not more members out there who would be willing to help out with division activities. The division has plenty of opportunities ranging from small to large commitments of your time. All a division chairman has to know is that you are interested, and odds are a slot will be found for you. In addition to these opportunities, we also could benefit from a little name dropping by you. For example, do you have a colleague or friend who has had a distinguished career in engineering geology? If you do not propose his name to the awards committee, someone else will get the Distinguished Practice Award. In this letter, I will review some of the opportunities and encourage all of you to contribute at least a little something to your division.

The easiest way to contribute is to submit a nomination for one of our awards. Just send the division or appropriate committee chairman the name and a brief written description and you may have just nominated the eventual winner. Our highest award, the Burwell Award, is made to an author or authors who have published a paper which materially advances knowledge concerning principles or practice of engineering geology or in soil or rock mechanics where the role of geology is emphasized. Our distinguished practice award is given to an individual who has contributed to engineering geology from a career perspective. Our meritorious service award is for service to the division. And finally, a new division honor is the EGD/AEG Richard H. Jahns distinguished lecturer. This involves an honorarium and is made to an individual who will serve as an ambassador for engineering geology, by lecturing at colleges and universities.

If you would like to do more, we can put you on one of the committees that reviews nominations. Just tell the chairman that you are willing to serve. Appointments typically are made soon after the annual business meeting in the fall.

Another and different opportunity is to serve as a representative to other professional groups. We always have terms expiring and are looking to fill these positions with new people. These representatives and their terms are listed in the newsletter. Again just tell the chairman you are interested.

Perhaps the most important contribution you can make is to our technical programs and publications. After all, that is the primary reason we exist. Each year at our business meeting, we start the planning process for symposia and field trips for two years away. Thus, in Denver, the board discussed what to do in Dallas (1990) and San Diego (1991). If you would like to make an impact, organize a timely symposium or lead an exciting field trip. Alternatively, if you are doing something professionally that you would like to see more people doing, volunteer to teach a short course. Finally, if you are looking for an outlet to publish, GSA and the division can streamline the logistics for you. We have two series, Reviews and Case Histories in Engineering Geology, both of which have proud traditions of excellence.

Thus, your opportunities are unlimited. To paraphrase a democrat who did get elected President, "Ask not what your division can do for you, but what you can do for your division." If you do ask, both the division and you will be the better for it.

With best regards,

Thomas L. Hoizer
Chairman



GEOLOGICAL SOCIETY OF AMERICA
1988 Annual Report
Engineering Geology Division

COMMITTEE CHAIRMEN

1. Status of the Division:

- (a) Finances: the Division fund balance as of 30 September 1987 is \$12,421.05.
- (b) Membership: the Division has 1,052 members.
- (c) Newsletter: Appointment as Newsletter Editor was made to:
- Mr. Robert J. Larson
Geotechnical Laboratory
USAE Waterways Experiment Station
Vicksburg, Mississippi 39181-0631
- (d) Publications: Division publications as follows are in progress:
1. Newsletter of the Engineering Geology Division.
 2. Reviews in Engineering Geology Series.
 3. DNAG Volume on Engineering Geology.
 4. Centennial Volume: Neotectonics in Earthquake Evaluation.
- (e) 1988-1989 Division Officers:
- Chairman: Thomas L. Holzer
Chairman-elect: Jeffrey R. Keaton
Secretary: Perry H. Rahn
Management Board Representative: Charles W. Welby
Past-Chairman: Ellis L. Krinitzsky

2. 1988 Division Awards:

- (a) the Burwell Award:
- To G. H. Eisbacher and John J. Clague for their paper titled "Destructive Mass Movements in High Mountains."
- (b) the Distinguished Practice Award was presented to Earl Brabb.
- (c) the Meritorious Service Award was given to Richard E. Gray.

3. 1988 Annual Meetings Symposium:

Hazard Reduction in the 21st Century, convened by Thomas L. Holzer and F. Beath Leighton.
Speakers: Dallas Peck, Clarence Allen, Robert Decker, Robert Schuster, David Varnes, Thomas Holzer, Richard Gray, Orrin Pilkey, Victor Baker, and C. Allin Cornell.

4. New Business:

The principal accomplishment by the Engineering Geology Division this year was the establishment of a Distinguished Lector in Engineering Geology. This Lectureship was established jointly with the Association of Engineering Geologists so that the honor truly represents the practicing engineering geologists in America.

James E. Slosson was selected to be our first Distinguished Lecturer.

Respectfully submitted,

Ellis L. Krinitzsky
Ellis L. Krinitzsky
1987-1988 Chairman, Engineering Geology
Division, Geological Society of America



COMMITTEE MEMBERSHIP

E. B. BURWELL COMMITTEE

Robert W. Fleming, Chairman

Allen Agnew
William E. Bonini
Elise G. Newton
John Rockaway

R. H. JAHNS COMMITTEE

John W. Williams, Chairman

Bruce R. Clark
Christopher Mathewson
Barry Voight

Nominating

Ellis L. Krinitzsky
U.S. Army Corps of Engineers
Waterways Experiment Station
P.O. Box 631
Vicksburg, Mississippi 39181-0631
(601) 636-3111

Publications

Terry R. West
Department of Geosciences
Purdue University
West Lafayette, Indiana 47907
(317) 494-3296

DNAG Volume Editor

George A. Kiersch
4750 North Camino Luz
Tucson, Arizona 85718
(602) 299-3776

Distinguished Practice
and Meritorious Service
Awards, Chairman

Ellis L. Krinitzsky
U.S. Army Corps of Engineers
Waterways Experiment Station
P.O. Box 631
Vicksburg, Mississippi 39181-0631
(601) 636-3111

E.B. Burwell Award
Panel, Chairman

Robert W. Fleming
Geologic Division
U.S. Geological Survey
Box 25046, DFC MS 966
Denver, Colorado 80225
(303) 236-1588

Program Committee and
JTCP Representative

Jeffrey R. Keaton
Sergeant, Hauskins, and Beckwith
4030 South 500 West, Suite 90
Salt Lake City, Utah 84101
(801) 266-0720

Council Representative

Richard W. Hutchinson
Golden Gate Park Estates
121 Bear Drive
Golden, Colorado 80403

U.S. National Committee
on Tunneling Technology

Richard E. Gray
8 Black Walnut Dr, N.W.
William Penn Estates
Rural Delivery 3 (RD)
Greensburg, Pennsylvania 15601
(412) 668-2441
1 July 1986 - 30 June 1989

Lloyd R. Underwood
15682 Leavenworth Street
Omaha, Nebraska 68118
(402) 333-4809
1 July 1989 - 30 June 1992

U.S. National Committee
on Rock Mechanics

Richard Galster exp. 30 June 1989
18233 - 13th Avenue, N.W.
Seattle, Washington 98177
(206) 542-2596

ASCE-GSA-AEG Joint Committee
on Engineering Geology

Robert T. Pack (1988-1991)
Thurber Consultants Ltd.
210-4775 Viewmont Avenue
Victoria, BC V8Z 6T8
CANADA
(604) 727-2201

U.S. National Committee
for IAGG

Robert W. Fleming
Geologic Division
U.S. Geological Survey
Box 25046, DFC MS 966
Denver, Colorado 80225
(303) 236-1588

**Engineering Geology Division
Geological Society of America
1988-1989 Officers**

Chairman	Thomas L. Holzer U.S. Geological Survey, MS 977 345 Middlefield Road Menlo Park, CA 94025 (415) 329-5613
Chairman Elect	Jeffrey R. Keaton Sergent, Hauskins & Beckwith 4030 South 500 West, Suite 90 Salt Lake City, UT 84123 (801) 266-0720
Secretary	Perry H. Rahn Dept. Geology & Geological Engineering South Dakota School of Mines Rapid City, SD 57701 (605) 394-2464
Management Board Representative	Charles W. Welby Dept. Earth & Atmospheric Science Box 8208 North Carolina State Univ. Raleigh, NC 27695 (919) 737-7242
Past Chairman	Ellis L. Krinitzsky U.S. Army Corps of Engineers Waterways Experiment Station, GL Post Office Box 631 Vicksburg, MS 39181-0631 (601) 634-3329
Newsletter Editor	Robert J. Larson U.S. Army Corps of Engineers Waterways Experiment Station, GL Post Office Box 631 Vicksburg, MS 39181-0631 (601) 634-3201



Richard H. Jahns Distinguished Lectureship

Following are the by-laws adopted by the Management Board in 1988 for establishment of the Richard H. Jahns Distinguished Lectureship:

Richard H. Jahns Distinguished Lecturer. Appointment of the Distinguished Lecturer will be considered annually in accordance with the bylaws of the Division. The appointment will be made to an individual who through research or practice has contributed to the advancement of engineering geology.

- a. Selection Committee. The nominee for the lectureship will be selected by a committee appointed by the Chairman of the Engineering Geology Division and President of the Association of Engineering Geologists. The committee will consist of four members, each with a term of two years. Terms will begin December 15. Two members with staggered terms will be appointed by each organization. Chairmanship will rotate annually between members representing each organization, with the senior member from either organization serving as chairman. EGD will chair the committee on even-numbered years.

- b. Frequency. The appointment generally will be made annually, but in any particular year may be withheld if no recipient is decided upon. The appointment will be announced at the annual meeting of each organization.
- c. Qualifications. The appointment is based on either outstanding research in engineering geology or the relevance of geology to engineered work(s). The nominee should be an excellent public speaker. It is desirable but not required that the nominee be a member of either or preferably both GSA/EGD and AEG.
- d. Selection Procedure. Appointment of the lecturer will be made in accordance with the following procedures:
- (1) The Secretary of EGD shall by December 15 mail to each member of the committee, and to any member of EGD or AEG requesting such material, the names and addresses of the committee members, a copy of these instructions, a list of past lecturers, and a nominating/ranking form with deadlines.
 - (2) Each member of the committee, and any other members of EGD or AEG who wish to nominate candidates for consideration, shall send to the committee chairman by February 28, one to three candidates with their general topic numbered in order of preference on the recommendation form.
 - (3) The committee chairman shall compile a list of all nominees and their topic (including the chairman's list) and shall mail by March 15 one copy of the list to each committee member and instructions that each committee member mail by April 1 to the committee chairman a copy of the ballot showing preferred ranking of all candidates, which they accept, under consideration (best is number 1).
 - (4) The committee chairman shall total the numbers given to each candidate and prepare a final list of three candidates with the lowest scores. The committee chairman should discuss this final list with the committee and decide upon a nominee. The committee chairman will then forward the name of the nominee as well as the second- and third-place candidates with ranking numbers, no later than May 1, to the EGD Chairman and AEG President.

- (5) The EGD Chairman and AEG President will then confer and contact the candidate for candidate's availability to serve as lecturer.

- e. Honorarium. The lecturer will be paid an honorarium of \$1,000 to be paid jointly by AEG and EGD.
- f. Expenses. Travel expenses incurred by the lecturer will be shared equally by EGD and AEG.

Host institutions should be encouraged to pay *per diem expenses* incurred during visit.

The distinguished lecture series was established in 1988 to increase awareness of students about careers in engineering geology. The lecturer should be prepared to lecture on a topic in engineering geology that will be exciting to an undergraduate audience and should be a strong public speaker. The appointment is based on either outstanding research in engineering geology or the relevance of geology to engineered works. Nominations should be sent by February 28 to:

Professor John W. Williams
Department of Geology
San Jose State University
San Jose, CA 95192



Geological Society of America - Association of
Engineering Geologists Richard H. Jahns
Distinguished Lecturer for 1988-1989

Awarded to **JAMES E. SLOSSON**

The recipient of the Richard H. Jahns Distinguished Lecturer honor for 1988-1989 was **James E. Slosson**.

James E. Slosson received his Ph.D. in Geology at the University of Southern California in 1958 after receiving his M.S. degree in 1950 and his B.S. in 1949 from the University of Southern California. He is a registered geologist in California, Arizona, Idaho, Delaware, Georgia, Oregon, and North Carolina as well as a certified engineering geologist and registered geophysicist in California. He was a professor of geology for over thirty-five years and has been a lecturer and visiting professor at many colleges and universities including Harvard, University of Southern California, UCLA and Caltech. He served as State Geologist for California and Chief of the California Division of Mines and Geology in the mid-1970's. He has served on the California Seismic Safety Commission and the Board of Registration for Geologists and Geophysicists as well as many other state and local governmental advisory boards

dealing with all phases of geology. He is currently a member of the National Research Council Committee on Ground Failure Hazards and FEMA/Colorado Department of Public Safety Advisors Committee for Landslide Hazard Mitigation. He serves as a coordinator for the ASCE/OES Disaster Preparedness Committee. He is presently Chief Engineering Geologist for his own consulting firm involved in forensic geology, data interpretation, hazard mitigation and prevention, soil erosion abatement, hydrogeology, seismic studies, and engineering geology. He holds memberships in some fifteen professional organizations including AAPG, AIPG, ASCE, AEG, ASFP, EERI, and GSA. He has authored over ninety papers and articles, chiefly on the topic of natural/geologic hazards and the consequences.

JAMES E. SLOSSON
EGD/AEG 1989 RICHARD H. JAHNS DISTINGUISHED
LECTURER

Would your university or college like to expose its students to the challenge and excitement of a career in engineering geology? The Association of Engineering Geologists and the division are co-sponsoring a lecture series by an engineering geologist to share this excitement with your students. We pay the travel expenses. All we ask is that you host him while he is on your campus. We are particularly interested in invitations from institutions that do not have programs in applied or engineering geology. Student awareness in an engineering geology career may also be facilitated by conducting joint meetings with engineering societies of practicing professionals.

The lecturer this year is James E. Slosson, who is the chief engineering geologist for James E. Slosson and Associates, a consulting firm in southern California that specializes in forensic geology, hazard mitigation, and hydrogeology. Dr. Slosson has had an illustrious career in teaching, government service, and private consulting. Titles for lectures on which he is prepared to speak include:

"Challenges and opportunities in engineering geology."

"Major contributions of engineering geology to multidisciplinary decisions."

If you are interested in a visit, please contact Dr. Slosson at:

Slosson and Associates
14046 Oxnard Street
Van Nuys, CA 91401
(818) 787-4555.

Preliminary plans are to visit the southeastern United States during the third week of April. Dr. Slosson is especially interested in invitations from that area.

Engineering Geology Division
Meritorious Service Award for 1988

Presented to

RICHARD E. GRAY

This award was given to Richard E. Gray as an expression of the Engineering Geology Division's appreciation for many years of unstinting service to the Geological Society of American and to the Profession. His contributions over three decades have been numerous, generous, and valuable, and his counsel was always given willingly. The Management Board was unanimous in recognizing his contributions.



Engineering Geology Division
Distinguished Practice Award for 1988
Presented to

EARL E. BRABB

Earl E. Brabb was presented the Distinguished Practice Award for his accomplishments during 29 years with the U.S. Geological Survey. After applying his initial training in biostratigraphy to the mapping of 7,000 square miles of a geologically complex area in eastern Alaska, his interests slowly changed to the study and mitigation of geologic hazards. He was the founder and first coordinator of the USGS Regional Landslide Research Group which among its many innovative products includes: a regional, real-time, landslide warning system; new methods for measuring the potential for debris-flow initiation; and maps of slope stability under seismic loading conditions. He has pioneered the application of computers to map making and terrain analysis of slope stability. He was one of the first geologists to recognize the usefulness of digital cartography and Geographic Information Systems for landslide analyses, and now regularly consults both nationally and internationally to many organizations interested in applying this technology. His efforts on a national scale have increased the interests of many state and regional governments in addressing and reducing the risk from slope instabilities.

Engineering Geology Division
Burwell Award for 1988
Presented to

**G. H. EISBACHER
J. J. CLAGUE**

The winners for the 1988 Burwell Award are:

Eisbacher, G. H. and J. J. Clague for their 1984 paper titled Destructive mass movements in high mountains: hazard and management: Geological Survey of Canada, Paper 84-16, 230 p.

Their paper provides a clear description of mass-wasting processes and gives explanations of options for mitigation of mass-wasting hazards in urbanized mountainous terrains. The description of acceptable and unacceptable risk is a very rational statement about risk from destructive mass movements. The appendix, which contains 137 historic case studies of destructive mass movements in the European Alps, is not only fascinating reading, but documents the techniques for hazards appraisal and the application of mitigation techniques. This appendix is an exceptionally valuable collection of case histories, and together with the description of hazards in mountainous areas of North America, gives renewed importance to techniques of management for this undeveloped portion of our continent.



BURWELL AWARD NOMINATIONS

Have you read an outstanding paper in engineering geology recently? The E. B. Burwell, Jr., Memorial Award is made annually to the author or authors of a published paper of distinction which advances knowledge concerning principles or practice of engineering geology or of related field of applied soil or rock mechanics where the role of geology is emphasized. The paper must deal with engineering geology or a closely related field and the paper must have been published not more than five years prior to its selection. Nominations should be sent promptly to :

Robert W. Fleming
Geologic Division
U.S. Geological Survey
Box 25046, DFC 966
Lakewood, CO 80225

IAEG NEWS -

IEAG (International Association of Engineering Geology) held its first formal meeting in the People's Republic of China in May 1987 - the Beijing Symposium on the Engineering Geological Environment in Mountainous Areas.

The Association's first Richard Wolters prize was awarded to Professor Kiril Anguelov of Bulgaria in September 1988, during the Association's Athens Symposium on Engineering Geology as Related to the Study, Preservation and Protection of Ancient Works, Monuments, and Historical Sites.

Shortly after the Athens symposium, the IAEG-affiliated Symposium on Engineering Geology of the Shelf and Continental Slope of Seas and Oceans was held in Tbilisi, Georgian SSR.

Planned regional symposia in 1989 with IAEG affiliation are:

Ivory Coast, May 1989 - Residual Soils from our Engineering Geological Viewpoint.

Malaysia, June 1989 - Engineering Geology in Tropical Terraines.

Edinburgh, Scotland, September 1989 - Quaternary Engineering Geology.

The General Assembly at the IAEG will meet during the 28th International Geological Congress, July 1989, in Washington, D.C.

The next Congress of the IAEG will be held in August 1990 in Amsterdam.



1988-1989 Awards Committee,
Engineering Geology Division

The 1988-1989 Awards Committee has been constituted as follows:

Ellis L. Krinitzsky, Chairman
David B. Stemmons
John W. Williams

The Committee will consider candidates for the Meritorious Service Award and the Distinguished Practice Award.

Previous recipients of these Awards since 1982 are as follows:

Distinguished Practice Award

1982	Nell B. Steuer
1983	Thomas W. Fluhr
1984	Edwin B. Eckel
1985	Shaller S. Philbrick
1986	George A. Kiersch
1987	David J. Varnes
1988	Earl E. Brabb

Meritorious Service Award

1982	Alice S. Allen
1985	Robert H. Fickles
1986	Ellis L. Krinitzsky
1988	Richard E. Gray

The Distinguished Practice Award is made to an individual who has demonstrated excellence in engineering geology by professional practice. Nominations may be sent to any member on the committee.



INVITATION TO NOMINATE CANDIDATE FOR CLOOS MEDAL

The U.S. Committee for the International Association of Engineering Geology invites nominations of U.S. engineering geologists for the Hans Cloos Medal of the International Association of Engineering Geology. This award is in honor of Hans Cloos, 1885-1951, a pioneer in the use of detailed measurements as a means of understanding geological structures. The award is given to engineering geologists who have gained an international reputation for their eminent contribution to the development and advancement of engineering geology. Previous recipients have been Guido Zaruba (Czechoslovakia), Leon Calembert (Belgium), Marcel Arnould (France), Richard Wolters (Federal Republic of Germany), Leopold Muller (Federal Republic of Germany), and E. M. Sergeev (Soviet Union). Nominations should include a description of the scientific career of the nominee emphasizing contributions to the field of engineering geology, and a list of relevant publications in bibliographic style. To meet the timetable for awarding the prize, nominations should be sent no later than August 18, 1989, to Mr. M. G. Bonilla, (Chairman of Subcommittee on Awards, U.S. Committee for International Association of Engineering Geology), U.S. Geological Survey MS 977, 345 Middlefield Rd., Menlo Park, CA 94025.

INVITATION TO NOMINATE CANDIDATE FOR WOLTERS PRIZE

PAPERS SOLICITED FOR 1989 DIVISION SYMPOSIUM SITE CHARACTERIZATION FOR NON-DARCIAN GROUND-WATER FLOW CONDITIONS

The U.S. Committee for the International Association of Engineering Geology invites nominations of U.S. engineering geologists for the Richard Wolters Prize of the International Association of Engineering Geology. This medal is awarded every two years to an engineering geologist who has published a significant work or works in the field of engineering geology. The recipient must be less than 40 years old. Nominations should include a summary of the significance of publications of the nominee that relate to engineering geology, and a listing of the publications in bibliographic style. To meet the timetable for awarding the prize, nominations should be sent by August 18, 1989, to Mr. M. G. Bonilla, (Chairman of Subcommittee on Awards, U.S. Committee for International Association of Engineering Geology), U.S. Geological Survey MS 977, 345 Middlefield Rd., Menlo Park, CA 94025.

Jeffrey R. Keaton and John F. Harsh, on behalf of the Engineering Geology and Hydrogeology Divisions, are co-convening a full-day symposium for the 1989 annual meeting in St. Louis. The symposium addresses the problem of characterizing ground-water flow at sites where ground-water behavior is non-Darcian. The symposium will have both invited and volunteered papers. If you are interested in contributing a paper, call Jeff at (801) 266-0720.

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## MEMBERSHIP IN THE INTERNATIONAL ASSOCIATION OF ENGINEERING GEOLOGY

The International Association of Engineering Geology invites you to become a member. The Association publishes a semiannual journal--"Bulletin of the International Association of Engineering Geology"--and sponsors field excursions and symposia on timely topics worldwide. For example, in 1989 the IAEG will co-sponsor a conference on Quaternary Engineering Geology in Edinburgh, Scotland, on 10-14 September. Also in 1989, the U.S. Group of IAEG will sponsor several sessions at the International Geological Congress in Washington, D.C. The 6th International Congress of IAEG will be held in Amsterdam, The Netherlands, on August 6-10, 1990. The recent addition of an editorial board to the Bulletin qualifies it as a "refereed journal."

Annual dues are \$15 US, payable to the U.S. Committee for IAEG. If interested, please complete the membership form below.

Last name (Block letters): \_\_\_\_\_

First name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(Bulletin will be sent to address specified above)

The following are optional:

Date and place of birth: \_\_\_\_\_

Title: \_\_\_\_\_

Functions: \_\_\_\_\_

applies for membership in the IAEG as an individual member . . . . . ☐

as an associate member . . . . . ☐

Payment by check to: R. W. Fleming  
U.S. Geological Survey  
Box 25046, M.S. 966  
Denver, CO 80225

Please make check payable to:  
U.S. Committee for IAEG

\_\_\_\_\_  
Signature of the applicant

Date: \_\_\_\_\_

## ANNUAL MEMBERSHIP SUBSCRIPTION

|                                            |           |
|--------------------------------------------|-----------|
| Individual members . . . . .               | 15 U.S.\$ |
| Associate members (Institutions) . . . . . | 60 U.S.\$ |

THE GEOLOGICAL SOCIETY OF AMERICA



1989  
ANNUAL MEETING

St. Louis, Missouri  
November 6-November 9

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Abstracts Due  
July 19

Program, Housing  
and Registration Information  
August 1

Preregistration Due  
October 6

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Associated Societies Meeting with GSA  
Association for Women Geoscientists • Geoscience Information Society  
Sigma Gamma Epsilon • Cushman Foundation  
Mineralogical Society of America • Society of Economic Geologists  
Geochemical Society • National Association of Geology Teachers  
Paleontological Society

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For Information  
GSA Meeting Department  
P.O. Box 9140  
Boulder, CO 80301  
(303) 447-2020

CHANGES IN THE JOURNAL OF ENGINEERING  
GEOLOGY  
(ELSEVIER, AMSTERDAM)

The current issue of **ENGINEERING GEOLOGY**, Volume 26, No. 1, announces several changes in editorial policy. Following is a revised scope for the journal, and a letter from the editors that includes an invitation for contributions to upcoming special issues.

**Aims and scope of the journal**

The journal is an international medium for the publication of original studies, case histories, and comprehensive reviews in the field of Engineering Geology. Included are all geological studies that can be relevant to engineering, environmental concerns and safety.

The Editors will consider papers on such subjects as airphoto interpretation for land usage, paleo-evidence for recurrence in geological processes (earthquakes, floods, river diversions, land slippage, etc.) assessment of geological factors on river behavior, rehabilitation of ground-water supplies, field assessment of earthquake-generating faults, criteria for ground storage of hazardous wastes, techniques of reconnaissance, geological mapping for engineering, etc.

**Letter from the Editors**

Perhaps some of you have noticed a change of scope on the inside cover for this issue of *Engineering Geology*. We felt a revised scope would be useful to more clearly define the subjects and aims to be covered by this publication.

*Engineering Geology* will also feature a new section called "Opinion." Opinion will present notes, discussions, criticisms and, generally, ideas in the field of Engineering Geology. Submissions may be in any form and they need not be documented.

The Editors would also like to see more papers written for "optimum readability" (see *Discovery and Innovation in Geoscience*, GSA Bulletin, February 1988, Vol. 100, pp. 157-159). The gist of such papers should be gathered in the first paragraph. The overall content should be that of normal scientific papers; an abstract and references are required; statements and illustrations should be few and simple. The aim of such a style is to convey ideas as clearly and briefly as possible.

Finally, contributions are invited for upcoming special issues of *Engineering Geology* on the subjects of: (1) Innovations In Exploratory Drilling and (2) Engineering Geology in the Rehabilitation of Dams.

W. R. Judd  
E.L. Krinitzky

**PROCEEDINGS NEWS**

The Second International Conference on Case Histories in Geotechnical Engineering was held in St. Louis, Missouri, June 1-5, 1988. Over two hundred participants from 25 countries had joined this Conference.

Proceedings of this Conference have been issued in three volumes. The proceedings contain 7 State-of-the-Art papers, 6 General Reports and 240 contributed papers. These represent State-of-the-Art on the following themes of the Conference:

1. Case Histories of Geotechnical and Hydrological Management of Solid, Hazardous, and Radioactive Wastes
2. Case Histories in Geological Engineering and Rock Mechanics
3. Case Histories of Dams, Embankments, and Slopes
4. Case Histories of Geotechnical Earthquake Engineering and Soil Dynamics
5. New Solutions to Traditional Geotechnical Problems (Case Histories)
6. Case Histories of Soil Structure Interaction

State-of-the-Art papers had been delivered by Bengt B. Broms (Singapore), G.W. Clough (USA), C.S. Desai (USA), W.D. Liam Finn (Canada), Kenji Ishihara (Japan), John Ramage (USA), and G.F. Sowers (USA).

The Conference was chaired by Shamsheer Prakash, Professor in Civil Engineering, University of Missouri-Rolla.

The 3 volume set of the Proceedings is available for US \$315.00 (surface mail) with \$50.00 air mail surcharge.

The Proceedings of the first Conference in Case Histories, 1984, are also available for \$220.00 (surface mail) with \$50.00 air mail surcharge.

*This is from "On Some Mental Effects of the Earthquake," published in 1906 when William James was treated to the great California quake. It is in "William James: Writings 1902-1910" (Library of America).*

I was thrown down on my face as it went *fortier*, shaking the room exactly as a terrier shakes a rat. Then everything that was on anything else slid off to the floor, over went bureau and chiffonier with a crash, as the *fortissimo* was reached, plaster cracked, an awful roaring noise seemed to fill the outer air.... The thing was over, as I understand the Lick Observatory to have declared, in forty-eight seconds.... In my case, sensation and emotion were so strong that little thought, and no reflection or volition, were possible in the short time consumed by the phenomenon. The emotion consisted wholly of glee and admiration; glee at the vividness which such an abstract idea or verbal term as "earthquake" could put on when translated into sensible reality and verified concretely; and admiration at the way in which the frail little wooden house could hold itself together in spite of such a shaking. I felt no trace whatever of fear; it was pure delight and welcome.



## BREVITY

*"The fraction of papers being read is declining. Authors who wish their work to be read, understood, and referenced would serve themselves well if they would present the results of their research in a clear, terse format. Such writing may require as much thoughtful effort as the scientific investigation itself.... The writing and polishing of drafts of papers submitted for publication is usually the most distasteful part of a scientific investigation. However, the need for brevity and clarity has never been more acute." (Brevity, J. Geophys. Res. 73, 4133, 1968)*

If you have any newsletter input of announcements, educational materials, news items, please send them to:

**Robert J. Larson**  
U.S. Army Corps of Engineers  
Waterways Experiment Station, GL  
Post Office Box 631  
Vickburg, MS 39181-0631  
(601) 634-3201



**THE  
GEOLOGICAL SOCIETY  
OF AMERICA**

3300 Penrose Place # P.O. Box 9140  
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