



MESSAGE FROM THE CHAIR

Robert H. Fakundiny

Proposed Endowment for Programs of the Engineering Geology Division

The Engineering Geology Division needs to expand its sources of revenue if it is to adequately serve the membership and our Nation's citizenry. Engineering geology is one of the subdisciplines of our profession that interface with society wherever geological problems emerge, such as natural-disaster remediation, water-resources conservation, waste cleanup and disposal, appropriate and proper construction of civil and military facilities and infrastructure, and environmentally sound extraction of minerals. The reconstruction of the Gulf Coast after Hurricane Katrina, as an example, will require the participation of every available engineering geologist; it will also emphasize the growing need for our services. Increasing the number of engineering geologists will require that increasing numbers of students elect this as their major. We therefore require additional financial resources than we currently have to attract students that might otherwise enter other fields. Some ways in which we collectively assist students is by giving them reduced dues, encouraging them to attend Geological Society of America meeting sessions that are sponsored by the Engineering Geology Division, promoting the Shlemon Scholarship and luncheons, inviting them to our annual Awards Luncheon, encouraging the founding of GSA student chapters at colleges and universities, and encouraging students to attend the Richard H. Jahns lecture when it comes their way; we also acknowledge good scholarship through the E. B. Burwell, Jr. Award. The EGD also will require increased financial resources to support our professional activities such as the Jahns Lecturer travel expenses, Division awardees' travel to the awards luncheon at GSA, and creation of awards plaques. We incur additional expenses through cooperative projects with the Association of Engineering Geologists, sponsorship of field trips and workshops, and a vigorous publications program. Therefore, I propose the establishment of an endowment fund to support students and our professional activities in an effort to address the Nation's growing need for engineering geologists. I estimate that we need about \$7,000 a year more than we currently receive from the GSA Foundation and take from our treasury. This endowment must essentially grow to about \$150,000 to provide that amount from the interest each year, assuming a 5-percent yield.

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Chair Message continued

One approach to creating the proposed endowment fund is to form an *ad hoc* committee of selected Division supporters and volunteers who would solicit donations from (1) companies that employ or contract with engineering geologists, (2) professional, corporate, and private groups that are willing contributors to scientific causes, and (3) philanthropic organizations that can be convinced to support our expanded program within the EGD. The Committee would sit long enough to get the fund well established. We may wish to name the fund at the suggestion of the largest contributor during the first year. All of these efforts would be coordinated with the GSA Foundation to ensure that we do not compromise their solicitation efforts. The endowment fund would greatly boost the aspects of our mission to study and respond to natural disasters, participate in the formulation of engineering geology practices that will be required by the new demands of homeland security, and encourage more geology students to enter the profession of engineering geology.

The Management Board will be discussing this proposal at the annual business meeting in Salt Lake City on October 16, 2005. The Board will also consider increasing our professional and student dues, which have not been raised in several years; the Division has the lowest dues of any of the GSA divisions. The way in which the Engineering Geology Division can best address the needs of the engineering geology profession in these times of strain on our Nation's resources and infrastructure is by adding these new revenue sources. Please give me or other members of the Management Board your perspectives on the endowment and dues increases before we consider them at the annual meeting in Salt Lake City next month. Thank you for your continued support of the EGD.

HIGGINS SELECTED AS 2006 RICHARD H. JAHNS LECTURER

Jerry D. Higgins, Ph.D., P.G. has been named the 2006 Jahns Distinguished Lecturer. The Association of Engineering Geologists and the Engineering Geology Division of the Geological Society of America (GSA) jointly established the Richard H. Jahns Distinguished Lectureship in 1988 to commemorate Jahns and to promote student awareness of engineering geology through a series of lectures offered at various locations around the country throughout the year. Richard H. Jahns (1915-1983) was an engineering geologist who had a diverse and distinguished career in academia, consulting, and government. Dr. Higgins has served on the Geology and Geological Engineering faculty at the Colorado School of Mines since

1986. He received a B.S. Geology degree from Missouri State University (1969) and M.S. Geology and Ph.D. Geological Engineering degrees (1975 and 1980) from the University of Missouri-Rolla. Prior to coming to CSM, Dr. Higgins served on the civil engineering faculty at Washington State University and as a geological engineer with a consulting engineering firm and with the City of Springfield, Missouri.

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2006 Jahns Lecturer continued

Dr. Higgins has taught many engineering geology courses and short courses. His major areas of research are slope stability, rockfall analysis and mitigation, debris flow mechanics, seismic hazard assessment, geotechnical design in loess, characterization of expansive bedrock, construction materials characterization, and engineering geologic mapping. He has completed over \$1.4 million in funded research from government and private industry. He was a contributing author to the Transportation Research Board (TRB) publication "Landslides: Investigation and Mitigation", coauthored the internationally known Colorado Rockfall Simulation Program (CRSP), authored testing standards for flexible fence rock-fall barriers, and has published numerous technical papers on engineering geology. Presently, he is part of a TRB task force preparing a book on rockfall science. He has given numerous invited presentations and workshops in the U.S. and Europe on slope instability, erosion, and geological hazards assessment, and has been retained as a consultant on numerous private and public projects involving landslide, rockfall, and debris flow problems.

An active member of the Association of Engineering Geologists since 1975, Dr. Higgins has served as chair of the Rocky Mountain Section, chair of the Academic and Student Affairs Committee, and has planned numerous technical symposia at national meetings. He is a member of the TRB Engineering Geology and Rockfall committees. He served five years as the geological engineering representative to the ABET, Inc. Engineering Accreditation Commission, and presently serves on the ABET Board of Directors. He is also active on the SME Education and Curricular Issues committee and serves as a trainer for geological engineering accreditation evaluators.

The 2006 Jahns lecture titles include: "Rockfall Analysis and Mitigation", "Engineering Geology of Expansive Soils and Bedrock", "Site Characterization for Slope Stability Assessment", and "Preparation for Careers in Engineering and Environmental Geology." Abstracts for these presentations are available by email from the author. Requests for scheduling lectures should be directed to Jerry Higgins at jhiggins@mines.edu.

GSA ANNUAL MEETING IS LAST CHANCE TO HEAR 2005 JAHNS LECTURER

Dr. Richard Iverson will present his 2005 Richard H. Jahns Lecture as part of Session T37: Debris-flow Processes, Stratigraphy, Geomorphology, and Societal Response. The presentation is entitled "**Dynamics of Debris Flow and Rock Avalanches**" and will be given on Monday, October 17, at 11:00 AM in the Salt Palace Convention Center, Room 251 D.

Richard (Dick) Iverson is a graduate of Iowa State University (BS, 1977) and Stanford University (MS, 1980; MS, 1981; PhD, 1984), where he was a student in several of Richard Jahns' classes and subsequently was a teaching assistant to Jahns in his graduate course in Engineering Geology. Since 1984, Iverson has worked at the U.S. Geological Survey's Cascades Volcano Observatory in Vancouver, Washington, where his current position is Senior Research Hydrologist.

2004-05 ENGINEERING GEOLOGY DIVISION MANAGEMENT BOARD E-MAIL CONTACTS

Chair Robert H. Fakundiny rfakundi@mail.nysed.gov; Chair-Elect Susan H. Cannon cannon@usgs.gov; Secretary Syed E. Hasan hasans@umkc.edu; Past Chair William C. Haneberg bill@haneberg.com; Member-at-Large Paul M. Santi psanti@mines.edu.

ENGINEERING GEOLOGY DIVISION OF THE GEOLOGICAL SOCIETY OF AMERICA

BULLETIN RELEASED ON NEW MEXICO'S ICE AGES

The New Mexico Museum of Natural History is pleased to announce the release of the latest volume in our bulletin series: **New Mexico's Ice Ages (Bulletin 28)**, edited by Spencer G. Lucas, Gary S. Morgan and Kate E. Zeigler. The volume is available for \$30 through the museum's website: <http://museums.state.nm.us/nmmnh/nmmnh.html>.

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1. **Dedication to John Hawley** David W. Love
2. **Five million years of landscape evolution in New Mexico: An overview based on two centuries of geomorphic conceptual-model development** John W. Hawley
3. **Quaternary volcanism in New Mexico**.... Nelia W. Dunbar
4. **Ice Age lakes in New Mexico** Bruce D. Allen
5. **River responses to Ice Age (Quaternary) climates in New Mexico** Frank J. Pazzaglia
6. **Late Cenozoic drainage development in the southeastern basin and range of New Mexico, southeasternmost Arizona, and western Texas** Sean D. Connell, John W. Hawley and David W. Love
7. **Late Neogene drainage developments on the southeastern Colorado Plateau, New Mexico** David W. Love and Sean Connell
8. **Ice Age vegetation and flora of New Mexico** Stephen A. Hall
9. **Pleistocene vertebrate faunas in New Mexico from alluvial, fluvial and lacustrine deposits** Gary S. Morgan and Spencer G. Lucas
10. **Caves as unique resources for Pleistocene vertebrate faunas** Arthur H. Harris
11. **Ice Age proboscideans of New Mexico** Spencer G. Lucas and Gary S. Morgan
12. **Ice Age peopling of New Mexico** Vance T. Holliday
13. **Once and future climates in New Mexico and North America; the icehouse and the hothouse: "anti-analogues"?** David S. Gutzler

ENGINEERING GEOLOGY DIVISION EVENTS AT GSA ANNUAL MEETING

In addition to an outstanding line up of sponsored technical session, EGD also has a Management Board Meeting scheduled for Sunday, Oct. 16, at 1:00 PM in Salon III at the Hilton Hotel. Division members are more than welcome to attend.

Please remember to attend the annual Awards Luncheon from noon until 3:00 PM on Monday, Oct. 17 in the Hilton's Topaz Room. The Luncheon is a ticketed event, so be sure to include your purchase in your registration. However, the awards ceremony is open to all members after the luncheon. Presentations will be made for Distinguished Practice Award, Meritorious Service Award, and E.G. Burwell Jr. Award. Please come by and extend your congratulations to the awardees.

2005 ROY J. SHLEMON SCHOLARSHIP AWARDEES

Once again, the Engineering Geology Division is able to award \$1000 or \$500 awards to students pursuing Masters and Doctoral degrees focused on environmental or engineering geology topics. The awards are drawn from a scholarship fund established by the generosity of EGD member Roy J. Shlemon. Details on these scholarship awards are found on the EGD website at <http://rock.geosociety.org/egd/index.html>; on the website, click on "Scholarships" in the sidebar to read about the awards and to access a downloadable application form.

Master's Level

First Place: **Nathan Smith**, Portland State University

"A Dislocation Model and a Slab-Buckling Model of the Northern Cascadia Mega-Thrust Compared With Observed GPS Displacements in the Pacific Northwest"

Second Place: **William Walker**, Baylor University

"Structural and Geomorphic Analysis of the Criner Hills Fault – South-Central Oklahoma"

Doctorate Level

First Place: **Matthew Hoffman**, Portland State University

"Development of Rock Glacier Inventory of Colorado for Hazards Identification and Water Supply Accounting"

Second Place: **Ana Cristina Londono**, University of Cincinnati

"Landscape Evolution on Hyper-Arid Environments Derived from the Study of Pre-Columbian Agricultural Terraces"

GSA ENGINEERING GEOLOGY DIVISION 2005 ELECTION OF OFFICERS

TO ALL VOTING MEMBERS OF GSA'S ENGINEERING GEOLOGY DIVISION:

Following are the biographies and ballot for the election of 2005-06 officers for the GSA Engineering Geology Division. Please vote immediately and **mail your ballot to arrive at GSA no later than October 12, 2005, or (in the U.S.) fax it to (303) 357-1074, Attn: Division Ballot by the same date.** If you prefer, vote online at <http://rock.geosociety.org/balloting/egd.asp> by **October 12, 2005.** Online, you can access the ballot by entering either (but not both) your GSA member number or your e-mail address (if it is in your GSA records). If you need assistance with your GSA member number, please contact GSA Services at gsaservice@geosociety.org or (303) 357-1000 (option 3) or tollfree in the U.S. at (888) 443-4472. Biographical data for this year's candidates are on the following page:

CHAIR: **Susan H. Cannon** is a research geologist with the Landslide Hazards Program of the U.S. Geological Survey. She received her BA in Geology from Humboldt State University, and MS degrees in Geology and Civil Engineering and her PhD from the University of Colorado, Boulder. Susan has worked in the field of engineering geology for the Colorado Geological Survey and the USGS since 1981. She has served EGD as Chair-Elect (04-05), JTPC rep (04, 05), Secretary (03-04), and management board Member-at-Large (02-03); she also has served as a member of the E.B. Burwell Jr. Award committee (00) and as chair of the panel (01). In keeping with her research interests, Susan convened a session at the 2002 GSA Annual Meeting on the Geomorphic Impacts of Wildfire.

CHAIR-ELECT: **Syed E. Hasan** is a Professor in the Department of Geosciences at the University of Missouri – Kansas City, where his research is focused on waste management and medical geology. Syed earned his BS in Geology from Patna University, his MS in Applied Geology from Roorkee University, and his PhD in Geology from Purdue University. He worked at the Geol Survey of India as a Geologist (65-68) and Senior Engineering Geologist (68-73) before serving as Visiting Asst Prof in the Dept of Geology at Michigan Technological Univ (78) and as Asst Prof in the College of Mining and Geological Engineering at the Univ of Arizona (78-79). He has been with the Dept of Geosciences at the Univ of Missouri – Kansas City since 1979, serving as Asst Prof (79-85), Assoc Prof (85-97), and Professor (98-present). He holds concurrent positions with the Univ of Missouri – Kansas City as Director of the Center for Applied Env'tl Research (96-present) and as Adjunct Prof with the Dept of Civil Engineering (98-present). Syed is a GSA Fellow (95) and has been a member since 1987. He is also affiliated with AGU, AEG, IAEG, and Phi Kappa Phi, and is a Life Fellow of the Geol Soc of India. He is a licensed geologist in Missouri. Syed has served GSA as a Campus Rep (88-present) and on the GSA North-Central Section management board (02-04). He has served EGD as management board Secretary (04-05), as Member-at-Large (03-04), and on the Burwell Award Committee (00-03). He served as theme advocate for the Environmental Justice session at the GSA Annl Mtg (95) and as Technical Program Chair and Co-Chair of the 2003 GSA North-Central Section meeting. In addition, he served the Kansas City-Omaha Section of the Association of Engineering Geologists as Chair (89-91) and as a member of the Advisory Board (02-03). Syed is the recipient of the US EPA Region VII Educator's Environmental Excellence Award (2000) and the Association of Engineering Geologists Claire P. Holdredge Award (98) for his textbook *Geology and Hazardous Waste Management* (Prentice Hall, 1996).

SECRETARY: **Paul M. Santi** has Bachelor's degrees in geology and physics from Duke University, a Master's degree in geology from Texas A&M University, and a PhD in geological engineering from the Colorado School of Mines. He has six years experience as a consulting geologist in California and Colorado, followed by six years as an assistant professor at the University of Missouri-Rolla and three as an associate professor at the Colorado School of Mines. While in academia, he has continued to consult on projects related to ground-water contamination, construction, and natural hazards. Paul has received several teaching and faculty excellence awards, as well as a Sloan New Faculty Fellow Award from the American Society for Engineering Education. From the Association of Engineering Geologists, he has received awards as Marliave Scholar and Douglas R. Piteau Outstanding Young Member. A software program he developed, funded by the National Science Foundation, titled BEST SiteSim, was a 2002 finalist for the Premier Educational Software Award, sponsored by John Wiley & Sons. He has coordinated technical sessions and led field trips for GSA, and in 2003 coordinated the first Pardee symposium sponsored by the Engineering Geology Division, entitled, "The Science of Lewis and Clark: Historical Observations and Modern Interpretations." He has been a GSA member since 1998. He has served EGD as management board Member-at-Large (04-05) and as JTPC rep (04, 05).

MEMBER-AT-LARGE: **Abdul Shakoor** is a professor of engineering geology at Kent State University which he joined in 1982. He received his MS and PhD degrees in engineering geology from Purdue University. He has been a member of GSA and AEG for more than 20 years. He has served EGD as a member of the Burwell Award Committee (01-04). He has also served as AEG Chair of the Allegheny-Ohio Section, as editor of AEG News (93-97), and as co-editor of *Environmental and Engineering Geoscience* (98-pres), a joint publication of AEG and GSA. Abdul is also affiliated with several other professional societies and has served them in various capacities. He is the recipient of Glenn W. Frank Outstanding Teaching Award (87, 93) from the Department of Geology at Kent State University, Outstanding Member Award (90) from Allegheny-Ohio Section of AEG, Outstanding Professor of the Year Award (96) from Pittsburgh Section of ASCE, Outstanding Alumnus Award (01) from Purdue University Department of Earth & Atmospheric Sciences, Floyd T. Johnston Service Award (04) from AEG, and Mentorship Excellence Award (05) from Graduate Student Senate of Kent State University.

Ballot for the Election of 2005-2006 Officers for the GSA Engineering Geology Division

Vote for no more than **one** candidate for each office by checking the appropriate box or by filling in the write-in space to vote for an individual not listed on this ballot. **Your ballot must be returned to GSA by October 12, 2005, must be signed in the space provided, and must include your GSA member number in order to be valid. Please return your ballot to the address below or fax it to (303) 357-1074 by October 12, 2005.** If you prefer, you may vote online instead at <http://rock.geosociety.org/balloting/egd.asp> by **October 12, 2005**. Election results will be announced at the EGD Management Board meeting at the GSA Annual Meeting in Salt Lake City and will be posted on the Division website at <http://rock.geosociety.org/egd/index.html>. Thank you for participating in your Engineering Geology Division election.

Chair:☐**Susan H. Cannon**☐

Write-In _____

Chair-Elect:☐**Syed E. Hasan**☐

Write-In _____

Secretary:☐**Paul M. Santi**☐

Write-In _____

Member-at-Large:☐**Abdul Shakoor**☐

Write-In _____

Your Name (printed) _____

Your Signature (required) _____

Your GSA Member Number* (required) _____

Please place your ballot in an envelope, affix first-class postage, and return it to:
Engineering Geology Division Ballot
Geological Society of America
PO Box 9140
Boulder, CO 80301-9140

*If you need assistance with your GSA member number, please contact GSA Services at <gsaservice@geosociety.org> or (303) 357-1000 (option 3) or toll free in the U.S. at (888) 443-4472.