The Hydrogeologist

Newsletter of the
GSA Hydrogeology Division

Fall 2013
Issue No. 80

The 125th Anniversary meeting in Denver is coming up, and the schedule is now final. Page 9 lists the topical sessions sponsored by the Hydrogeology Division; there are over 30 topical sessions. Remember to check the meeting website for many other co-sponsored topical sessions that are part of the technical program. Also remember to look for field trips, short courses, and other events on the meeting website and in the current issue of GSA Today.

A new Hydrogeology Division event will take place at this meeting, the Legends Dinner. This dinner will include presentations about each decade the Division has been in existence, by a professional who was active during that time. Several members of the Maxey and LaMoreaux family will also be in attendance. For details about this and the other Hydrogeology Division events during the meeting see the article on page 6.

We hope you can all join us at the meeting to celebrate the 125th Anniversary of the GSA, and celebrate the continued prosperity of the Hydrogeology Division.

Bill Sanford & Eliot Atekwana

Hydrogeology Division Joint Technical Committee Program Co-Representatives

In This Issue:

Chair's Corner...

Todd Halihan, Chair GSA Hydrogeology Division, pictured above with Martha and Maclain Halihan celebrating a hydrologically significant summer in Stillwater (still gets warm though)

This year marks the 125th anniversary of the Geological Society of America, and we expect a great meeting full of science, friends, and family. We look forward to seeing you in Denver for a week of great discoveries and warm friendship. Although Denver has been reminded strongly of the relationship between rocks and water with their recent floods, it shouldn't limit the meeting much (except for a couple of field trips). Of course, extra sessions have been added to evaluate the floods impacts.

The Hydrogeology Division will kick off the meeting on Saturday night this year with a Hydrogeology Legends Dinner. The meeting will be attended by the children of our division founders, Burke Maxey and Phil LaMoreaux. There are also many former chairs and division award winners who will be attending. Please join us for a legendary night. Along with the festivities there is a request to work on the genealogy of the division. Please go to phdtree.org and fill out your academic advisors info. Will be interesting to see if the family tree is a phreatophyte.

The rest of the meeting will have most of the things you have come to expect with short course, field trips, and theme sessions. There is a drive for a more diverse group of people attending the meeting, so if you see folks with special badges (I'm not sure what the badges look like), welcome them to the GSA. It is their first time attending!

The division business meeting will take place Tuesday after the banquet and awards luncheon. Please join us and provide your input on the health and direction of the division. This will be followed by the Birdsall-Dreiss lectureship and the annual Hydrogeology Division Student Reception.

See you there,

Todd

The Hydrogeologist

The Hydrogeologist is a publication of the Hydrogeology Division of the Geological Society of America. It is issued twice a year, to communicate news of interest to members of the Hydrogeology Division. During 1998, the publication moved from paper-based to electronic media. The electronic version may be accessed at: <*http://gsahydro.fiu.edu*>. Members of the Hydrogeology Division who have electronic mail will receive notification of all new issues. Other members will continue to receive paper copies.

Contributions and material are most welcome, and should be directed to the Editor. Submission as a Word or WordPerfect document is most expedient. The deadline for the Winterl issue is January 15, 2014.

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Zheng 2013 O.E. Meinzer Award Recipient

Chunmiao Zheng

The 2013 O.E. Meinzer Award will be presented to Chunmiao Zheng of both the University of Alabama and Peking University at the Hydrogeology Division luncheon at the Denver GSA meeting. Chunmiao received his B.S. in geology from the Chengdu College of Geology (now Chengdu University of Technology). He then completed his Ph.D. in the US at the University of Wisconsin-Madison in 1988. While at the University of Wisconsin-Madison Chunmiao developed an interest in writing codes for solute transport. Upon graduation he worked for S.S. Papadopulos & Associates before joining the faculty at the University of Alabama in the department of geological sciences in 1993 where he has been named the Lindahl Endowed Professor. He began extending his professional activities to his native China in 2006, and is now a Chair Professor at Peking University where he is also founder and director of the Center for Water Research. Chunmiao has produced a large body of impactful papers and reports, from which the award committee recognized two works as having significantly advanced the science.

In support of Chunmiao's Meinzer Award, two works were cited (see insert). This work highlights Chunmiao's research related to contaminant transport modeling. The first work is a report documenting the transport model MT3DMS (Modular 3-Dimensional Transport model with Multi-Species structure). The key features of this expanded version of MT3D include the addition of a third-order total-variation-diminishing (TVD) scheme for solving the advection term, a generalized conjugate gradient iterative solver, and the multicomponent program structure that can accommodate add-on reaction packages for modeling general biological and geochemical reations. The development of this code has fundamentally transformed the groundwater consulting industry by providing an open-access, user-friendly platform to construct reliable transport models.

The second work cited for this Meinzer Award is the popular textbook co-authored by Chunmiao with Gordon Bennett. This textbook provides comprehensive treatment of the fundamentals of transport modeling and is extremely well written, presenting material with exceptional clarity and at a level accessible to both students and experienced practitioners.

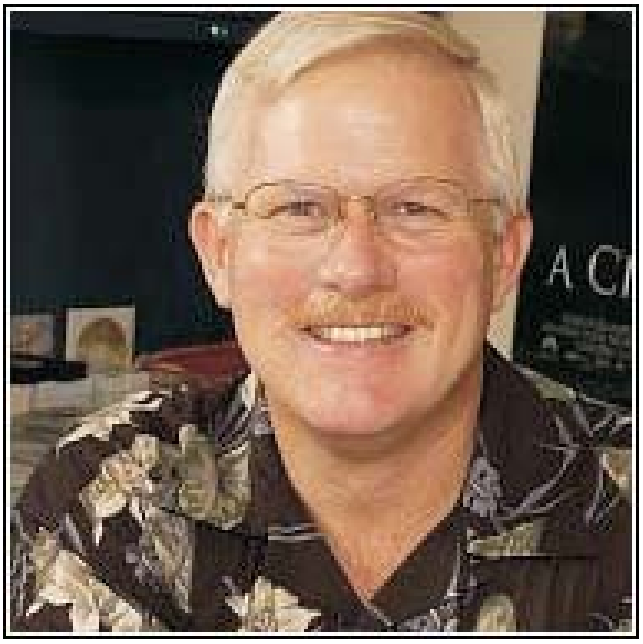
Both the development of MT3DMS and the textbook have provided both students and researchers around the globe with valuable tools for furthering their research and education. Both have been cited extensively in research publications and MT3DMS continues to be further developed by Zheng and other researchers worldwide. Given these vital contributions to hydrogeology Chunmiao Zheng is this year's recipient of the GSA Hydrogeology O.E. Meinzer Award.

Papers Cited For The Meinzer

Zheng, C. and Wang, P.P. (1999). MT3DMS: A Modular Three-Dimensional Multispecies Transport Model for Simulation of Advection, Dispersion, and Chemical Reactions of Contaminants in Groundwater Systems; Documentation and User's Guide. Contract Report SERDP-99-1, U.S. Army Engineer Research and Development Center, Vicksburg, MS, 169pp.

Zheng, C. and Bennet, G.D. (2002). Applied Contaminant Transport Modeling, 2nd Edition. John Wiley & Sons, New York, 621 pp.

Bair Receives the 2013 George Burke Maxey Distinguished Service Award



Dr. E. Scott Bair
The Ohio State University

The 2013 Burke Maxey Distinguished Service Award is presented to Dr. E. Scott Bair. Dr. Bair received his B.A. in Geology from the College of Wooster and his M.S. and Ph.D. from Penn State. Dr. Bair worked for the Geotechnical Division of Stone & Webster Engineering Corporation for six years after graduate school. He then joined the faculty at Ohio State in 1985 where he has taught courses in earth science, water resources, speleology, petroleum geology, hydrogeology, hydrogeologic field methods, and groundwater field modeling and won Ohio State's highest award for teaching excellence in 1991. He has also contributed to improving hydrogeology instruction by leading *On the Cutting Edge* Workshops and co-authoring the textbook *Applied Problems in Groundwater Hydrology*.

Scott has contributed significantly to the Geological Society of America Hydrogeology Division for several years. He is a GSA Fellow, was the 2000 Birdsall-Dreiss Distinguished Lecturer and in 2010 was the Hydrogeology Division Chair. Scott has also served on the Birdsall-Dreiss Selection Committee, the O.E. Meinzer Award Committee and the Hydrogeology Division's Nominating Committee.

Scott has also contributed significantly to the hydrogeology profession as a whole. Many of these contributions have been related to environmental litigation. This includes work on the landmark Woburn municipal water supply contamination case, as documented in the movie *A Civil Action*. He has also worked to improve undergraduate education through his experience with the Woburn trial through the incorporation of data, maps, testimony, exhibits, photographs and newspaper articles into a mock trial course and into modules within existing environmental geoscience courses.

Scott has served as associate editor of *Ground Water* for 11 years, has been on the Ohio Hazardous Waste Facilities Board for three governors and is now serving on the U.S EPA Science Advisory Board on Hydraulic Fracturing. He has also served as a technical reviewer for the Centers of Disease Control's investigation of male breast cancers at U.S. Marine Corps Base Lejuene.

His contributions extend beyond those in the hydrogeology profession. In addition to presenting seminars at more than 90 colleges and universities, he has also presented seminars at federal and state agencies, the Ohio Bar Association, Harvard Law School and the National Research Council.

Scott's citationist notes that beyond all of these notable contributions to the profession, Scott is also a great colleague and a pleasantly charismatic person. You can regularly find him at GSA meetings chatting with colleagues, old and new, and boosting enthusiasm within the students. For his contributions to the profession and our Society, the Hydrogeology Division is pleased to present Edwin Scott Bair with the 2013 George Burke Maxey Distinguished Service Award.

Larsen is the 2013 Recipient of the Kohout Early Career Award

Dr. Laurel G. Larsen
University of California Berkeley

"The award honors Francis Kohout, a visionary who advanced fundamental science on topics having major societal implications. Decades later Laurel Larsen continues that tradition""

Dr. Jud Harvey, *Citationist*

The 2013 Kohout Early Career Award is presented to Dr. Laurel G. Larsen of the Department of Geography at the University of California Berkeley. Laurel holds an undergraduate degree from Washington University in St. Louis, where she majored in Systems Science and Mathematics and Environmental Studies. She also completed her Master's degree at Washington University under the mentorship of Ray Arvidson in the Earth and Planetary Sciences Department where she studied remote sensing of soil moisture using inverse modeling of heat and moisture transport through unsaturated sediments in unvegetated regions. Laurel received her Ph.D. from the University of Colorado where she studied how water flow sculpts landscapes and affects ecosystem function. This work was conducted in the Florida Everglades and was motivated by how a parallel-drainage pattern formed and then rapidly degraded with anthropogenic changes to south Florida's hydrology. Her goal was to determine how the landscape of flow-parallel ridges and sloughs evolved to maximize both habitat diversity and connectivity, why it degraded in a century of man's care, and whether flow restoration could restore the lost functions. Her development of a reduced complexity model of hydroecological processes has since been adopted as a predictive management tool to guide the Everglades restoration toward realistic priorities.

After her Ph.D. Laurel moved to Reston, Virginia to continue her research in the USGS National Research Program as part of the Hydroecology of Flowing Waters Project. In January 2013 she began as an assistant professor in Geography at the University of California Berkeley.

Laurel specializes in understanding co-evolution of fluvial geomorphology and ecology of river corridors, with a focus on predicting outcomes for biodiversity, carbon and nutrient cycling, aquatic metabolism and food webs, and attenuation of waterborn contaminants. She understands that environmental changes are extraordinarily hard to predict as hydrological and ecological processes do not operate in isolation, and that consequently the degradation of valuable functions of a river or wetland corridor subjected to drastic flow changes cannot necessarily be reversed simply by restoring prior hydrologic conditions.

Laurel's citationist notes that she is part of a new cadre of scientists who recognize that complex environmental problems cannot be solved by subdividing them and finding separate solutions to 'water' problems and 'ecology' problems. Instead she works to advance new quantitative interdisciplinary techniques. For her work in the fundamental advancements combining field research and systems modeling to solve complex problems in hydrology and ecology, the Hydrogeology Division is proud to present Dr. Laurel Larsen with the 2013 Kohout Early Career Award.

125th Anniversary Meeting: Hydrogeology Division Events

For the anniversary meeting, the Hydrogeology Division will not only continue hosting their traditional events throughout the meeting, but has added some special anniversary events to the schedule. The article below highlights these Hydrogeology Division events.

Legends Dinner
October 26, 7-10 pm, The Broker Restaurant
This is a new event, in celebration of the GSA's 125th anniversary. This is a ticketed event; tickets can be purchased through registration ($50) and at the door ($TBD).

Darcy Distinguished Lecture
October 28, 5-6 pm Mile High Ballroom 1EF
Dr. David L. Rudolph will give the Darcy Lecture on Managing Groundwater Beneath the Agricultural Landscape.

Luncheon, Awards & Business Meeting
October 29, 11:30am - 3:15pm
Centennial Ballroom E
This always popular event is ticketed, with tickets available through registration ($45). This event is often sold out, and tickets are not usually available at the meeting.

Birdsall Dreiss Lecture
October 29, 4:30-5:30pm
Mile High Ballroom 2AB/3AB
Dr. Dani Or will give his Birdsall-Dreiss Lecture to wrap up his tour.

Student Reception
Immediately following Birdsall Dreiss Lecture
This event allows students the opportunity to mix and mingle with other members of the division, enjoy a free drink (thanks to the Diodato Student Travel and Beer Fund) and get a chance to win a prize.

Do you have an interesting idea for a short scientific article? Perhaps an opinion on a new policy or technique? Any exciting news in your professional life? Upcoming conference? An announcement of interest to the hydrological community? If so, why not publish it in The Hydrogeologist? Send your submission ideas to andrea@kgs.ku.edu

STUDENTS, WE WANT TO HEAR FROM YOU TOO!

Band to Tour as 2014 Birdsall-Dreiss Lecturer

Larry Band has been selected as the 2014 Birdsall-Dreiss Distinguished Lecturer. The lectureship is given to one person annually by the GSA Hydrogeology Division; Band is the 36th GSA Birdsall-Dreiss lecturer.

Larry Band is the Voit Gilmore Distinguished Professor of Geography and the Director of the Institute for the Environment at the University of North Carolina, and a Visiting Professor at the Chinese Academy of Science. Band's research is in watershed ecohydrology, including the co-evolution of ecological and hydrological systems. His current research focuses in two Long Term Ecological Research sites: Coweeta (North Carolina), and the Baltimore Ecosystem Study. In 2010 he was Board Chair for the Consortium of Universities for the Advancement of Hydrologic Sciences, and was a deputy editor for Water Resources Research. Band was a visiting scientist at the Australian CRC for Catchment Hydrology in 1992-1993 and at the Bureau of Meteorology and CSIRO in 2008, the latter on science and management response to the Australian drought. Band has published >130 papers, book chapters and technical reports. His 2014 Birdsall-Dreiss lectures will be based on research linking surface/subsurface flowpath dynamics with ecosystem development in forested and urban sites.

Interested institutions should contact Larry Band at lband@email.unc.edu to schedule a lecture on one of the following topics:

1. Critical zone processes at the watershed scale: Hydroclimate and groundwater flowpath mediated evolution of forest canopy patterns: Since the classic work by Hack and Goodlett in 1960, it has been recognized that there is a close coupling of geomorphic, groundwater. ecosystems and soil processes in mountainous catchments. In the southern Appalachians, forest cover provides high quality freshwater and regulates net recharge, and is in turn strongly influenced by subsurface redistribution and availability of water and nutrients. Classic experiments by Hewlett and Hibbert in lined soil troughs fifty years ago at Coweeta Hydrologic Laboratory suggested stream baseflow may be supplied by shallow subsurface throughflow, which has since been a dominant paradigm. However, deeply weathered saprolites and fracture networks may be responsible for a range of shallow to deeper flowpaths, resulting in distinct, observable space/time distributions of soil water, nutrients and canopy patterns. In this presentation, we combine long-term observations from Coweeta with coupled simulation of ecosystem, hydroclimate and subsurface hydrology to explore co-evolution of critical zone hydrologic and ecosystem dynamics. The three decade high resolution remote sensing record confirms distinct signatures of the response of catchment canopy patterns to hydroclimate change mediated through subsurface flowpaths.

2. Green infrastructure, groundwater and the sustainable city: Provision of sufficient quantities and quality of freshwater, treatment and disposal of wastewater, and flood protection are critical for urban sustainability. Over the last century, two major shifts in drainage paradigms have occurred; the first to improve public health with centralized sanitary effluent collection and treatment, and the rapid drainage and routing of stormwater. A shift is now being implemented to retain, rather than rapidly drain, stormwater, with a focus on infiltration based methods shifting hydrologic behavior to depression focused recharge. While stormwater is defined as surface flow resulting from developed areas, an integrated hydrologic systems approach to urban water management requires treatment of the full critical zone, extending from the top of the vegetation and building canopy, to depths including natural soils, fill, saprolite and bedrock. In addition to matric and network flow in fracture systems, an urban “karst” includes multiple generations of infrastructure, with extensive supply and drainage pipe networks, enhancing surface/groundwater exchange. In this presentation, Band will focus on the urban critical zone, and the synthesis of modeling and analytical approaches to understand and plan green infrastructure based on surface/groundwater/ecosystem interactions, and implications for the restoration and new design of cities.

Where in the World?

This Edition's Photo:

This edition's photo is brought to us by Darryll Pederson.

Hint: This photo was taken in the same state as my first Editor's photo (Spring 2010). Darryll's response to that photo is what started this article.

Submit your guesses to andrea@kgs.ku.edu

Wayne Pettyjohn's House (Stillwater, OK)

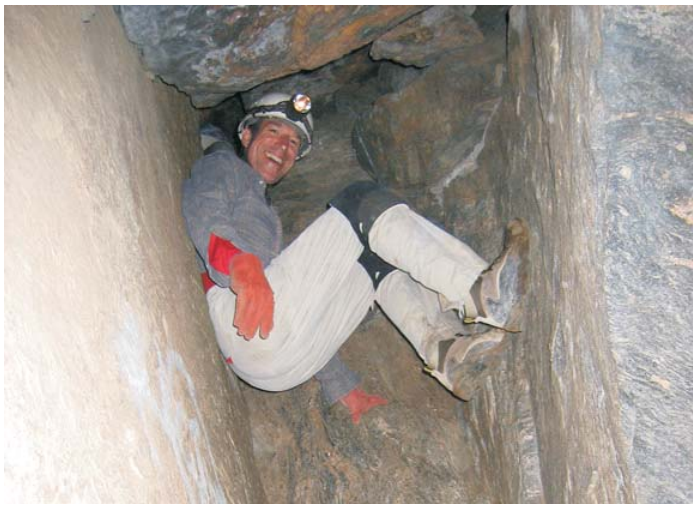
Congratulations to Darryll Pederson of the University of Nebraska-Lincoln for being the first to correctly identify the location of this picture as Wayne Pettyjohn's house. Congratulations as well to David Stephenson and Ed Harvey in also correctly guessing the location.

Wayne Pettyjohn (1987 Division Chair) is standing next to 3 piezometers located beneath a cabinet in his home in Stillwater, OK. Wayne lives in an average American subdivision, with a hydrogeologically above average home. The home hosts 43 piezometers including three inside the home shown in the picture. The home was used for a number of M.S. and Ph.D. projects as well as student training. The majority of the wells were hand dug with an auger by students, with a few being installed using a rig. The aquifer is a fractured clay that has much higher flow velocity than would be expected than by just looking at the core.

2013 GSA Annual Meeting Program Schedule
Hydrogeology Division

Session Title	Day	Time	Room
T42. Current Groundwater Challenges in the Rocky Mountain Region	SU	8 a.m. - noon	Room 207
T56. Streams and Aquifers: Integrating the Physical and Chemical I	SU	8 a.m. - noon	Room 301
Hydrogeology (Posters)	SU	9 a.m. - 6:30 p.m.	Hall D
T47. Founders or Leaders in Hydrogeology	SU	1 p.m. - 5 p.m.	Room 207
T56. Streams and Aquifers: Integrating the Physical and Chemical II	SU	1 p.m. - 5 p.m.	Room 301
T34. Advances in Unsaturated Zone Geophysics and Process Understanding	MO	8 a.m. - noon	Room 207
T40. Applications and Developments of Coupled Hydrologic Models	MO	8 a.m. - noon	Room 301
T54. Remote Sensing of the Cryosphere—Building on the Legacy of Austin Post	MO	8 a.m. - noon	Room 205
T56. Streams and Aquifers: Integrating the Physical and Chemical (Posters)	MO	9 a.m. - 6:30 p.m.	Hall D
Hydrogeology I	MO	1 p.m. - 5 p.m.	Room 303
T36. Impacts of Land-Use Change and Disturbances on Unsaturated-Zone Ecohydrology and Process Characterization	MO	1 p.m. - 5 p.m.	Room 301
T44. Environmental Arsenic: The Nexus of Natural Occurrences and Human Health	MO	1 p.m. - 5 p.m.	Room 205
T57. Understanding Contaminant Fate and Transport in Unconsolidated Aquifers—A Session on the Occasion of 30 Years of Long-Term Research at the Cape Cod Toxic Substances Hydrology Field Site	MO	1 p.m. - 5 p.m.	Room 302
T38. Vadose Zone Flow and Transport in Natural or Engineered Systems	TU	8 a.m. - noon	Room 301
T49. Groundwater Extremes: Groundwater's Role in Drought, Floods, Depletion, Subsidence, Landslides, and Sea-Level Rise	TU	8 a.m. - noon	Room 302
T55. Secondary Water Quality Effects of Natural and Enhanced Attenuation of Contaminants	TU	8 a.m. - noon	Room 303
T34. Advances in Unsaturated Zone Geophysics and Process understanding (Posters)	TU	9 a.m. - 6:30 p.m.	Hall D
T44. Environmental Arsenic: The Nexus of Natural Occurrences and Human Health (Posters)	TU	1 p.m. - 5 p.m.	Hall D
Hydrogeology II	WE	8 a.m. - noon	Room 301
T43. Ecohydrological Impacts from Climate-Induced Changes in Land Cover and Vegetation in Mountain Environments	WE	8 a.m. - noon	Room 302
T46. Experimental Study and Numerical Simulation of Reactive Chemical Transport in Complex Subsurface Media	WE	8 a.m. - noon	Room 207
T41. Contaminant Migration through the Groundwater–Surface- Water Interface: Processes, Impacts, and Implications for Remediation (Posters)	WE	9 a.m. - 6:30 p.m.	Hall D
T46. Experimental Study and Numerical Simulation of Reactive Chemical Transport in Complex Subsurface Media (Posters)	WE	9 a.m. - 6:30 p.m.	Hall D
T48. Ground-Source Geothermal Energy Systems: A Significant Emerging Resource (Posters)	WE	9 a.m. - 6:30 p.m.	Hall D
T49. Groundwater Extremes: Groundwater's Role in Drought, Floods, Depletion, Subsidence, Landslides, and Sea-Level Rise (Posters)	WE	9 a.m. - 6:30 p.m.	Hall D
T53. Mountain Groundwater: Recent Advancements in the New Era of Climate Change and Resource Development (Posters)	WE	9 a.m. - 6:30 p.m.	Hall D
T41. Contaminant Migration through the Groundwater–Surface-Water Interface: Processes, Impacts, and Implications for Remediation	WE	1 p.m. - 5 p.m.	Room 301
T48. Ground-Source Geothermal Energy Systems: A Significant Emerging Resource	WE	1 p.m. - 5 p.m.	Room 302
T52. Innovative Teaching of Hydrogeology	WE	1 p.m. - 5 p.m.	Room 205
T53. Mountain Groundwater: Recent Advancements in the New Era of Climate Change and Resource Development	WE	1 p.m. - 5 p.m.	Room 207

David M. Diodato, Ph.D.



Our friend and colleague, Dave Diodato passed away peacefully at 2 am on Thursday, March 14, 2013, after a heroic four-year battle with amylotrophic lateral sclerosis (ALS). Dave was born on July 25, 1959 in Wilmington, Delaware. He was the oldest of three children and is survived by his mother Sally, father Pat, sister Mary, brother Richard, and countless others whose lives he enriched.

Dave received his bachelor's degree in Geology with a minor in English in 1985 from the University of Delaware, his master's degree in Geology from Penn State in 1989 and his doctorate in Geosciences from Penn State in 1997. The culmination of his studies was a doctoral thesis titled "FracFlow96: A Numerical Model for Simulating Mulitphase Fluid Flow in Fractured Porous Media with an Application at Yucca Mountain, Nevada." His expertise was broad and deep, covering quantitative and qualitative analysis of hydrogeologic systems, geologic and science policy aspects of nuclear waste isolation, and the development and communication of national water resources science policy. He was the primary author of over 20 articles in peer-reviewed journals and was the founder, designer, and webmaster of The Hydrogeologist's Home page (TheHydrogeologist.com).

Professional career positions included time with Duffield and Associates, Nittany Geoscience, Argonne National Laboratory, self-employment as David M. Diodato HydroSolve, the U. S. Geological Survey, and the U. S. Nuclear Waste Technical Review Board, where he finished his career. One of his more recent projects was to represent the Review Board in the Federal Green 34 Federal agencies to reduce their carbon footprint. Dave was particularly proud to represent his agency during Green Challenge meetings at the White House, looking the part and sharing the table with cabinet-level representatives from other agencies. Contributions by Dave to the profession were recognized by the Geological Society of America, which elected him a fellow and bestowed upon him the Hydrogeology Division Distinguished Service Award.

Dave had a tremendous zest for life, as evidenced by the time he spent with friends, his love of good food and beverage, listening to a wide variety of music, and driving over the speed limit. He had private pilot's license and belonged to a flying club at the Montgomery County Airpark (KGAI) in Gaithersburg, MD, from which he piloted trips to Puerto Rico and Ontario. A natural runner, he successfully completed both the Marine Corps and Big Sur International Marathons. Hiking in the mountains and surfing were other favorite pastimes of Dave.

During his lifetime Dave initiated and endowed two charitable funds related to the annual Geological Society of America meeting. Both seek to promote interaction between colleagues, especially students. These are The Diodato Hydrogeology Student Travel and Beer Fund (Geological Society of America), and the David Diodato Alumni Reception at GSA (a Penn State event)*.

Everyone who worked with Dave knew of his commitments to his profession, society, friends, and family. May his memory be perpetuated by those who had the distinct privilege to know Dave.

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*Contributions to these funds may be made at:
http://www.gsafweb.org/funds/diodato-fund.html, and at:
https://securelb.imodules.com/s/1218/index_giving.aspx?sid=1218&gid=1&pgid=658&cid=2321

In the Gift Information section enter the amount then click on the checkbox to view 'giving opportunities', in the popup box, scroll all the way to the bottom and click 'other' then click 'continue'. Back on the Gift Information screen, enter "XCMDA David Diodato Fund" in the 'Other' box. Then continue completing the entire form. A week or so afterward you should receive a tax-deductible receipt listing that your fund went to the David Diodato endowment.

Useful at the Well Site

By Todd Halihan

On Vanity

The last couple of newsletters, we had things that were useful to bring to the field. This time we will talk about things that you shouldn't bring to the field. Number one on that list is vanity. A number of lightly-initiated hydrogeologists will go to the field and want to look reasonably fashionable, generally to their detriment.

My father worked as a tow truck driver for the state of Illinois and spent many a winter's day with an overturned semi trailer in the snow. His saying was, "Vanity has no place in the cold." He would dress like something from a bad B-movie to try to stay warm while sitting in Chicago road slush (lightly salted, generally dark grey in color) and spilled diesel fuel. I modified his saying to say that "Vanity has no place in the field."

While in the field, you are generally bombarded by critters (bugs, snakes, cows, etc), sun, wind, precipitation, and some variety of soil. Many students will come to the field in short sleeves, shorts, and open toe shoes in the summer, to find themselves bit up, dehydrated and sunburned in the summer. In the winter, they won't wear a hat or suitable clothes and will be cold, frosty, and sunburned. This is compounded by people that don't like wearing the required safety gear because they look silly.

Jennifer Thorstad Rose and Todd Halihan dressed with a complete lack of fashion sense and vanity, but with a high level of common sense in Mexico.

I find a discussion of vanity is quite useful in the field to limit people's desire to look good at the expense of useful and safe field work. If you have a truly attractive field photo illustrating the point, please send it in ;)

HOW TO SURVIVE IN THE FIELD WITH TODD HALIHAN (A Student's Guide)

Other tips:

MUST Treat clothes for ticks

Pack plenty of snacks, Todd gets cranky when hungry

Great Minds Dress Alike

Vanity has No Place in the Field

BULLETIN BOARD

AGU Fall Meeting

The AGU Fall Meeting will be held December 9-13 in San Francisco in the Moscone Convention Center. Registration fees will increase after November 8, so register today!

NGWA Ground Water Expo

The NGWA Ground Water Expo will be held December 3-6 in Nashville. Registration fees will increase after November 8, so register today!

GSA 2014 Vancouver, BC Canada

Upcoming deadlines:
Field Trip Proposals - Dec. 2, 2013
Technical Session Proposals - Jan. 14, 2014
Short Courses Proposals - Feb.1, 2014
Technical Sessions Proposals - Jan. 14, 2014

GSA Section Meetings

Northeastern: Lancaster, PA, Mar. 23-25 2014
Southeastern: Blacksburg, VA, Apr. 10-11 2014
South-Central: Fayetteville, AK, Mar. 17-18 2014
North Central: Lincoln, NE, Apr. 24-25 2014
Rocky Mountain: Bozeman, MT, May 19-21 2014

PLACE YOUR ANNOUNCEMENT HERE

From the Editor....

Welcome to the Fall 2013 edition of the Hydrogeologist! This edition highlights the upcoming 125th Anniversary meeting to be held at the end of this month in Denver.

The past few months have been busy for me, due to the two men pictured with me here. Our second son, Karsten William, was born on June 6th. I look forward to the upcoming meeting to not only meet with all of my Hydrogeology Division colleagues, but also to enjoy a couple child-free nights (thanks to my parents).

I hope to see you all there, and as usual, forward any comments or article ideas to andrea@kgs.ku.edu.

Andrea

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2013 Management Board
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First Vice-Chair: Alan Fryar: alan.fryar@uky.edu
Second Vice-Chair: Maddie Schreiber: mschreib@vt.edu
Secretary-Treasurer: Eric Peterson: ewpeter@ilstu.edu
Past Chair: Steve Ingebritsen: ingebritr@sbcglobal.net

Standing Committees

Technical Program Committee:
Bill Sanford and Eliot Atekwana (2013 - Denver)

Nominating Committee: Scott Bair (Chair), Ed Harvey, Steve Ingebritsen

Meinzer Award Committee:
Mary Jo Baedecker (Chair), Bayani Cardenas, Graham Fogg, Kamini Singha, David Leland Parkhurst

Birdsall-Dreiss Lecturer Commitee:
Jeffrey McDonnell (Chair), Jay Famiglietti, Dani Or

Distinguished Service Award Commitee:
Laura Lautz (Chair), Mary Anderson, Brian Katz

Kohout Early Career Award: Steve Van der Hoven (Chair), Scott Tyler, Shaul Hurwitz, Maddie Schreiber, Bayani Cardenas

Ad Hoc Committees

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North Central - Sue Swanson
South Central - Marcia Schulmeister
Rocky Mountain - Andrew Manning
Southeastern - Joe Donovan

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American Geophysical Union - TBD
American Geological Institute - Dave Stephenson
National Ground Water Association - Bill Alley
International Assoc. of Hydrogeologists - Jack Sharp & Vicky Kretsinger
Society for Sedimentary Geology - Gary Weissman

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Web Administrator: Mike Sukop

GSA Hydro. Division Liaison: Janet Herman

Hydrogeology Division Website: <http://gsahydro.fiu.edu>