MINNESOTA GROUND WATER ASSOCIATION

NEWSLETTER

v.6 n.1 May 1987

Position Wanted Hydrogeologist

B.S. Geology; M.S. Hydrogeology Five years experience as project hydrogeologist/project manager all phases of RCRA and CERCLA. Desires to relocate in Minnesota.

I was trying to figure out a way to get peoples' attention and, judging by recent discussions with those in government and consulting, that little "ad" above seemed like a sure-fire way to accomplish my objective. If anyone knows where I can find such a person, or if you are one, please let me know; I need four. If anyone needs resumes of "hydro"geologists with 10 to 20 years of experience in oil or minerals let me know, I've got lots of them.

The ground water business is obviously booming these days. There is no shortage of legislation dealing with ground water, both at the state and federal level; short courses abound which promise to make ground water experts out of any and all who attend; you must be a hermit if you haven't sponsored, spoken at, or attended numerous conferences or seminars on one of the many pressing issues associated with one of our most precious resources - water. Good, experienced hydrogeologists, seeking employment, are all but impossible to find. Lastly, but perhaps most importantly there is some money available. Those who have been around for awhile have drawn parallels between the current activity and the early days of the construction grants program.

Things are no different here than anywhere else. There has been a fair amount of activity locally and there will continue to be throughout the summer. MGWA did not hold a spring meeting because of the high level of activity as everyone was gearing up for the summer field season, which actually got started quite early this year thanks to the laugher of a "winter" we had. There are, however, a number of MGWA sponsored and co-sponsored activities and some sponsored by other organizations that we hope you'll find time for on your schedule this summer and fall.

The MGWA summer meeting will be quite different, but as usual very interesting and informative. Mike Schoenberg (USGS) has been hard at work on it and I hope to see all of you at the meeting at the St. Paul AVTI. The details are in this newsletter.

The Association of Ground Water Scientists and Engineers (NWWA) is holding its annual meeting in Minneapolis September 15 and 16. MGWA is co-sponsor. This meeting has historically been poorly attended, but AGWSE has developed what looks to be an excellent program to try and break out of the slump. MGWA would like our members to turn out *en masse*. Minnesota has been frequently overlooked on the national scene and we think it is important that others see the interest there is in Minnesota in ground

PRESIDENT'S PAGE

water and how progressive our programs are. The topic of the meeting will be contaminant hydrogeology and will include such internationally recognized experts as John Cherry (Waterloo), Paul Roberts (Stanford), and Lenny Konikow (USGS). All MGWA members should have already received a call for abstracts and we hope the MGWA membership will be represented among the speakers and/or at the poster sessions.

Locally, MGWA has arranged for Senator David Durenberger (R-MN) to address the meeting of Federal Legislation. In addition, Tom Kalitowski, Executive Director of MPCA will speak on his participation in the implementation of SARA at the state level. Kelton Barr (Barr Engineering), Patricia Leonard-Mayer (Harstad and Rainbow) and Dr. John Niebur (U of Minnesota, representing AIH) will participate with NWWA representative Tom Sheahan (Geraghty & Miller) in a panel discussion on certification of ground water professionals. Let's all turn out for the meeting.

Other local ground water conferences coming up include:

Non-Point Source Pollution - New Initiatives for Management. June 17 and 18; St. Paul, Sponsored by the Upper Mississippi River Basic Association, USEPA and USSCS.

Agricultural Chemicals and Ground Water Quality, October, 1987. Sponsored by the Freshwater Foundation through a grant from the Governor's Rural Development Council. Currently in the planning process.

-See pp.5-6 for others.

Hope to see you at one of these conferences.

Gretchen Sabel now has copies of the updated Procedures for Ground Water Monitoring - MPCA Guideline. If you'd like one, contact Gretchen at the MPCA at (612) 296-7262.

If you haven't decided whether ground water is one word or two, you should check out the Readers Forum in the March-April issue of Ground Water (p. 219). Entertaining if not enlightening.

Have a safe summer and don't forget the AGWSE meeting September 15 and 16 in Minneapolis.

- Rick Johnston

MINNESOTA GROUND WATER ASSOCIATION SPRING MEETING

St. Paul Vocational Technical Institute 235 Marshall Avenue St. Paul, Minnesota Wednesday, June 17, 1987

Imagine this: You've just returned from the field and have stacked up all the field data sheets, the pump test records, the survey notes for well elevations, the water level elevations. The pile grows to an intimidating height, yet you aren't worried about getting it all processed in short order. Why not? Your computer workstation consists of the latest in hardware and software. You have a digitizer, a scanner, a large format plotter, high resolution screen and laser graphics; you can download data from remote stations and hand-held data loggers. No problem!

Dream or reality? Now or the future? Well, while the above scene may not yet be true today, its time is fast approaching. With ever increasing amounts of data, our need to effectively and efficiently process it is also increasing. So take one of the future paths of hydrogeology and step into the realm of increasingly automated data entry and analysis. Join us at the Minnesota Ground Water Association for its summer meeting; we will look at computer equipment and software and hear Fritz Ehlers of Cray Research discuss the role workstations and supercomputers may have in your future.

SCHEDULE:

4:30	- 7:00 pm	Computer Fair
7:30	- 8:30 pm	Fritz W. Ehlers of Cray Research: The Role and Use of a Supercom- puter Workstation for Hydrogeo- logical Applications.
8:30	- 9:45 pm	Refreshments and conversation
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REGISTRATION FORM

MGWA SPRING MEETING

June 17, 1987 Starting 4:30 pm St. Paul Technical Vocational Institute

Fill out this form, include \$2 registration fee, and mail by June 10th to:

MGWA, c/o Mike Schoenberg U.S. Geological Survey 702 Post Office Building St. Paul, MN 55101

Names	
Affiliation	
Address	
City/State/Zip	
Business/Day Phone	
\$2 per registration	
\$10 per annual dues (two birds with one stone?)	
Total enclosed	

ANNUAL ELECTIONS

The Assocation is having its annual spring election. The following members have been nominated for election to the offices of President-Elect and Secretary. The President-Elect serves for one year and then becomes President for the following year. The Secretary serves for two years.

Candidates for President

Charles Job -- Chuck is the Environmental Department Manager for Twin City Testing Corporation. He received a B.S. in geology from Michigan State University and an M.S. in Environmental Science/Ground Water Geology from Miami University. In addition, Chuck has done graduate work at the University of Arizona. Prior to joining Twin Cities Testing, Chick's work experience included serving as Planning Director for the Great Lakes Basin Commission, Project Manager with the Gas Research Institute, and as a Hydrologist with the EPA.

Linda Lehman -- Linda is President of L. Lehman and Associates. Linda obtained her M.S. degree from the University of South Florida in Hydrogeology and is currently a PhD candidate at the University of Minnesota. She has had extensive professional experience in the field of nuclear and hazardous waste management, including three years with the U. S. Nuclear Regulatory Commission, and as a representative for the State of Minnesota at the National Governor's Association Task Force on High-Level Radioactive Waste Management.

Candidate for Secretary

Gordy Hess -- Gordy is a hydrologist with the firm of Jerry Sunde and Associates. He received B. A. and M.S. degrees from the University of Minnesota and a PhD in Marine Geology from Stanford University. Prior to his current position, Gordy worked for the U.S.G.S., in California, as a marine Geologist.

MGWA BALLOT -- Spring 1987

President-Elect (vote for one)

Charles Job		
Linda Lehman		
write-in candidate		
	Secretary (vote for one)	
Gordy Hess	,	
write-in candidate		

Please mail this ballot to:

Minnesota Ground Water Association P.O. Box 3362 St. Paul, MN 55165

MEMBERS' PROMOTIONS, CHANGES AND NEWS

Paul Book, formerly with the Minnesota Pollution Control Agency (PCA), will be manager of geologic investigations with Braun Engineering.

Janet Dalgleish has accepted a Hydrogeologist II position in PCA's Division of Solid and Hazardous Waste.

Laurel Reeves has been promoted to Senior Hydrologist and is returning to the DNR's Division of Waters from PCA.

Bay West has moved to new quarters: 5 Empire Drive, St. Paul MN 55103, the new telephone number is (612) 291-0456.

Bruce Davis, formerly at PCA, has moved to Phoenix to head up the State of Arizona's Superfund Program. We hear that he sold off his snowblower and all his Deep Woods Off to the highest bidder.

Larry Johnson, formerly at E. A. Hickok & Assoc. joined Foth & Van Dyke in January.

Jan Falteisek, PCA, was promoted to Senior Hydrologist (Hydro III).

John Dustman, formerly at the Department of Transportation, has joined Twin City Testing.

Dave Vieau, together with other professionals, has formed a new firm, NOVA.

RON NARGANG IS NEW DIRECTOR OF THE DNR DIVISION OF WATERS

Ron Nargang has been appointed Director of the Division of Waters, Minnesota Department of Natural Resources (DNR).

Born and raised in a rural area of northeastern Iowa, Ron received a B.S. degree in Natural Resource Management from the University of Wisconsin - Stevens Point. He served as the Executive Director of the Lake County Soil and Water Conservation District in the Chicago metropolitan area where he coordinated the development of a program to reduce soil erosion and sedimentation on developing urban lands. He moved to Minnesota in 1976 and served as the Assistant Director for the Soil and Water Conservation Board until 1984 when he was appointed Director of the Soil and Water Conservation Board.

Ron assumed his new position in January, 1987. The Division of Waters administers (among other things) the water appropriation permits required by state law for all appropriations which average 6 gpm per day or 2 gpm per year.

NEXT MEETING

The late summer MGWA seminar will be on nitrates. How widespread is Minnesota's nitrate problem? What are the health effects? What research is on-going? What are potential remedies? If you know of someone who has information or research to share on the nitrate problem, please call Pat Bloomgren at DNR (612) 296-0436.

PRISCILLA GREW IS NEW DIRECTOR OF THE MINNESOTA GEOLOGICAL SURVEY

On November 1, 1986, Priscilla C. Grew became Director of the Minnesota Geological Survey and professor in the Department of Geology and Geophysics at the University of Minnesota.

From 1981 to 1986, Dr. Grew was Commissioner of the California Public Utilities Commission. She directed the California Department of Conservation from 1977 to 1981. This Department includes the California Geologic Survey Division, the Division of Mines and Geology and the Regulatory Division of Oil and Gas. Dr. Grew also chaired the California State Mining and Geology Board which is responsible for mined land reclamation policy.

Dr. Grew received her B.A. in Geology from Bryn Mawr and her Ph.D. in Geology from the University of California at Berkeley. She has taught Geology and Environmental Studies at Boston College, the University of California at Davis, and UCLA.

She serves on the U.S. National Committee on Geology and the National Research Council Board on Mineral and Energy Resources. She is a fellow of the Geological Society of America and the American Association for the Advancement of Science. She chairs the committee on public affairs of the American Geophysical Union.

She is married to Edward S. Grew who is Associate Research Professor of Geology at the University of Maine at Orono. His research concerns Precambrian studies in East Antarctica and petrology of granulite facies of metamorphic rocks.

MGWA

MEMBERSHIP LIST

1987

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CALENDAR

- May 14 15 The Fundamentals of Ground Water Contamination. To be held at the Stouffer Concourse Hotel, Arlington, Virginia. Contact: R. M. Miller, American Ecology Services, Inc., 127 East 59th St., New York, NY 10022.
- May 18 22 1987 AGU Spring Meeting and Special Poster Symposium: Evaluation of Ground-Water Flow and Transport Modeling Strategies. To be held in Baltimore, Maryland. Registration is still possible by calling AGU at 1-800-424-2488.
- May 18 21 First National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods. A new format will be used: conference, outdoor workshops and demonstrations, and an exposition. To be held in Las Vegas, Nevada at the Tropicana Hotel by the Association of Ground Water Scientists (AGWSE), a division of the National Water Well Association (NWWA).
- June, 1987 ASCE National Conference on Water Resources Planning and Management. To be held in Kansas City, Missouri. Contact: Harry Tuvel, ASCE, 345 E. 47th St. New York, NY 10017.
- June 1 5 Practical Approaches to Ground-Water Hydrology and Contamination. To be held in Stillwater, Oklahoma by Oklahoma State University, Arts and Sciences Extension, 206 Life Sciences East, Stillwater, OK 74078-0276. This course uses a practical approach, calling upon experienced professionals in ground-water monitoring, aquifer restoration, modeling, well construction and design, and contaminant transport. The latest information about Superfund and RCRA amendments will be presented. Two hours of graduate credit are available. Offered again July 13 17.
- June 2 4 Principles of Ground Water. To be held in Columbus, Ohio by NWWA. This course concentrates on essential concepts, including aquifer test procedures.
- June 8 9 Conference on the Quality of Ground Water in Geologically Sensitive Areas at Winona State University. Registration details available from Dr. Wayne E. Dunbar, Chemistry Department, Winona State University, Winona, MN 55987. After May 28, call 1-507-457-5296.
- June 8 11 Underground Storage Tanks. To be held at the Airport Mariott in Orlando, Florida. Contact: Mean Free Path Corp. 220 Pegasus Ave., Northvale, New Jersey 07647.
- June 9 10 Northeast Ground Water Exposition. To be held in Albany, New York by NWWA.
- June 15 17 Corrective Actions for Containing and Controlling Ground-Water Contamination. To be held in Bloomington, Minnesota by NWWA.
- June 15 19 Ground Water Modeling Without Advanced Mathematics. To be held in Somerset, New Jersey by NWWA.

- June 16 July 16 Water Resources/Hydrogeology. To be held at Macalester College in St. Paul, Minnesota. This course will meet in the late afternoon and evenings T-W-Th. Participants receive six quarter hours of credit. A limited number of professionals in hydrogeology will be given an introduction to the basic types of ground water models, their assumptions and applications. Hands-on modeling experience and the use of digitizers and computer graphics will be emphasized. Contact: Macalester's Summer Session Program (696-6296) for registration materials.
- June 18 DRASTIC Workshop. A standardized approach for evaluating ground water pollution potential using hydrogeologic settings. To be held in Bloomington, Minnesota by NWWA.
- June 22 25 Local Ground Water Management: Contamination Impacts and Response Strategies. To be held at Cornell University. Contact: Programs in Professional Education, Cornell University, B12 Ives Hall, Ithaca, New York 14853-3901.
- June 22 26 Safety at Hazardous Waste Materials Sites: A (Gloved) Hands-On Workshop. To be held in Valhalla, New York by NWWA.
- June 22 26 International Ground Water Conference Ground Water and the Environment. To be held in Kuala Lampur, Malaysia. Contact: Secretary, Ground Water Conference, 1987, c/o Department of Geology, Faculty of Physical and Applied Science, Universiti Kebangsaan Malaysia, 4300 Bangi, Selangor, Malaysia.
- July 7 9 Introduction to Ground Water Geochemistry. To be held at the Colonnade Hotel in Boston, Massachusetts by AGWSE (NWWA). To be repeated September 29 October 1 in San Diego, California.
- July 7 9 Fundamentals of Ground Water and Well Technology: An Introductory Short Course. To be held in Columbus, Ohio by NWWA.
- July 13 17 Aquifer Analysis. To be held in Columbus, Ohio by NWWA. Five week-long short courses will be offered this summer. At this one, the first, 3 quarter hours of graduate credit are available (Ohio State). This course will teach the use of both graphical and computer analysis. After all if we are wrong on T, S, boundary conditions and leakage, we are wrong about everything else as well! Other dates: July 20 24 at Somerset, New Jersey; July 27 31 at Orlando, Florida; August 3 7 at Denver, Colorado; August 24 28 at Stockton, California.
- July 21 22 Effective Use of Geologic Information in Ground Water Models. Distinguished Seminar Series Dr. Mary P. Anderson. To be held in Bloomington, Minnesota by NWWA.

August 1 - 6 The 25th Annual Conference of URISA (Urban and Regional Information Systems Association). To be held in Fort Lauderdale, Florida. Contact: URISA 319 C St. SE, Washington, D.C. 20003.

August 5 Risk Assessment for the Ground Water Scientist, taught by Dr. Ronald Block. To be held in Baltimore, Maryland, by NWWA.

August 10 - 12 Ground Water Treatment Technology Short Course. To be held in Seattle, Washington, by NWWA.

August 11 - 12 Underground Storage Tank Management. To be held in Burlington, Massachusetts by NWWA.

September 15 - 16 Annual Meeting of the Association of Ground Water Scientists and Engineers - Contaminant Hydrogeology. Dr. John Cherry will keynote the conference to be held in Minneapolis, Minnesota.

September 18 - 20 Fluid flow in fractured media. To be held in Atlanta, Georgia. Sponsored by the USGS, the Georgia Water Research Institute, and Georgia State University.

September 29 - October 1 Agricultural Impacts on Ground Water. To be held in Des Moines, Iowa by AGWSE (NWWA).

October 12 - 13 Geologic and environmental characterization at hazardous waste facilities and Ground water protection and management strategies. Both to be held in Atlanta, Georgia. Sponsored by the Association of Engineering Geologists, cosponsored by the Georgia Ground Water Association.

October 13 - 15 Ground Water and Geotechnical Problems Conference. To be held in Chicago, Illinois by AGWSE (NWWA).

October 26 - 29 International Conference on Ground Water Contamination: Use of Models in Decision-Making. To be held in Amsterdam, The Netherlands. Contact: TNO Corporate Communication Department, P.O. Box 297, 2501 BD The Hague, The Netherlands.

October 28 - 30 32nd Annual Midwest Ground Water Conference. To be held in Madison, Wisconsin. Contact: Alexander Zaporozec, Wisconsin Geological and Natural History Survey, 3817 Mineral Point Road, Madison, Wisconsin 53705.

November Ground Penetrating Radar Workshop. To be held in Gainsville, Florida. Contact: Gregg Schellentrager, 401 S. E. First Ave., Room 248, Gainsville, Florida 32601.

November 1 - 6 23rd Annual AWRA Conference - Averting Water Crises and Symposium - Water Resources Problems Related to Mining and Energy: Preparing for the Future. To be held in Salt Lake City, Utah. Contact: Dr. Alten B. Davis, Department of Political Science (1203), Weber State College, Ogden, Utah 84408.

November 4 - 6 Petroleum Hydrocarbons and Organic Chemicals in Ground Water. To be held in Houston, Texas by NWWA.

November 9 - 12 NCGA's Mapping and Geographic Information Systems '87. To be held in San Diego, California by the National Computer Graphics Association. Contact: NCGA, 2722 Merrilee Drive, Suite 200, Fairfax, Virginia 22031.

November 19 - 20 20th Annual Water Resources Conference - Stormwater Management: Policy and Practice. To be held at the University of Minnesota. Contact: Cheryl Jones, University of Minnesota, 315 Pillsbury Drive, S.E., Minneapolis, Minnesota 55455 or call 1-612-625-9516.

For information about meetings and seminars to be held by the NWWA, contact NWWA at 6375 Riverside Drive, Dublin, Ohio 43017 (614) 761-1711, Telex 241302.

WINTER MEETINGS

The association held its winter meeting on February 10, 1987 at the Earle Brown Center on the University of Minnesota's St. Paul campus. The meeting, titled Hydrocarbon Contamination, was attended by about 100 members. Kevin Miller (Leggett, Brashears & Graham, Inc.), Bob Karls (Delta Environmental Consultants, Inc.), Marc Hult (USGS), and Olaf Pfannkuch (University of Minnesota) spoke on various aspects of practical and theorectical topics in hydrocarbon contamination. Linda Lehman and John Morley (both from L. Lehman and Associates, Inc.) coordinated and moderated the meeting. The meeting had something for each of us. Thanks to all who participated.

The association also held a joint meeting with TWIN CITIES GEOLOGISTS at the Stroh's Brewery on January 21. Priscilla Grew, the new Director of the Minnesota Geological Survey, spoke about her visit to the apatite mines on the Kola peninsula of the Soviet Union. A tour of the brewery preceded the meeting. The presentation was interesting and the beer was varied and abundant. Thanks to Dr. Grew and the TWIN CITIES GEOLOGISTS

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