

## Coming Up: PHCs and Organic Chemicals in Groundwater

The American Petroleum Institute and National Ground Water Association are sponsoring a conference on the prevention, assessment, and remediation of petroleum hydrocarbons (PHCs) and organic chemicals in groundwater, with special focus on gasoline oxygenates and long-term site management. Scheduled topics currently include site characterization and monitoring, gasoline oxygenates, natural attenuation processes, remediation technologies, and cleanup goals and site closures. The 4-day conference will be held in Costa Mesa, CA Aug. 19-22; the deadline for submitting abstracts is Jan. 10.

For more information, visit [www.ngwa.org/education](http://www.ngwa.org/education)

## GRA Hosts Symposium on Nitrate in Groundwater

The status of nitrate in groundwater was the subject of the sixth symposium in the Groundwater Resources Association (GRA) of California's series on groundwater contaminants, held Nov. 12- 13 in Fresno.

"Nitrate remains one of [California's] most widely-recognized groundwater contaminants, and the problem may be growing," said William V. Pipes, Principal Geologist of Geomatrix Consultants, Inc. of Fresno, and president of the San Joaquin Valley Branch of GRA.

"Although wastewater management and agricultural land use practices have contributed to successful nitrate management, recent investigations show that nitrate contamination may be more widespread and in deeper groundwater than previously thought," said Pipes, who served as the event co-chair.

The symposium featured collaborators from agriculture, public water supply, urban wastewater, academic, consultant and regulatory fields to share the most recent advances and knowledge on the status of nitrates in groundwater. The emphasis was on source identification, management,

basin-wide monitoring programs, discerning long-term trends, regulatory framework, public health and land use policy issues.

Specific topics that were covered at the symposium include: Overview of Legal/Regulatory Framework, Impacts on

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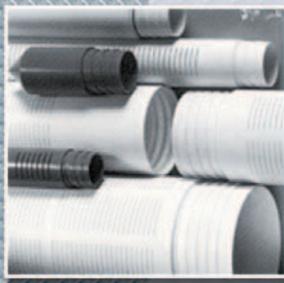
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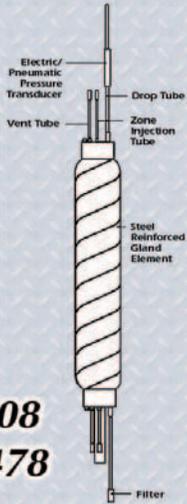
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Beneficial Use and Public Health, Nitrogen Cycling and Chemistry, Occurrence Transport and Monitoring, Source Controls and Treatment Strategies, Collaborative Approaches to Achieve Source Management, and a panel discussion entitled "A Manageable Threat or a Looming Disaster - Where do we go from here?"

Copies of the proceedings are available for \$55 from the GRA Web site.

Visit [www.grac.org](http://www.grac.org)

## NGWA Southwest FOCUS Conference Scheduled for February

The National Ground Water Association (NGWA) has organized a conference to focus on issues critical to groundwater in the Southwest. Scheduled for Feb. 20-21 in Phoenix, the conference includes two plenary sessions, plus focus sessions on innovative remediation technologies, artificial and natural recharge, groundwater modeling, emerging contaminants (1,4-

dioxane and perchlorates), and water supply planning. In addition, a field trip to a TCE-remediation project site and an artificial recharge facility will be offered on Feb. 19. The list of speakers reads like a Who's Who of Southwestern hydrology. This conference will be an excellent opportunity to find out what your colleagues throughout the Southwest are up to, and to learn from the experts.

Registration (\$350 for NGWA members, \$500 for non-members) is available by mail, phone, fax, or on-line. Visit [www.ngwa.org/education](http://www.ngwa.org/education) or call (800) 551-7379.

## Hydrogeology Presentations Abound at GSA Annual Meeting

The Geological Society of America (GSA) held its 2002 meeting in Denver in October, with a week-long program that offered 22 sessions, two short courses and three field trips sponsored or co-sponsored by the Hydrogeology Division. Sessions covered all aspects of hydrogeology, including environmental issues related to mining, specifics of individual aquifers and regions, modeling karst terrain, science and

sensible public policy, soil and vadose zone hydrology, contaminant migration, watershed processes, and chemical hydrogeology and geochemistry. The one-day short courses covered estimating rates of groundwater recharge and methods in applied contaminant geochemistry. Field trips were led to the Summitville mine to learn about Superfund activities there, to Glenwood Caverns for an introduction to CO<sub>2</sub> and H<sub>2</sub>S speleogenesis, and to a local well site to view borehole image logging. During the meeting, Dr. Thomas C. Winter of the U.S. Geological Survey in Denver was awarded the O.E. Meinzer Award in recognition of his outstanding contributions to hydrogeology during the past 30 years, specifically with regards to the hydrology of lakes and wetlands. Mary Jo Baedeker of the U.S. Geological Survey in Reston received the Hydrogeology Division's Distinguished Service Award for her many years of service to GSA and the hydrogeologic community.

Visit [gsahydrodiv.unl.edu](http://gsahydrodiv.unl.edu) to learn more about the GSA Hydrogeology Division.

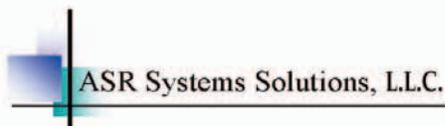


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