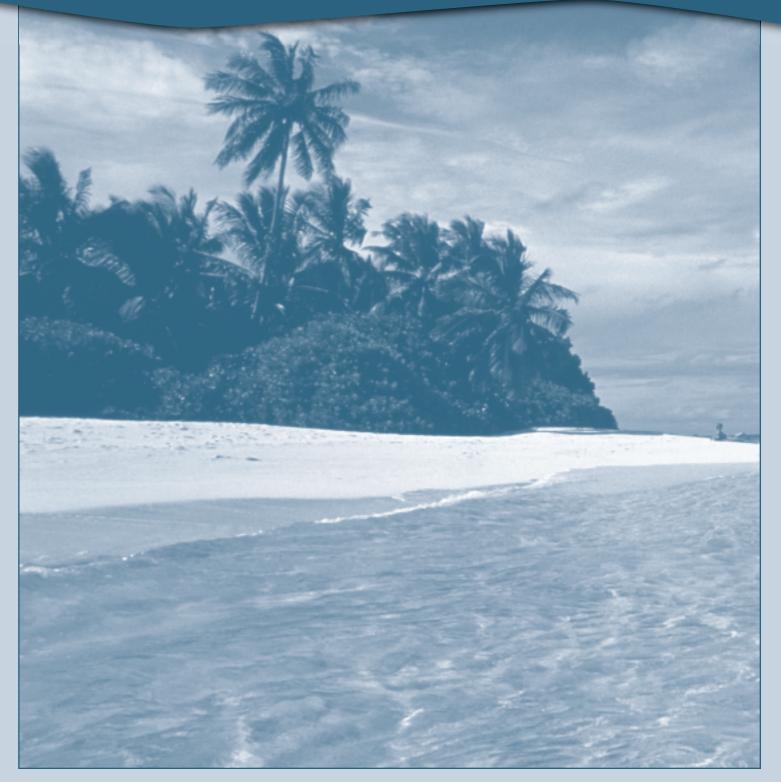


## 5th Conference on Hydrogeology, Ecology, Monitoring, and Management of Ground Water in Karst Terrains

February 23–24, 2009 Safety Harbor Resort and Spa Safety Harbor, Florida



## Monday, February 23, 2009

8:00 a.m5:00 p.m.	Registration
9:00-11:00 a.m.	Ground Water Extraction from Karst Aquifers
9:00–9:25 a.m.	Sixty MGD Quarry Dewatering: Engineering Approaches to Reducing Karstic Discharge at a Cement Quarry in Eastern Pennsylvania Richard Hisert, John Gansfuss, and Trevor Thomas, H2H Associates LLC
9:25–9:50 a.m.	Use of MODFLOW–DCM to Simulate Conduit/Diffuse Ground Water Flow in Three Karst Aquifer Systems Ronald Green, Southwest Research Institute
9:50-10:10 a.m.	Break
10:10-10:35 a.m.	Utilization and Protection of Large Karst Springs in Southeastern Europe and the Middle East Neven Kresic, Ph.D., MACTEC Engineering and Consulting Inc.; Zoran Stevanovic, University of Belgrade; Gultekin Gunay, Keystone Engineering; Ezzat Raeisi, Ph.D., Sharaz University
10:35-11:00 a.m.	The Impact of Karst Development on Peace River Flow Ron Basso, PG, Southwest Florida Water Management District
11:00 a.m3:45 p.m.	Karst Aquifer Characterization
11:00-11:25 a.m.	An Explorer's Perspective of Diving Underwater Caves at Weeki Wachee Spring and Other Localities in West-Central Florida David J. DeWitt, PG, Southwest Florida Water Management District
11:25-11:50 a.m.	Characterization of Conduit-Matrix Interactions at the Santa Fe River Sink/Rise System, Florida Elizabeth Screaton, Ph.D., University of Florida
11:50 a.m1:20 p.m.	Lunch (on your own)
1:20–1:45 p.m.	The Special Water Quality Issues of Karst, Dual Porosity, and Fractured Aquifers Arising from the Mobilization and Transport of Sediment Through Aquifers Malcolm Anderson, WMH
1:45-2:10 p.m.	<b>Peace River Karst and the Hawthorn Aquifer System</b> Michael T. Gates, PG, Southwest Florida Water Management District
2:10-2:35 p.m.	Clues to Connections: Geophysical Analysis to Aid in Identifying and Characterizing Flowpaths Direct and Indirect Lynn Yuhr, PG, Technos Inc.
2:35-3:00 p.m.	Characterizing Bedrock in Karst Formations Using Wireline Coring William H. Morrow, Parratt Wolff Inc.
3:00-3:20 p.m.	Break
3:20-3:45 p.m.	Ground Water Flow Through the Ozark Plateau Aquifer Carol M. Wicks, University of Missouri-Columbia
3:45-5:00 p.m.	Impact of Human Activities on Ground Water
3:45-4:10 p.m.	Impact of Human Activities on Ground Water Quality in a Karst Formation Todd K. Knause, Stanley Consultants Inc.
4:10-4:35 p.m.	A Brief History of Anthropogenic Impacts on Florida's Ground Water Systems: Recognized Shortcomings, and Identified Knowledge and Process Needs Stephen R. Lienhart, PE, URS Corp.; Paul O'Neil, PE, Southwest Florida Water Management District
4:35-5:00 p.m.	Joint Use of Surface Water and Ground Water of the Fergana Valley (Central Asia) as a Way of Overcoming Water Deficiency Yusup Khai Rysbekov, SIC ICWC of Central Asia

## Tuesday, February 24, 2009

8:30 a.m1:00 p.m.	Registration
9:00 a.m1:50 p.m.	Innovative Characterization Techniques
9:00-9:25 a.m.	Contributions to Hydrogeologic Research Through Cave Diving Exploration in Karst Aquifers David J. DeWitt, PG, Southwest Florida Water Management District
9:25–9:50 a.m.	Hydraulic Characterization of Karst Aquifers Through Quantitative Ground Water Tracing Todd Kincaid, H2H Associates LLC
9:50–10:15 a.m.	Break
10:15-10:40 a.m.	Hypogene Processes in the Edwards Aquifer in South-Central Texas: A Paradigm Shift in Understanding Deep Seated Karst Aquifers Geary M. Schindel, Edwards Aquifer Authority
10:40-11:05 a.m.	Microgravity Characterization of an Existing Wellfield in the Karst Region of the Yucatan Peninsula, Mexico Joel D. Peterson, PE, Montgomery & Associates
11:05–11:30 a.m.	Robotic Three-Dimension Characterization of Vulcanigenic Caves in Zacaton, Mexico Marcus Gary, Zara Environmental LLC
11:30 a.m1:00 p.m.	Lunch (provided)
1:00–1:25 p.m.	Special Utility of Flexible Liner Methods in Karst Formations Carl Keller, Flexible Liner Underground Technologies
1:25–1:50 p.m.	The Use of Multi-Electrode Electrical Resistivity and Multi-Channel Analysis of Surface Waves for Karst Characterization Eric Cross, N.S. Nettles & Associates Inc.
1:50-3:30 p.m.	Ground Water Modeling in Karst
1:50-2:15 p.m.	Determining Potential Contaminant Flowpaths in Karstic Environments: A Minimally Invasive Approach Paul Rollins, Willowstick Technologies LLC
2:15–2:40 p.m.	Numerical Modeling in Karst Aquifers: Examples from Florida and Pennsylvania Todd Kincaid, H2H Associates LLC
2:40-3:00 p.m.	Break
3:00-3:30 p.m.	Underwater Cave Diving Video
3:30-5:00 p.m.	Ecology and Vulnerability of Karst Aquifers
3:30–3:55 p.m.	Evaluation of Spring Flow, Bacterial Contamination, and Distribution of Fresh Water Resources in the Vicinity of Verrettes, Haiti Peter Wampler, Ph.D., RPG, and Andrew Sisson, Grand Valley State University
3:55–4:20 p.m.	Man-Made and Natural Mechanisms Leading to Catastrophic Collapse in the Karstic Epler Formation of Eastern Pennsylvania Richard Hisert, John Gansfuss, and Trevor Thomas, H2H Associates LLC
4:20-5:00 p.m.	Discussion and Concluding Remarks