

# Distinguished Lecturer Series

Groundwater—*Texas style*

Understanding and utilizing geology, hydrology, and environmental concerns for groundwater resources in a place of critical socioeconomics, law, and politics.

Featuring: **Dr. John (Jack) Sharp**  
Jackson School Of Geosciences, University of Texas-Austin



## DATE & LOCATION

Friday, June 21, 2013

Southwest Research Institute  
San Antonio, Texas

The lecture will run from 9:00 a.m.  
to 4:30 p.m.

## COST

\$25 for the day; includes lunch and supporting materials. \$15 for students. Payable at the door by cash or check.

## REGISTRATION

Deadline is Wednesday, June 19, 2013

Register and pay online:  
<http://jacksmartlecture.eventzilla.net>

For questions, contact Rachel Mitchell:  
[rmitchell@edwardsaquifer.org](mailto:rmitchell@edwardsaquifer.org) or  
Geary Schindel:  
[gschindel@edwardsaquifer.org](mailto:gschindel@edwardsaquifer.org)  
or call 210.222.2204 or 800.292.1047

## CO-SPONSORS

Southwest Research Institute  
South Texas Geological Society  
Texas Water Development Board  
UTSA – Center for Water Research  
Texas Bureau of Economic Geology  
Texas Groundwater Association  
Edwards Aquifer Research  
& Data Center  
UT- Austin, Jackson School  
of Geosciences  
Texas Water Conservation  
Association  
River Systems Institute,  
Texas State University  
National Cave and Karst  
Research Institute

## TOPICS TO BE COVERED:

- **Introduction**—aquifers, karstic aquifers, Texas systems
- **Edwards Aquifer Models**—evolution of thought/conceptual models
- **Sustainability of (karst) aquifers**—pumping stresses, climate variability, endangered species (GDEs) springflow augmentation, karstic evolution (e.g. Edwards Plateau), water law
- **Ethics**—personal experiences/observations
- **Decision support systems**—making science useful for decision-makers
- **Effects of urbanization**—karst urban environments
- **Regional flow systems and fracture controls**—Edwards, West Texas, Balmorhea system, Dell City system, Carlsbad area, WIPP site
- **Volcanogenic karst systems (VKS)**—Mexico, Australia, Turkey, Italy, and others.

## ABOUT THE PRESENTER

Dr. John M. (Jack) Sharp, Jr., is the Carlton Professor of Geology at the University of Texas at Austin. He has a Bachelor of Geological Engineering from the University of Minnesota and M.S. and P.h.D. degrees in Hydrogeology from the University of Illinois. He served as President of the Geological Society of America (GSA) in 2007-2008.

Sharp has received several awards and honors including the Meinzer Award for outstanding contributions to groundwater hydrology from the American Institute of Hydrology, and the Presidents' Award for outstanding international contributions to the development and application of groundwater science from the International Association of Hydrogeology.

He is a fellow of the GSA and the Alexander von Humboldt-Stiftung in West Germany. His research covers flow in fractured and carbonate rocks, thermohaline free convection, sedimentary basin hydrogeology, subsidence and coastal land loss, groundwater management, and the effects of urbanization. Sharp's hobbies include fishing, duck hunting, gardening, traveling to Australia, opera, UT football, and (before bad knees) handball.



[www.edwardsaquifer.org](http://www.edwardsaquifer.org)