

EDWARDS AQUIFER AUTHORITY

Distinguished Lecturer Series

Featuring: Dr. Nicholas Crawford of the Center for Cave and Karst Studies, Applied Research and Technology Program of Distinction, Department of Geography and Geology, Western Kentucky University

DATES & LOCATIONS

October 19, 2006
San Antonio, Texas

October 20, 2006
San Marcos, Texas

Sessions each day run from 9:00 a.m. to 4:30 p.m.

COST

\$20 for the day; includes lunch and supporting materials. Payable at the door by cash or check.

REGISTRATION

Deadline to register is October 17.

For more details or to register, call Elaine Vasquez at (210) 222-2204 or (800) 292-1047.

CO-SPONSORS

Texas Water Development Board
Edwards Aquifer Research & Data Center
UT-Austin Jackson School of GeoSciences
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Texas Bureau of Economic Geology
Texas Groundwater Association
Texas Water Conservation Association

TOPICS TO BE COVERED

Dr. Crawford will present two, one-day workshops on environmental issues in karst. The workshops will cover a wide range of issues focused on planning, managing and investigating human impacts to karst aquifers.

Discussions will focus on vulnerability of karst aquifers including:

- Hazardous materials emergency response; Environmental investigation design for point and non-point sources;
- Groundwater monitoring system design; Case histories; and
- Karst related regulations and procedures such as: Sinkhole ordinances; Hazardous materials regulations; UST systems in karst; Engineering controls; and On Site Sewage Facilities.

ABOUT THE PRESENTER

Dr. Crawford has won numerous local and national awards and honors for his teaching and research including the 2005 National Award for Outstanding Contributions to Karst Science by the Karst Waters Institute; induction into the Geological Society of America Hall of Fame; AIPG Outstanding Geologist Award for Kentucky, National Speleological Society Honorary Life Membership Award; WKU Outstanding Achievement in Research; WKU Professional Public Service Award. Dr. Crawford has published more than 400 publications and technical reports dealing primarily with groundwater contamination in karst aquifers and performed more than 2000 tracer tests and is the founder of the first cave and karst center in the United States.

www.edwardsaquifer.org



Short Bio

Nicholas Crawford, Ph.D., P.G.

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1. Honors and awards *include (but are not limited to):*

- 2005 National Award for Outstanding Contributions to Karst Science, - Karst Waters Institute.
- 2005 Geological Society of America Hall of Fame
- 1998 Kentucky Outstanding Geologist Award- American Institute of Professional Geologists.
- 1994 National Speleological Society Honorary Life Membership Award for his work in karst education and protection of caves and karst groundwater resources. NSS's highest award.
- 1985 Outstanding Achievement in Research– Western Kentucky University's highest award for research.
- 1996 Professional Public Service Award – Western Kentucky University's highest award for public service.
- 1990 National Silver Seal Award for groundwater protection - National Council of State Garden Clubs
- Fellow in the National Speleological Society (NSS)
- Two different Certificates of Merit awards presented by the NSS for his karst education programs.

2. Recognition nationally as expert in the field of karst hydrogeology

- Crawford has written over 439 publications and technical reports dealing primarily with groundwater contamination of karst aquifers.
- He has received over 300 grants and contracts for hydrological research on environmental problems of karst regions.
- Dr. Crawford has performed over 2000 dye traces and has worked on numerous groundwater contamination problems throughout the United States for private firms and for federal, state, and local government agencies, including NASA, EPA, Fort Knox, and many others.

- He is a coauthor of the book, *Living With Karst*, an award-winning book by the American Geological Institute. He also wrote an article entitled “Water Tracing History” which was published in the *Encyclopedia of Cave and Karst Science*, Fitzroy Dearborn, London, England.
- Dr. Crawford is a Certified Professional Geologist in four states. He has served as an expert witness in court cases involving karst hydrogeology and has been quoted in *National Geographic Magazine*, *Time Magazine*, *USA Today*, *The New York Times*, *The London Times*, *Chicago Tribune*, and *The Wall Street Journal* about caves and karst.

3. Founder of first cave and karst center in the United States

As a Western Kentucky University professor in 1978, Dr. Crawford founded the first cave and karst center in the United States, the Center for Cave and Karst Studies (CCKS). This Center has excelled in karst education and applied karst environmental problem-solving, and it is one of the Centers in the Applied Research and Technology Program of Distinction.

4. Center’s cave and karst research is applied to environmental problem solving

Dr. Crawford has extensively applied the use of geophysical and tracer techniques for studying and understanding karst. These techniques include dye tracer investigations of groundwater flow, microgravity and electrical resistivity. The Center’s research and the ensuing application of these techniques to environmental problem-solving have resulted in a better understanding of karst aquifers and in state-of-the-art practices for building and developing on karst.