



# Everglades Geological Society

# BULLETIN

Volume 5, Number 5

January 1999

**Meeting This Month:** Monday, January 18, 1999  
6:00 P.M. at the Morgan House Resturant & Trading Post  
(social hour starts at 5:00)

**Speaker:** AAPG Distinguished Lecture  
Dr. John R. Underhill

**Topic:** Role of Propagating Normal Faults in  
Controlling Sequence Variability and  
Sediment Dispersal in Rift Systems

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AAPG Distinguished Lecture

**Everglades Geological Society**  
**P.O. Box 61684**  
**Fort Myers, FL 33906**

The Everglades Geological Society is an organization which seeks to promote interest in and understanding of Geology and the related Earth Sciences, and to provide a common organization for those individuals interested in geology and the related earth sciences.

The Bulletin is a monthly (September-June) publication of the Everglades Geological Society, Inc.

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**EGS MEETING THIS MONTH AT:**



**2207 First St. Fort Myers, Florida 33901 • 337-3377**

**MONDAY, JANUARY 18, 1999**

**CALL FOR PAPERS**

**Southwest Florida  
Water Resources Conference:  
Ground & Surface Water Resources  
of Lee County and the  
Caloosahatchee River Basin**

November 4-6, 1999  
Fort Myers, Florida

This years conference will expand and update the pioneering work in southwest Florida water resources of D. H. Boggess.

The planned conference will feature 3 sessions:

- I Historical overview & Groundwater update
- II Surface water & groundwater-surfacewater interaction
- III Planning alternatives & Policy

**Conference Hosts:**

Florida Section, American Water Resources

# **Role of Propagating Normal Faults in Controlling Sequence Variability and Sediment Dispersal in Rift Systems**

**John R. Underhill, PhD.**  
The University of Edinburgh, Scotland

## **ABSTRACT**

Fieldwork in Oligo-Miocene clastic deposits of the Gulf of Suez rift, Sinai, Egypt demonstrates the important role that fault growth has on the variability of syn-sedimentary sequence architecture. As fault segments propagate vertically and laterally they affect stratal geometries, basin physiography, the location of sedimentary entry points and sediment dispersal patterns. As such their growth not only influences sequence stratigraphic development of the basin fill but also controls the external form and internal character of subtle hangingwall traps. Vertical propagation of buried (blind) structures leads initially to the development of monoclinical flexures marked by the progressive rotation of strata, occurrence of syn-sedimentary unconformities and creation of traps adjacent to the controlling faults. Subsequent surface break by faults leads to a major change in cross-section geometry with the formation of a conventional half-graben wedge. Further complexity occurs due to the lateral propagation of fault segments since it leads to overlap, interference and linkage, all of which have the potential to influence basin gradients and sediment transport pathways. In Sinai, relay ramps initially act as the main conduits through which sediment reaches hangingwall depocenters. Although lateral propagation leads to their modification, sediment supply is not always terminated and supply may persist even after complete fault linkage has been achieved. Findings in other rift systems like the North Sea Jurassic replicate the Sinai studies. As such the results may have far-reaching consequences for sequence stratigraphic predictions and understanding the site, development and nature of hangingwall stratigraphic plays.

## **BIOGRAPHY**

Dr. Underhill is Professor and Chair of Stratigraphy at the University of Edinburgh, Scotland. He received his B.Sc. in geology from Bristol University in 1982, and his Ph. D in Geology from The University of Wales in 1985. He has been a lecturer and professor at the University of Edinburgh since 1989. Prior to joining the University of Edinburgh, John was with Shell International from 1985 to 1989.

John did his Ph.D. dissertation work on the Neogene and Quaternary Tectonics and Sedimentation in western Greece. He

# APPLICATION FOR MEMBERSHIP

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SEPM AGU

Other: \_\_\_\_\_

Type of AAPG Membership (Circle): None

Jr. Student Active Associate

Sponsor's Signature: \_\_\_\_\_

*of the following committees of the Everglades Geological Society:*

1. Academic Liaison Committee
2. Advertising Committee
3. Field Trip Committee
4. Finance Committee
5. Membership Committee
6. Publications Committee
7. Technical Program Committee

## ANNOUNCEMENTS

### **PG Board Workshop Scheduled**

**Date & Time:** Thursday February 18, 1999, 1:00 pm

**Location:** Board Conference Room, Department of Business and Professional Regulation, 1940 North Monroe Street, Tallahassee, Florida.

The Board of Professional Geologists is planning to conduct a workshop to discuss the kinds of work that must be done by a professional geologist and the types of documents that must be signed and sealed by a professional geologist. The Board has requested that the Florida Association of Professional Geologists (FAPG) solicit participation from its membership for this important workshop. The workshop is intended to cover the work and work products prepared by geologists employed in both the private and public sectors. The Board would like input from all Florida geologists in advance of the workshop concerning specific issues to address at this workshop. This meeting is important to all FAPG members and to all licensed professional geologists working in Florida. The workshop is planned to coincide with the next Board of Geologists meeting on Friday February 19, 1999 (same location). Please mark this date on your calendar and plan to attend. If you are unable to attend, please plan to provide comments to the board in advance of the meeting. We will post additional information about this workshop on the FAPG web site (<http://www.fapg.org/>) as it becomes available.

For further information, or to provide input, contact Rand Edelstein, FAPG President, at (850) 349-2874, or Bob Harris, FAPG Executive Director, at (850) 222-6000. The FAPG Message Board is also available for further discussion and comment on this subject.

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### **USF Geology Department Spring 1999 Colloquium Speakers**

**Time & Location:** Friday, 1:00 pm Geology Department Conference Room (SCA 534)

- 1/15 The New Geologic and Geomorphic Maps of Florida  
Tom Scott, Assistant State Geologist, Florida Geological Survey
- 2/5 Nutrients and Carbonate Sedimentation: Why Should a Geologist Care?  
Pam Muller, USF St. Pete
- 2/10 Mineralogy in the Lung: Geochemical Mechanisms of Mineral Induced Disease  
George D. Guthrie, Western Michigan University
- 2/19 Geology Alumni Society Special Lecture #2 (TBA)

## CALENDAR

1999

**January 10-15**, American Meteorological Society 79th Annual Meeting & Exhibition, Dallas, Texas. Information: AMS, 45 Beacon Street, Boston, MA 02108, (617) 227-2425, fax 617-742-8718, hallgren@ametsoc.org.

**January 19-21**, Applications of Remote Sensing and GIS for Disaster Management, Washington, D.C. Information: Greg Shaw, George Washington University VA Campus, 20101 Academic Way, Suite 220B, Ashburn, VA 20147-2604, (703) 729-8271, fax 703-729-8272, glshaw@gwu.edu, <http://www.gwu.edu/~cms/gis/>.

**February 7-10**, International Society of Explosives Engineers 25th Annual Conference on Explosives and Blasting Technique, Nashville, Tennessee. Information: Lynn Mangol, 29100 Aurora Rd., Cleveland, OH 44139, (440) 349-4004, fax 440-349-3788, <http://www.isee.org>.

**March 1-3**, 13th International Conference and Workshops on Applied Remote Sensing, Vancouver, British Columbia. Information: ERIM Geologic Conferences, Box 134008, Ann Arbor, MI 48114-4008, (734) 994-1200, ext. 3234, fax 734-994-5123, wallman@erim-int.com, <http://www.erim-int.com/CONF/conf.html>.

**Mar. 1-4** Society for Mining, Metallurgy, and Exploration, ann. mtg., Denver, Colo. (SME, 8307 Shaffer Parkway, P.O. Box 625002, Littleton, Colo. 80162-5002. Phone: 303/973-9550. E-mail: smenet@aol.com)

**March 25-26**, GSA Southeast Section Meeting, Athens Classic Center, Athens, Georgia. Submit completed abstracts to Michael F. Roden, Dept. of Geology, University of Georgia, Athens, GA 30602-2501, (706) 542-2416, mroden@uga.cc.uga.edu. (Abstract deadline: December 14, 1998.)

**Mar. 25-28** National Earth Science Teachers Association, ann. mtg., Boston, Mass. (NESTA, 2000 Florida Ave., N.W., Washington, D.C. 20009. Phone: 202/462-6910. Fax: 202/328-0566. E-mail: fireton@kosmos.agu.org)

**April 10-14**, 7th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst, Harrisburg, Pennsylvania. Information: Gayle Herring, P. E. LaMoreaux and Associates, Inc., 106 Administration Rd., Oak Ridge, TN 37830, (423) 483-7483, fax 423-483-7639, pelaor@usit.net, <http://www.uakron.edu/geology/karstwaters/7th.html>.

**Apr. 11-14** American Association of Petroleum Geologists, ann. mtg., San Antonio, Texas. (AAPG Conventions Dept., P.O. Box 979, Tulsa, Okla. 74101-0979. Phone: 918/560-2679. Fax: 918/560-2684)

**May 26-28**, Geological Association of Canada-Mineralogical Association of Canada Joint Annual Meeting, Sudbury, Ontario. Information: P. Copper, Dept. of Earth Sciences, Laurentian University, Sudbury, Ontario P3E 2C6, Canada, (705) 675-1151, ext. 2267, fax 705-675-4898,

**June 20-24**, Coastal Sediments '99: Scales of Coastal Sediment Motion and Geomorphic Change, Long Island, New York. Information: Nicholas C. Kraus, USAE Waterways Experiment Station, Coastal & Hydraulics

**June 26-July 1**, Clay Minerals Society 36th Annual Meeting, Purdue University, West Lafayette, Indiana. Information: Patricia Jo Eberl, Clay Minerals Society, P.O. Box 4416, Boulder, CO 80306, (303) 444-6405, fax 303-444-2260, peberl@clays.org. November 9, 1998

**Sept. 12-15** American Association of Petroleum Geologists, int'l. mtg., Birmingham, England. (AAPG Conventions Dept., P.O. Box 979, Tulsa, Okla. 74101-0979. Phone: 918/560-2679. Fax: 918/560-2684)

**Oct. 5-8** American Institute of Professional Geologists, ann. mtg., Anchorage, Alaska. (AIPG, Suite 103, 7828 Vance Dr., Arvada, Colo. 80003. Phone: 303/431-0831. Fax: 303/431-1332. E-mail: aipg@netcom.com)

**Oct. 25-28** Geological Society of America, ann. mtg., Denver, Colo. (Becky Martin, GSA Meetings Department, Box 9140, Boulder, Colo. 80301-9140. Phone: 303/447-2020, ext. 164. Fax: 303/447-1133)

2000

**Apr. 6-9** National Earth Science Teachers Association, ann. mtg., Orlando, Fla. (NESTA, 2000 Florida Ave., N.W., Washington, D.C. 20009. Phone: 202/462-6910. Fax: 202/328-0566. E-mail: fireton@kosmos.agu.org)

**Apr. 16-19** American Association of Petroleum Geologists, ann. mtg., New Orleans, La. (AAPG, 1444 So. Boulder Ave., P.O. Box 979, Tulsa, Okla. 74101-0979. Phone: 918/560-2639. Fax: 918/560-2626)

**May 7-11** Salt Symposium, The Hague, The Netherlands. (Secretariat Organizing Committee 8th World Salt Symposium, PO Box 25, 7550 GC Hengelo Ov, The Netherlands. Phone: 31 74 2443908. Fax: 31 74 2443272. E-mail: Salt.2000@inter.NL.net)

**Oct. 11-15** American Institute of Professional Geologists, ann.mtg., Milwaukee, Wis. (AIPG, Suite 103, 7828 Vance Dr., Arvada, Colo. 80003. Phone: 303/431-0831. Fax: 303/431-1332. E-mail: aipg@netcom.com)

**Nov. 13-16** Geological Society of America, ann. mtg., Reno, Nev. (GSA Meetings, Box 9140, Boulder, Colo. 80301-9140. Phone: 303/447- 2020, ext. 164. Fax: 303/447-1133)

### **EGS MEETING CALENDAR 1999**

**January 18**  
**February 16**  
**March 16**  
**April 20**