Everglades Geological Society BULLETIN

Volume 4, Number 9 May 1998

Canoe Trip
May 16th
Please call
Buzz Walker
To confirm
Attendance
432-9494

Next Meeting: May 19th, 1998

6 :30 P.M. at the French Connection
(social hour starts at 5:30)
Speaker: Jack Breland
Topic: (abstract unavailable at press time)

INSIDE THIS ISSUE

Paleofest98

1st Announcement

Back by popular demand, the Florida Museum of Natural History and the Florida Paleontological Society are pleased to announce that Paleofest98 will be held on the University of Florida campus in Gainesville on **Friday. November20 & Saturday.November 21**

Paleofest98 will be a celebration of Florida paleontology and gathering of folks interested in vertebrate, invertebrate, and plant fossils.

Paleofest98 activities (timing subject to final arrangements) will include:

Friday

- Public ledure by noted dinosaur paleontologist Jack Homer (Museum of the Rockies), *Co-sponsored by the UF Center for the Performing Arts.*
- EvenIng tour of exhibits and behind-the-scenes at Powell Hall, the Florida Museum of Natural History's new education and exhibition center.
- Welcome party
- Fossil and club displays

Saturday

- Welcome talks and orientation lectures
- Fossil and club displays
- Field trips and workshops
- Curators tour of the spectacular exhibit *Elephants!*

Banquet and awards ceremony

Auction, with proceeds going to support fossil exhibits at the FLMNH

For further information please contact:
Vicki Henderson, Paleofest98 Coordinator
Florida Museum of Natural History
Powell Hall P. 0. Box 112710
University of Florida
Gainesville FL 32611-2710
Phone: 352-846-2000, ext. 204, email: henderson@flmnh.ufl.edu.

ELECTION RESULTS

PRESIDENT **PAUL ATTWOOD**

VICE PRESIDENT **CLYDE DABBS**

SECRETARY **ELIZABETH SHAWKEY**

TREASURER **JOHN GRIMM**

EDITOR **GORDON KENNEDY**

DIRECTOR **JACK McCOY**

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.

Editor
Clyde Dabbs
clyde.dabbs@juno.com

PRESIDENT'S MESSAGE

Dan Aquaviva

The ballots are in and the new slate of Officers for the next EGS year is presented elsewhere in this edition. Special thanks to Duane Dungan and Lloyd Fox for their efforts throughout the election process and congratulations to all of the new EGS Officers. I'm sure they'll reenergize and bring a new sense vitality to the Society as they replace some of us tired old fossils in the coming year. At the same time, we should recognize the many contributions
of the current Officers, particularly the tremendous efforts month after month of our editor, Clyde Dabbs.

The Peace River canoe trip is still on for the 16th of May. Call Buzz Walker for details. Although some of us cannot be there, we hope that those who do attempt to navigate the mighty Peace have low water and good fossil hunting conditions.

Until next month,

Dan

EGS Meeting CALENDAR

1998

May 19	**EGS Meeting**

CALENDAR

Florida Section AWRA
Orlando
May 15

AAPG Annual Meeting
Salt Lake
May 17-20

Am Soc. for Surface Mining and Reclamation - 15th National Meeting
St. Louis
May 17-22

GSA Rcky Mtn Sec. Mtg.
Flagstaff
May 25-26

Soc. of Professional Well Log Analysts
Keystone, Co.
May 25-28

Am. Geophysical Union
Spring Meeting
Boston
May 26-29

AWRA Specialty Conference on Rangeland Management and Water Resources
Reno
May 26-30

Clay Minerals Society
35th Annual Meeting
Cleveland
June 6-11

AWWA Annual Conference and Exposition
Dallas
June 21-25

Gondwana 10 - Event Stratigraphy of Gondwana
Cape Town, S. Africa
Jun. 28 - Jul. 4

AWRA Third International Symposium on Tropical Hydrology
San Juan, P.R.
July 12-16

Summit of the Americas '98: Energy & Environment
Miami Beach
July 14-17

Florida Section AWRA
Key West
July 30

Oil & Gas Exploration in North America - Mid-Continent Symposium
Wichita, Ks.
August 11-13

Georgia Section AWWA
Atlanta
August 16-19

Assessing and Managing Health Risk for Drinking Water Contamination
Santiago, Chile
Sept. 7-10

Coastal Environment 1998
Cancun
Sept. 8-10

Fluid Flow in Carbonates
Door Cnty, Wis.
Sept. 20-24

Membranesin Drinking and Industrial Water Production
Amsterdam, Neth.
Sept. 21-24

Geologic Record of Natural Disasters
Portland, Or.
Oct. 4-8

Fifth Intl. Conf. on Remote Sensing for Marine and Coastal Environments
San Diego
Oct. 5-7

Water China '98
Beijing
Oct. 13-17

Eighth International Williston Basin Symposium
Regina, Sask.
Oct. 19-21

Precambrian-Paleozoic Interactions Between Laurentia and Gondwana
Oaxaca, Mex.
Oct. 19-23

GCAGS Annual Convention
Corpus Christi
Oct. 21-23

Integrated Surface Ground Water Model Project

Clyde Dabbs

INTRODUCTION

The Central and Southern Florida (C&SF) Project, first authorized by Congress in 1948, is a multi-purpose water resources project. The authorized purposes of the project include: flood control, regional water supply for agricultural and urban areas, prevention of salt water intrusion, water supply to Everglades National Park, preservation of fish and wildlife, recreation, and navigation. In 1992 Congress authorized a Comprehensive Review Study (Re-study) of the C&SF Project. The plan has five main elements: land and water management, science, infrastructure, land acquisition, and public information and education. This study focuses on the westernmost component of the re-study, The Caloosahatchee River Basin.

CALOOSAHATCHEE BASIN

The Basin is underlain by three aquifer systems: the Surficial Aquifer System (SAS) the Intermediate Aquifer System and the Floridan Aquifer System (Smith 1990). This study focuses upon the SAS and the interaction of the SAS with surface water. The Caloosahatchee River receives water from Lake Okeechobee, runoff from the watershed and baseflow from the SAS. The river in turn supplies water for public supply, agriculture, and the environment. A linked ground-water/surface-water model will be used to develop a water budget for the Caloosahatchee under current usage and predict the effects of some of the water management alternatives being proposed. The model will serve as a predictive tool to determine what effect changes in the physical system or in water deliveries from the Lake will have on water available to the users of water from the Caloosahatchee.

SURFACE WATER GROUND WATER INTERACTION

Ground water interacts with surface water in a variety of physiographic and climatic landscapes. Recently, improved numerical methods for simulating the interconnection of groundwater and surface water have been developed, especially with respect to simulating the surface water component.An Integrated Surface Ground Water Model ISGM for the Caloosahatchee Basin hydrologic system is being developed. The model will be used to enable South Florida Water Management District staff to assess many planning scenarios for their effect on the interaction between surface water and ground water. The model is being developed based on the MIKESHE and MIKE 11 model code developed by the Danish Hydraulic Institute.

Summary

This approach recognizes that the water and land resources of a basin forms a unity and hence must be treated as such if future conflicts over water utilization are to be avoided. River basin management and planning for a basin may broadly be conceived as an attempt to identify the best possible utilization of the available water resources given certain soil, land, agricultural, engineering, and social constraints. Due to the multitude of water resources development options which often exists, conflicts over the utilization of a particular source between individual schemes and the interdependency between water, soil and land use, river basin management is indeed a complex task. The planning for future water developments within a basin thus requires that conclusions originating from the study of individual aspects are gathered and brought together in a framework capable of undertaking an integrated analysis. The Integrated Surface-water Ground-water Model, a basin wide representation of water availability and potential users of water, offers such a framework.

Media Training Workshop

Do you know how to behave effectively in an ambush interview? Do you know how to tailor your message for maximum effectiveness when dealing with the media? Do you see the media as useful to your work? Do you make an effort to accommodate the needs of reporters?

If you answered a resounding "NO!" to any of those questions, you may want to take the opportunity of enrolling in this special one-day pre-meeting workshop at the upcoming American Association of Petroleum Geologists conference in Salt Lake City. The workshop will be held Sunday, May 17, from 9 am. to 2:30 p.m.

You will learn how to define and deliver your message and how to behave in various interview settings, your rights when dealing with reporters, and the importance of poise and body language. You will have an opportunity to be filmed in a mock interview setting, so you can see how you look and sound on-camera. And you will gain insights into the workings of the media.

The cost is *$50* per person and enrollment is limited to 20 people. The price will include transportation to and from the convention site, continental breakfast, snacks, and a video tape of yourself in a practice session. Contact Linda Bennett, Utah Geological Survey, (801) 537-3300, to enroll. MasterCard and Visa accepted. This workshop is sponsored by UGS and the AAPG Division of Professional Affairs.

MAY CONTEST

Name three of the seven water quality parameters for which regulatory criteria would be established under the proposed EPA Disinfectant/Disinfection Byproduct Rule.

This Month's Prize: Raised Relief Map of the United States.

Remember you must be present at the Monthly Meeting to win. Board members not eligible.

Answer to April Contest: James Hutton.

Winner of April Contest: Gordon Kennedy.