



*Everglades Geological Society*

# **BULLETIN**

Volume 8, Number 6

February 2002

**Meeting This Month:** February 19, 2002  
6:00 P.M. at the French Connection Cafe  
(social hour starts at 5:00)

**Speaker:** Thomas Scott, PhD  
Florida Geological Survey

**Topic:** Water Sustainability in Florida –  
Research, Policy and Geologists' Responsibilities

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*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 publication of the Everglades Geological Society, Inc.

Editor  
Terry Bengtsson  
[tbengts@sfwmd.gov](mailto:tbengts@sfwmd.gov)

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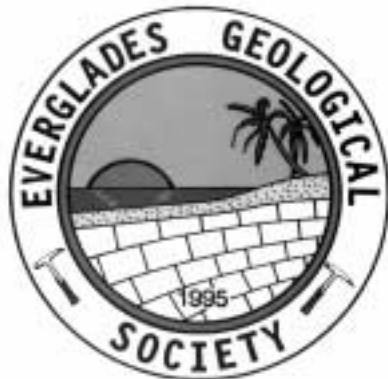
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# EGS MEETING THIS MONTH

## TUESDAY

### February 19, 2002

**The French Connection Cafe**  
2288 First Street (at Jackson Street)  
Fort Myers, Florida  
(941) 332-4443

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### *Members Come Join Us!*

The new year's lineup of guest speakers has been arranged thanks to our Vice-President, Amy Tobias.

DATE	SPEAKER	TOPIC
2/19/02	Tom Scott FGS, Tallahassee	Water Sustainability in Florida
3/19/02	Bob Baker Personic Corporation	to be announced
4/16/02	Sarah Kruse USF, Tampa	Ground Penetrating Radar
5/21/02	Michael Duever SFWMD	Hydrologic Concerns for Wetland Protection

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**JANUARY'S FIELD TRIP WAS EXCELLENT!**  
**THANKS TO**  
**Tom Scott & Harley Means**

. see page 5

**~ T-SHIRTS ARE IN ~**  
**BRING MONEY TO MEETING**

## Canoe Trip planned for March 9<sup>th</sup>,

With the Florida Association of  
Environmental Professionals (FAEP)

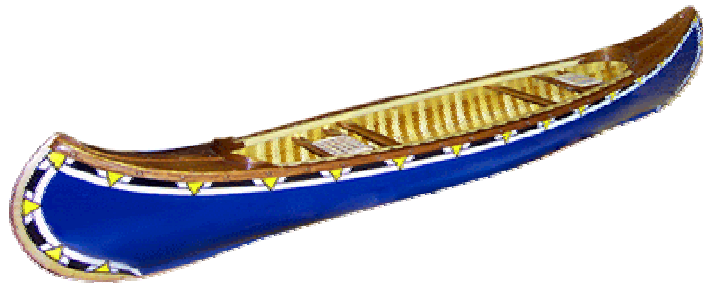
Canoe the Peace River from  
Brownville to Arcadia, bout a 4 hour  
trip. Hey here's water in the river,  
too.

### Meet at the Canoe Outpost 9:00 AM

I-75 Exit 29/U.S. 17 from SW  
Florida/Punta Gorda, Ft. Myers,  
Naples: North on U.S. 17 to Arcadia.  
At fourth traffic light in Arcadia turn  
left onto SR 70. Go west on 70 two  
miles to campground and turn right.  
(Approx. travel time: From Punta  
Gorda: 45 mins., Ft. Myers: 1 hour,  
Naples: 2 hrs.)

Bring a picnic lunch or snacks and plenty to drink while on  
the river. After the canoe trip the group will meet at Slim's  
Deep South Bar-B-Q for dinner.

Please call Laura Montes de Oca at 338-2929 to reserve your  
spot or for more information. The website address is:  
[www.canoeoutpost.com](http://www.canoeoutpost.com)



## CANOE

### *~Note to Members~*

Sign-in sheets will be used at each meeting as attendance  
may be used for continuing education credits. . Field Trip  
participation can also contribute continuing education  
credits.

Dear EGS members:

Jack Breland is still in Mississippi with his mother  
helping to take of family matters. Jack's father  
has past on after being in poor health for some time.  
The EGS offers its condolences to Jack and his family,  
and wish him well.

## ***THIS MONTH'S TOPIC***

### Water Sustainability in Florida – Research, Policy and Geologists' Responsibilities

By

Thomas M. Scott, PhD, PG

Florida Geological Survey

Tallahassee, Florida

Florida is a water-rich state. Florida relies heavily on groundwater from the Floridan aquifer system (FAS), although the intermediate and surficial aquifer systems are utilized in limited areas. It is estimated that more than two quadrillion gallons of fresh water are in the FAS. Approximately four trillion gallons of water recharge the FAS each year which is approximately 0.2% of the total fresh water in the FAS. Three trillion gallons are naturally discharged annually, mostly via Florida's more than 600 springs (0.15%). One trillion gallons per year are withdrawn by pumping (0.05%). However, available fresh groundwater is not evenly distributed throughout the state. In order to provide adequate supplies of fresh water, alternative supplies from mineralized waters and subsurface storage of excess surface water are being used.

Geologists are now being challenged to better define the state's aquifer systems in order to supply fresh water, to facilitate subsurface storage and recovery of fresh water (ASR), disposal of wastewater and the use of mineralized waters. Among the issues facing our profession are: 1) the continuity of confinement within the FAS; 2) the continuity of the intermediate confining unit; 3) how will the FAS be affected by the injection of billions of gallons of fresh water per day; 4) how does fresh surface water react with aquifer materials to affect water quality; and 5) if untreated to partially treated surface water is placed in the FAS, what is the fate of bacteria, algae and other organisms. These questions and others must be answered in order to protect the environment and aquifer systems while providing the necessary water supply for Florida's burgeoning population. Geologists have an important opportunity to provide input into the policies being developed in relation to the use and protection of Florida's water resources.

### **BIOGRAPHY**

Dr. Scott has his undergraduate degree from the University of South Florida and graduate degrees from Eastern Kentucky and Florida State University. He was awarded the doctorate degree in 1986 and the research was published by the Florida Geological Survey (FGS) as Bulletin 59 "The lithostratigraphy of the Hawthorn Group (Miocene) of Florida" in 1988. He has worked with the FGS since 1974. During Dr. Scott's tenure with the FGS, he has published more than 130 papers, maps and abstracts. Dr. Scott's recent publications include the 2001 Geologic Map of Florida and an Open-file Report on the first magnitude springs in Florida (to be published in late January, 2002). He is working on the Florida Springs Initiative, a new geomorphic map of the state and a publication on Lake Jackson, a disappearing karst lake near Tallahassee.

Dr. Scott has served in various officer positions in the Southeastern Geological Society, American Institute of Professional Geologists Florida Section, Southeastern Section of the Geological Society of America, and the Florida Association of Professional Geologists. Dr. Scott currently serves on the Florida Board of Professional Geologists as the designee of the State Geologist.



**GOOD VIEWS**



## Everglades Geological Society

Meets on the Third Tuesday of each month at the French Connection Cafe on First St. in downtown Fort Myers, Florida. Social hour starts at 5:00 PM. The meeting begins at 6:00 PM. No meetings are held in July or August



### EGS MEETING CALENDAR 2002

February 19

March 19

April 16

May 21

### Join Everglades Geological Society

Application forms are available:  
at meetings, by mail and on our web site.  
<http://www.geocities.com/CapeCanaveral/1356>

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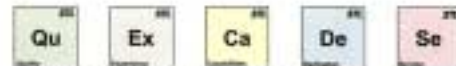


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