



Everglades Geological Society

BULLETIN

Volume 8, Number 3

November 2001

Meeting This Month: November 20, 2001
6:00 P.M. at the French Connection Cafe
(social hour starts at 5:00)

Speaker: Douglas C. Peters,
Peters' Geoscience
Golden, Colorado

Topic: Remote Sensing Applications to Environmental Issues at Abandoned
Metal Mines and Mills in Idaho and Utah

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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.

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EGS Officers

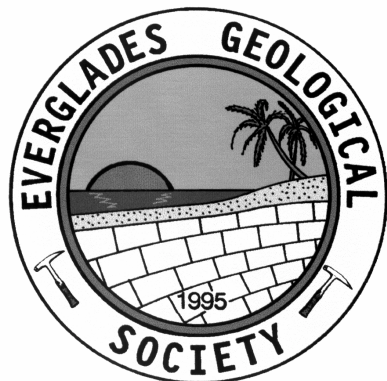
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EGS MEETING THIS MONTH
TUESDAY
November 20, 2001

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

Members Come Join Us!

This fall's lineup of guest speakers is shaping up quiet nicely thanks to our Vice-President, Amy Tobias.

DATE	SPEAKER	TOPIC
11/20/01	Douglas C. Peters Peters' Geoscience Golden, Colorado	Remote Sensing Applications to Environmental Issues at abandoned Metal Mines and Mills in Idaho and Utah
12/18/01	Barclay Shoemaker USGS, Miami	Simulating Saltwater Intrusion in a Shallow Semi-confined Aquifer in Southwestern Florida
1/15/02	Philip Kramer University of Miami	to be announced
2/19/02	Tom Scott FGS, Tallahassee	Lake Jackson Sinkhole Explorations
3/19/02	to be announced	
4/16/02	Sarah Kruse USF, Tampa	Ground Penetrating Radar

~Note to Members~

Sign-in sheets will be used at each meeting as attendance may be used for continuing education credits.

PRESIDENT'S MESSAGE

By Jack Breland

Dowserjac@msn.com

Dear EGS members:

I am writing to you from Leakesville, Mississippi. I am up here visiting my parents. They are not in the best of health, and I try to get up here as much as I can these days.

Leakesville is geographically located approximately 45 miles north of Biloxi, Mississippi. It is located within the Pascagoula tributary drainage system. I am staying at my family's hunting camp on a secondary tributary called the Chickasahay River. Most of the outcrops within this area are Citronelle and Pascagoula Formations. The camp is located two bends from the type locality for the Pascagoula Formation. The Chickasahay River is a mature stream, and the camp is set on an ancient sand bar surrounded by tall oaks and pine trees. The area has rolling hills and oxbow lakes. Several lakes have silted in, and tall cypress trees protrude enormously up into the air. We call one oxbow lake the Horseshoe Lake. It has recently been refreshed with the high waters from the Chickasahay River. I like to take a few hours when this flooding occurs to see what kinds of fish have been trapped by the receding waters of the river. It is hunting season, and the sounds of gunfire and yelping dogs can be heard from miles around. It is certainly a time of inward reflection.

I would like to thank you all for coming out to listen to Ronald Reese of the USGS in Miami. His review on some of the aquifer storage and recovery (ASR) wells in South Florida was very educational. The data he gathered from these wells has been a tedious process. The information obtained from comparing these wells has narrowed the scope of parameters needed to

determine potential areas for a successful ASR program. If there is one thing that I came away with during his presentation, it is the fact that a lot of the cycle data from ASR wells in South Florida is still being assembled. I would like to thank our vice-president, Amy Tobias, for scheduling another great speaker. Good work, Amy! If the last two speakers are an indication of her good work, I can't wait to hear our next speaker. Doug Peters will be at the French Connection on the 20th to speak on a topic I find most interesting – remote sensing applications to environmental issues. You all come. Doug is coming from Golden, Colorado! Based on his credentials, he has a lot of expertise, so it should be good.

Our tee shirts have hit a snag. The person who was going to make our shirts has backed out. We are in the process of finding someone else. The problem stems from the fact that our logo has six colors. It takes additional money to add each color to our shirts. We are trying to stay within a certain budget, but I believe we will have everything worked out before the next meeting.

We are planning a weekend field trip to the panhandle of Florida. Harley Means and Tom Scott of the Florida Geological Survey will be our geology guides during this excursion. Our plan is to have the trip during the weekend of Martin Luther King Day (1/19-21/02). Details will be given as soon as we can lock in the right time. Southeastern Geological Society has shown an interest in a combined trip to the panhandle with us. I would like some input about this trip and try to get a head count on who are interested. I hope to here from you at our next meeting.

Jack Breland

THIS MONTH'S TOPIC

Remote Sensing Applications to Environmental Issues at Abandoned Metal Mines and Mills in Idaho and Utah

By Douglas C. Peters,
Peters' Geoscience,
Golden, Colorado

The real, perceived, and potential impacts of old metal mining areas and mill sites on their surroundings and downstream watersheds has been a growing issue over the last decade. A basic environmental assumption has been that all mines and mill sites are causing problems until proven innocent. Sometimes, "cleanup" efforts have been undertaken without much discrimination between polluting sites and innocuous ones. Yet, such efforts have been based mainly on visual identification of wastes and limited ground sampling that can miss important wastes at or near a site.

In an effort to better focus reclamation and remediation on mine and mill sites most in need of such attention, remote sensing is beginning to be used as a means of inventorying and site characterization. This technology, particularly hyperspectral remote sensing, provides a more comprehensive view of these areas than would ever be possible through traditional environmental ground studies alone. Results of remote sensing analysis of these sites then can be used to target ground studies to those locations known or suspected to contain contaminants such as acid-generating materials and wastes that are not necessarily obvious to unguided field personnel. Examples of such remote sensing analysis will be covered for sites in Idaho and Utah studied as part of EPA and NASA projects in the past few years.

BIOGRAPHY

Douglas is the owner of Peters Geosciences, which is a remote sensing and GIS consultancy working on environmental, engineering, and exploration projects. He was formerly with U.S. Bureau of Mines, Denver Research Center. He has a Master of Science degree in Geology and Master of Science degree in Mining Engineering from Colorado School of Mines.

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 2001-2002

- November 20
- December 18
- January 15
- February 19
- March 19
- April 16

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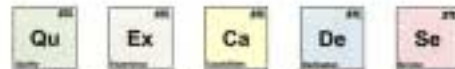


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