

Everglades Geological Society

BULLETIN

Volume 15, Number 5

November 2009

Meeting This Month: November 17, 2009
6:00 P.M. at the Edison, Tower Room
(Social hour starts at 5:00)

Speakers: David Rhodes and Joe May
Florida Department of Environmental Protection

Topic: ASR in South Florida - A Bi-Coastal Perspective

INSIDE THIS ISSUE

2	Announcements/News
3	President's Message
4	This Month's Speakers
6	Advertisers

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.

EGS Officers

President: Andy McThenia
ENTRIX, Inc.
amcthenia@entrix.com

Vice President: Ed Rectenwald
MWH Americas
Edward.Rectenwald@us.mwhglobal.com

Secretary/Treasurer: Kim Arnold
Johnson Engineering
KArnold@johnsoneng.com

Editor: Kelly Probst
Camp Dresser & McKee
ProbstKR@cdm.com

Director: Jody Abbott
Schlumberger
JAbbott3@fort-myers.water.slb.com

Director: James Harcourt
Florida Department of Environmental Protection
James.Harcourt@dep.state.fl.us

Advertising Rates:
Advertisements may be purchased in the Bulletin at the following rates for ten issues of the newsletter.

Business Card Size\$25.00
1.8 x 3.5 inches
One-Quarter Page\$80.00
3.5 x 4.5 inches
One-Half Page \$175.00
7 x 5 inches

EGS MEETING THIS MONTH
TUESDAY November 17, 2009

The Edison
3583 McGregor Boulevard
Fort Myers, Florida

Members and prospective members come join us!

Dues are Due!
Please make your check to:
Everglades Geological Society
P. O. Box 61684
Fort Myers, Florida 33906
Active Member \$18.00
Associate Member \$9.00
www.evergladesgeologicalsociety.org

President's Address
Andrew McThenia

**BLIND PASS BETWEEN SANIBEL AND
CAPTIVA ISLANDS IS OPEN: ENJOY IT
WHILE IT LASTS**



Blind Pass has a long history of openings and closings in response to storm action. The pass was closed in 1962 and re-opened in 1972 in response to Hurricane Agnes. After the pass closed in the summer of 1999, a \$246,307 project in March 2001 opened it by dredging 17,500 cubic yards of sand. But the pass closed a month later. Apparently, there was a backlog of sand in channels east of the bridge that was not removed and this material quickly washed into the dredged area.

After nearly 9 years of planning and permitting, we puny humans thought we were ready to try it again. On December 3, 2008, Energy Resources Inc. of Chesterfield, Mo., started a \$3.2-million project to dredge 148,038 cubic yards of sand - the project was financed by the state, Lee County and the Captiva Erosion Prevention District. Energy Resources dredged 800 feet into the Gulf, 4,000 feet on the inside of the bridge and 500 feet into Roosevelt Channel located northeast of the bridge. Approximately 136,950 cubic yards of material were piped in a slurry onto the beach mainly south along Sanibel. The remaining 11,088 cubic yards were trucked to an upland facility for disposal. Dredging was complete

on the afternoon of July 31st, and Energy Resources was scheduled to officially open the pass August 5th by removing a sheet-pile wall that separated the bay from the Gulf. During the night of July 31st, high waves tore a 30-foot-wide hole in the berm on the south end of the wall, and the Gulf and bay have been connected ever since.

I happened to be working on Captiva during the first weeks after the pass was opened and I witnessed an amazing fish bonanza in the pass on several early morning occasions. Most impressive were pods of tarpon feeding at the mouth of the pass and many snook congregated in the shallows around the south end of the bridge. In mid-September, I kayaked in the pass and was surprised by a manatee that came up and sniffed my boat. I also made an observation that the beach on Sanibel to the south seemed to be rapidly eroding.

As geologists, we all know that human efforts to modify and manipulate coastal zones are all destined to be outdone and overrun by the vastly superior forces of nature. Longshore drift will ultimately transport Captiva's extensively renourished beaches southward and around the existing rock jetty that extends into the Gulf just north of Blind Pass. That supply of sand is anticipated to result in shoaling at the mouth of Blind Pass. When that happens, we puny humans have another sisyphian plan called an Inlet Management Plan (IMP) to move that sand back onto the beach.





This will be a generalized discussion of ASR with respect to issues facing the concept, specifically within the Southwest coast and the directions that FDEP may be moving.

BIOGRAPHIES

David Rhodes, UIC Program Manager, South District Office

David received his B.S. degree in geology from East Carolina University. Mr. Rhodes was briefly employed in the mining and oil exploration industries. Pressures from the collapsing economy and frigid weather in North Dakota ruined all the fun of playing with dynamite and big Tonka Toys and forced a move to Florida. Upon arriving in Florida in 1986, Mr. Rhodes was employed in the geotechnical and engineering industry as a field geologist for nearly two years. A move occurred from the geotechnical industry into the contamination assessment and cleanup industry as demand for geologists experienced in well drilling was rising. After three years in the cleanup industry economic pressures again resulted in a change in employment; to government regulation of water and wastewater utilities. David was employed with the Southwest District office of the Florida Department of Environmental Protection. Mr Rhodes was employed in Tampa for about nine years and then went back to the private sector and was employed by American Water for nearly nine years as a compliance manager and consultant in the water and wastewater industry. The recurring theme of economic downturns causing job changes in Mr. Rhodes career arose yet again with a move from American Water back to the Florida DEP as the manager of the South District underground injection control program, where David has been employed for the last 3 years.

Joseph May, UIC Program Manager, Southeast District Office

Joseph May obtained a Bachelor's degree from USF in Natural Sciences with a major in geology and a minor in geography. Additionally, he is a licensed PG in Florida and has worked for the Florida Department of Environmental protection (FDEP) for the past 20 years. The first 10 years he was located in the Southwest District Office, in Tampa, working in the Ground Water Protection Program as well as the Underground Injection Control (UIC) Program. The second 10 years he has been at the Southeast District Office, in West Palm Beach, as the UIC Program Manager. During his 20 years with FDEP he has been on several county wellhead protection ordinance writing committees, rule drafting committees for three Florida Administrative Code chapters, GIS and GPS implementation, as well as policy initiatives. Regarding Class I injection wells, he has permitting and testing experience. Regarding Class V wells he has experience with Aquifer Storage & Recovery (ASR) systems — even from the pre-arsenic concern era when ASR was not (As)R.

Everglades Geological Society

Meets on the Third Tuesday every other month at The Edison on McGregor Blvd at the Fort Myers Country Club in 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 2010

January 19

March 16

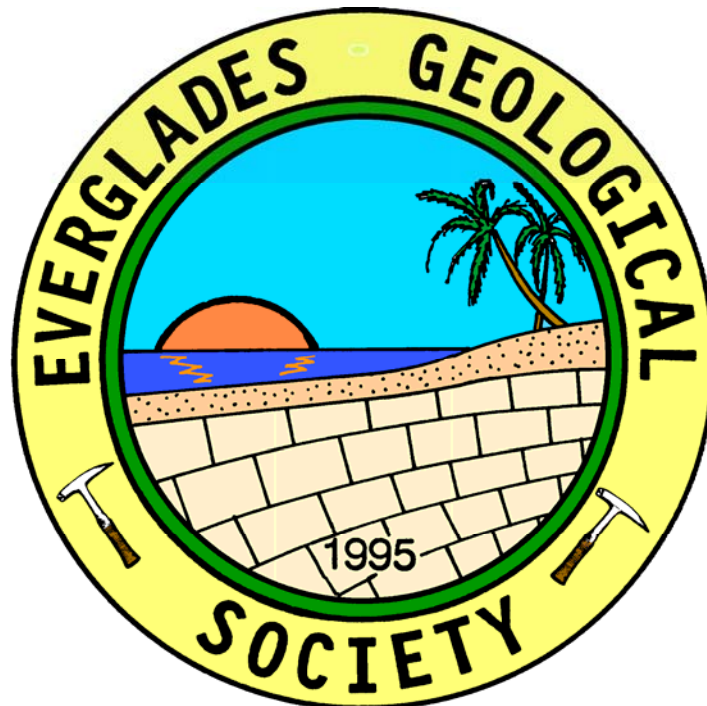
May 18

September 21

November 16

Join Everglades Geological Society

Application forms are available:
at meetings, by mail and on our web site.
www.evergladesgeologicalsociety.com



Support Our Advertisers

ECT

Environmental Consulting & Technology, Inc.

L. Duane Dungan, P.G., C.P.G.
Principal Geologist

4100 Center Pointe Drive, Suite 112
Fort Myers, FL 33916
(239) 277-0003/ FAX 277-1211

JOHNSON ENGINEERING

239 • 334 • 0046

www.johnsonengineering.com

FORT MYERS

NAPLES

CAPE CORAL

PORT CHARLOTTE

LABELLE

LUTZ



**DIVERSIFIED DRILLING
CORPORATION**

Our strengths go deep.

8801 Maislin Drive Tampa, FL 33637 813-988-1132 Fax 985-6636
5620 Lee Street Lehigh Acres, FL 33971 239-368-6404 Fax 368-6716
35920 St Rd 52 Dade City, FL 33525 352-567-9500 Fax 567-6646
8254 Bama Lane #13 West Palm Bch, FL 561-792-7134 Fax 792-7151
1031 Crown Park Cir. Winter Garden, FL 34787 407-654-6970 Fax 654-7049
www.wellwater.com

listen. think. deliver.SM

CDM

239-432-9494
www.cdm.com

Florida Offices

Fort Lauderdale, Fort Myers, Jacksonville, Miami, Orlando, Panama City,
Sarasota, Tallahassee, Tampa, Vero Beach, West Palm Beach

consulting • engineering • construction • operations

Sunrise

(954) 846-0401

West Palm Beach

(561) 655-1205

Miami

(305) 779-4948

Tampa

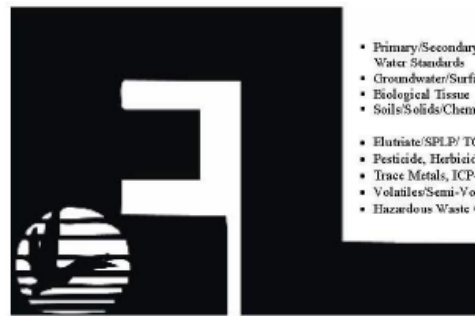
(813) 221-1981

Cape Coral

(239) 573-5959

Florida Services

Water Supply • Flood Control • Environmental Restoration • Wastewater Collection and Treatment • Program Management • Water Treatment and Distribution • Construction Management • Conjunctive Use • Planning • Design



ELAB, Inc.

A proven leader in the laboratory services industry

Corporate Office-Ormond Beach 386-672-5668
South Florida 800-966-5668 Tampa 813-627-0003
www.elabusa.com

- Primary/Secondary Drinking Water Standards
- Groundwater/Surface Water
- Ecological Tissue
- Soils/Solids/Chemical Materials
- Elutriate/SPLP/ TCLP
- Pesticide, Herbicide, GC/HPLC
- Trace Metals, ICP-MS
- Volatiles/Semi-Volatiles GC/MS
- Hazardous Waste Characterization