



## AIPG GEORGIA SECTION

Ron Wallace, President  
Eric Lowe, Vice President  
Susan Kite, Treasurer  
Scott Nilsson – West Georgia student chapter  
Karim Eli Minkara – Georgia State student chapter  
Jason Neale – Columbus State student chapter  
Tony Moraes – University of Georgia student chapter  
Shayna Turner - Georgia Southwestern State student chapter  
Logan Moore – University of North Georgia student chapter  
Mallory Paulk – Berry College student chapter

March 2017

### NEXT MEETING

#### **FORD PLANT UST INVESTIGATION AND REMEDIATION**

**When:** Tuesday, March 28, 2017, 12:00 PM – 1:00 PM

**Where:** The Environmental Institute, ATC Associates, Inc.  
1842-1819 West Oak Parkway, Marietta, GA 30062

AIPG Members and guests call or email by Friday March 24, 2017, if you plan to attend  
[Call Ron Wallace (404) 362-2589 or [ronald.wallace@dnr.state.ga.us](mailto:ronald.wallace@dnr.state.ga.us)]

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#### **PRESIDENTS MESSAGE**

It has been a very busy few months working with our student chapters for different events and trying to get everything coordinated. We have the names of our eight student scholarship winners. I have written a letter to each and besides giving them a membership plaque and scholarship we also pay for them to receive the TPG for a year. I've already given a career talk this year at Berry College and presented them with their AIPG banner and plaque. AIPG National gave them \$100.00 and we gave them \$300.00. A number of their students are planning to go to Southeastern GSA. I was a judge recently for Fulton County Science Fair. Just days ago I visited a UST remediation site in Milledgeville where Mark Faas with Point to Point gave a tour of the site to students from Georgia College. I spoke briefly on AIPG and gave each student a brochure. We have an article below. Here are some upcoming plans we have:

March 6, 2017, I'll be visiting University of North Georgia for their chapter meeting and hope to meet their new faculty advisor.

March 8, 2017, Berry College is hosting Dr. Ed Harvey, the 2017 Birdsall-Dreiss Distinguished Lecture. See below for details.

March 21, 2017, visit two UST remediation sites in Athens. The time and location will be announced soon.

March 28, 2017, is a joint Georgia Ground Water Association and AIPG Georgia Section luncheon. We are teaming with GGWA to give our members additional opportunities to attend technical talks and to have talks on the west side of town. We will have pizza and soft drinks.

On March 30 - 31, 2017, we will have a booth at GSA Southeastern Conference in Richmond, VA. Mike Lawless from Virginia and past AIPG National President and I are co-chairing a session on "Geoscience Careers for New Geoscience Graduates".

Our 7<sup>th</sup> Conference on: Innovative Environmental Assessment and Remediation Technology is scheduled for April 18-19, 2017. We are planning a session on interpreting Laser Induced Fluorescence (LIF). We expect to have a few EPD talks to discuss all the new guidance documents for the UST Program and the new risk-based corrective action that will be implemented.

The 2017 AIPG National Conference will be in Nashville, TN September 23-26, 2017.

We will have a drilling demonstration at Columbus State University. Date will be set soon.

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## **NEW STUDENT CHAPTER AT BERRY COLLEGE**



From left to right:  
Ron Wallace, Treasurer Emily Larrimore, President Mallory Paulk,  
Secretary Shadae Williams, and Dr. Tamie Jovenelly

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## **AIPG GEORGIA SECTION SCHLARSHIP WINNERS**

Georgia Southern – Ryan Diederich  
Columbus State – Ryan Lloyd  
University of Georgia – Cason Dowdy  
Georgia State – Harrison Bohannon  
Georgia Southwestern State – Shayna Turner  
West Georgia – Heather Alley  
University of North Georgia – Logan Moore  
Berry College – Mallory Paulk

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## NEW SECTION MEMBERS

Our section continues to grow. We have two new Professional Members and one Young Professional.

Mr. Ryan Griffin

Jeff Morrison

Mrs. Jessica Loughman

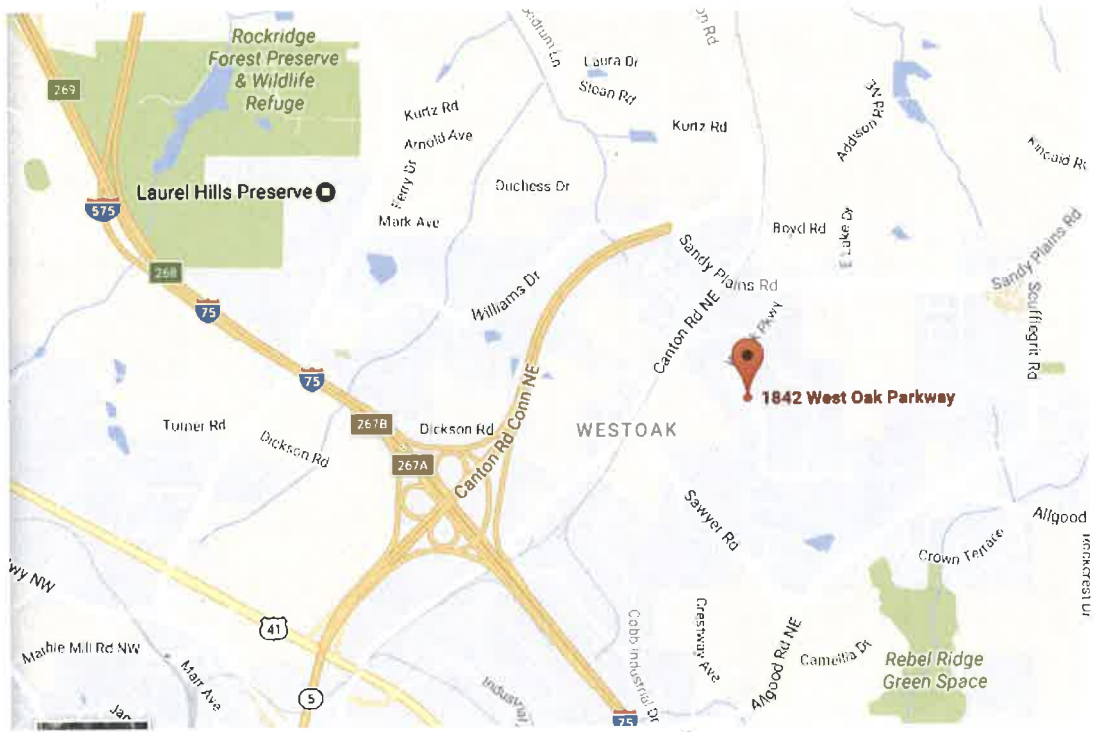
To each of our new members the officers of the Georgia Section welcome you to our section and encourage you to attend our field trips and other activities.

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## GEORGIA COLLEGE VISIT

Point to Point Environmental (P2P) recently hosted 19 students from Georgia College in Milledgeville to an UST active remediation site located in Milledgeville, Georgia. Students from the ENSC 2000 Environmental Methods and Measures class, instructed by Dr. Christine Mutiti, joined P2P staff onsite during a quarterly groundwater monitoring event. The students were presented with a morning of hands-on training including a demonstration of the basics of a groundwater sampling event, depth-to-water / free product gauging, vacuum readings, proper decontamination procedures, and an overview of the operations and maintenance of the Multi-Phase Extraction (MPE) remediation system located onsite. Students were thrilled to have the opportunity to also meet Ronald Wallace, Program Manager II from the Georgia Environmental Protection Division's Underground Storage Tank Management Program (USTMP) who joined the group onsite. Mr. Wallace discussed potential employment opportunities within the USTMP and the benefits of student membership within the AIPG. The event was organized by Georgia College alum and P2P employees Brian Mainor ('15) and Raleigh Burch ('14).





GGWA and AIPG Meeting  
Off of I-75 to Canton Road Connector NE  
Exit onto Sandy Plains to your right and a right onto West Oak Parkway





Berry College Campus

2017 Birsall-Dreiss Distinguished Lecture

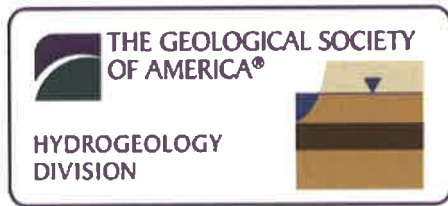
## **Water Resource Management in the U.S. National Park Service**

By Dr. Ed Harvey from the National Park Service

Wednesday, March 8<sup>th</sup> at 5:15 pm Room 119 in the Science Building

Parking is behind the building and the entrance is on the same side of the building

Sponsored by the Berry College Geology Department & American Institute for Professional Geologists (AIPG) Student Chapter

[Contact Us](#) [GSA Website](#) [GSA Community](#)[Sign in](#)

## GSA Hydrogeology Division

# 2017 Birdsall-Dreiss Distinguished Lecture

**Ed Harvey** is supervisory hydrologist and chief of the U.S National Park Service (NPS) Water Resources Division (WRD) located in Fort Collins, Colorado. He received his B.S. in geology/geophysics from Olivet Nazarene University (1986), his M.S. in hydrogeochemistry from Purdue University (1990) and his Ph.D from the University of Waterloo in Waterloo, Ontario, Canada (1996). Immediately after graduation, Ed took a joint position at the University of Nebraska-Lincoln (UNL) where he was a research hydrogeologist with the Conservation and Survey Division (the state's geologic and water survey) and a professor of hydrologic sciences with the School of Natural Resources (SNR). At UNL, Ed's research focused on groundwater dependent ecosystems, groundwater-surface water interaction, and using geochemical and isotope applications methods to characterize regional groundwater flow systems. More about Ed and a list of his publications can be found at <https://www.nps.gov/orgs/1439/forrest-ed-harvey.htm>.



[Click here to view the 2017 lecture tour schedule](#)

In January, 2013, Ed left his academic position to assume his current role as NPS WRD chief. WRD provides Park Service-wide leadership for the preservation, protection, and management of the water and aquatic resources, offers technical assistance to all 400+ national park units, leads and supports development of NPS water resource initiatives, guidelines, and policies and provides disciplinary and policy support to the Washington, DC offices and Park Service leadership staff. More information about WRD can be found at <https://www.nps.gov/orgs/1439/index.htm>.

[Click here to download our editable Birdsall-Dreiss Flyer](#)

Ed has served the broader geological and hydrogeological community in various capacities. He is Fellow of the Geological Society of America (GSA), is presently a GSA Councilor, and served as the GSA Books Editor from 2011-2014. Ed chaired the GSA Hydrogeology Division from 2010-2011, having previously served as vice chair, newsletter editor, website administrator and technical program chair for the 2009 meeting in Portland. In 2008, Ed received the GSA Hydrogeology Division's George Burke Maxey Distinguished Service Award. Ed has also been an associate editor for Ground Water and Hydrogeology journals.

Interested institutions can schedule a visit by contacting Ed Harvey at [forrest\\_harvey@nps.gov](mailto:forrest_harvey@nps.gov). Or, you can complete a request form [here](#). If emailing, please provide your institution name, a contact person's email and phone, and potential dates for when you would like to host the lecture. Ed will present one lecture on the topic of National Park water resources described below. GSA's

Hydrogeology Division is particularly interested in including liberal arts colleges in the itinerary. The Division pays transportation expenses, and the host institution is expected to provide local accommodations.

**Abstract of Lecture: Water Resource Stewardship in the U.S. National Park Service**

On August 25, 1916, President Woodrow Wilson signed the act creating the National Park Service, a new bureau in the Department of the Interior. This "Organic Act" directed the Park Service "to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations." This conservation, enjoyment and protection mandate also applies to water resources within parks.

Unlike most park resources, that are located largely within park boundaries, or are completely under the management control of the National Park Service, park water resource issues and management often involve greater challenges. These challenges arise from the fact that surface water and aquifer boundaries often extend beyond park boundaries and because the legal authority to allocate and manage water resources typically resides with the states. Thus, parks often need to consider resource issues at a larger landscape, or seascape scale, and manage collaboratively with neighbors and partners to protect, manage and restore water resources. In addition, water resource expertise is not always available within a park, resulting in the need to partner with other agencies, universities, friends groups, or regional and national offices. Lastly, many park water resource issues have broader legal, political, socioeconomic, and cultural implications requiring park managers to consider more than just the science alone when making a water resource management decision.

The lecture, using a series of examples from various parks across the United States, will explore the process of how parks identify water resource needs, issues and concerns, and how they develop and apply the necessary scientific information needed to make water resource management decisions. Specific challenges to decision making and park water resource management will be presented and explored including trans-boundary issues, partnership building, scientific uncertainty, funding and personnel/expertise, and making science-based decisions that also appropriately consider the legal, political, socioeconomic, and cultural impacts of the decision. As part of the visit, the lecturer will also present future water resource research and management needs in parks and across the nation, present information about engaging in water resources research within parks, and advise students on programs for seasonal and permanent employment as a water resource professional within the National Park Service.

## Background of the Birdsall-Dreiss Lectureship

The Birdsall Lectureship began in 1978, as part of a bequest left to the Geological Society of America – Hydrogeology Division in memory of John Manning Birdsall. Mr. Birdsall was a prominent geologist, retired from the Water Resources Division of the U.S. Geological Survey. He was a scientist, a dedicated public servant and a gentleman. The bequest was used to provide travel funds for outstanding scientists working in the field of hydrogeology to visit other institutions and give talks on their research. The first lecturer, Dr. Jacob Bear from the Israeli Institute of Technology, visited only the University of Wisconsin – Madison, which hosted one of the premier hydrogeology programs of that era. The subsequent list of Birdsall-Dreiss lecturers includes many outstanding scientists from academia and government. The number of institutions visited by each lecturer grew rapidly, with recent lecturers typically giving 40 to 50 talks, mainly in the

**John Manning Birdsall**  
1902-1975



**Geologist**  
Water Resources Division  
USGS

**Shirley J. Dreiss**  
1949-1993



**Professor**  
Dept. of Earth Sciences  
UC Santa Cruz

U.S. and Canada, but also in Europe, Asia and Australia.

One of the most popular Birdsall Lecturers was Dr. Shirley Dreiss from the University of California – Santa Cruz. Shortly after her very successful 1992 lecture tour, Shirley was killed in an auto accident. Her many friends and admirers honored her by contributing to the GSA Birdsall Lectureship, which was renamed the Birdsall-Dreiss Lectureship. The Birdsall-Dreiss Lecturer is chosen each year by a panel of former B-D lecturers. There are no applications for this position and they make their choice solely on the reputation of perspective candidates for their

research excellence and ability to communicate.

The Birdsall-Dreiss endowment pays for part of their travel and candidates typically obtain additional travel funds from their home institution. Universities or other institutions wishing to host a Birdsall-Dreiss lecture send in their application in the fall, with the tour officially starting each January and ending at the fall meeting of the Geological Society of America.

**Birdsall-Dreiss Distinguished Lecturer Description:** The lecturer shall be selected based on outstanding contributions to hydrogeology or a closely related field through original research and public communication, and the potential for continued contributions to the profession.

#### How to nominate:

Include at least one letter of nomination, a copy of the nominee's curriculum vitae, and at least two supporting letters describing the significant contributions or accomplishments constituting the basis for the nomination.

Submit nominations to: [gsa.hydro.nominations@gmail.com](mailto:gsa.hydro.nominations@gmail.com)

Deadline: February 1, every year

If you have questions, please contact a member of the Birdsall-Dreiss Committee.

#### Previous Lectures

Click [here](#) to query the Birdsall-Dreiss Lectures Database. The database includes year, lecturer, employer, and lecture title(s).

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## American Institute of Professional Geologists (AIPG) Georgia Section Presents:

### 7<sup>th</sup> Conference on: Innovative Environmental Assessment and Remediation Technology

**SCHEDULE:** Tuesday April 18, 2017 and Wednesday, April 19, 2017  
7:45 AM – 5:00 PM                      7:45 AM – 4:00 PM

**LOCATION:** Kennesaw State University  
Continuing Education  
3333 Busbee Drive  
Room 400  
Kennesaw, Georgia 30144

This conference will focus on innovative assessment and remediation technologies being used in the environmental field. Case studies will include petroleum hydrocarbons and chlorinated solvents sites. Presenters will include representatives from private consultants, regulatory personnel, industry, and legal backgrounds. Attendees will earn **14** personal development hours of continuing education.

Name: \_\_\_\_\_

Employer: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_ Fax Number (\_\_\_\_) \_\_\_\_\_ E-Mail \_\_\_\_\_

**REGISTRATION:** \$150.00 **AIPG members \$100.00**, students \$20.00, **AIPG student members free.**

**SPONSOR:** \$200.00 One free registration and send an electronic copy of company logo and contact information to be placed in attendees notebook.

|                                      |                          |             |                          |             |                   |
|--------------------------------------|--------------------------|-------------|--------------------------|-------------|-------------------|
| <b>Other Sponsorships: Breakfast</b> | <input type="checkbox"/> | <b>4/18</b> | <input type="checkbox"/> | <b>4/19</b> | <b>\$300.00</b>   |
| <b>Morning Break</b>                 | <input type="checkbox"/> | <b>4/18</b> | <input type="checkbox"/> | <b>4/19</b> | <b>\$300.00</b>   |
| <b>Afternoon Break</b>               | <input type="checkbox"/> | <b>4/18</b> | <input type="checkbox"/> | <b>4/19</b> | <b>\$300.00</b>   |
| <b>Lunch</b>                         | <input type="checkbox"/> | <b>4/18</b> | <input type="checkbox"/> | <b>4/19</b> | <b>\$1,000.00</b> |

#### METHOD OF PAYMENT:

1. Company Check #: \_\_\_\_\_ Personal Check #: \_\_\_\_\_ On-line \_\_\_\_\_  
Make checks payable to **AIPG Georgia Section** Go to: <http://georgiaaipg.weebly.com/>

**MAIL TO:** Susan Kite \* 1000 Peachtree Industrial Blvd., Ste 6 - 301 \* Atlanta, GA 30024  
Phone (678) 640-5268 E-Mail [skite@charter.net](mailto:skite@charter.net)

#### REFUNDS & CANCELLATIONS:

All cancellations must be received in writing and sent to Susan Kite by mail or e-mail. Phone cancellations are not accepted. All cancellations postmarked-dated by April 11, 2017, will receive a REFUND minus a 25% administrative fee. After April 11, 2017, registrants are no longer eligible for refunds; however, substitutions are welcome. Call (678) 640-5268 for substitutions. **No REFUND FOR THOSE WHO REGISTER AND FAIL TO ATTEND.**



## American Institute of Professional Geologists

### AIPG Student Chapter of the Year Award

The purpose of the AIPG Student Chapter of the Year Award is to recognize the most outstanding student chapter for their participation in, and contribution to, the American Institute of Professional Geologists. The award will consist of a plaque to be presented to the student chapter, a certificate to each of the officers of the chapter at the time of their submittal, a \$500.00 award for the chapter, and a trip for one member of the winning student chapter to the annual AIPG conference and executive meetings. The student that attends the annual meeting will observe the organization and functions of AIPG and participate in the executive board meeting.

All AIPG student chapters are eligible to apply for the award. There is no limit on the number of times a student chapter may win the award. Only one chapter will receive the award per year.

The Student Chapter of the Year Award is administered by the Executive Committee of AIPG. The selection of the winning chapter will be decided by the AIPG Education Committee. The deadline for submittal of application materials for the Student Chapter of the Year Award, to AIPG National Headquarters, is June 30 of each year. The application should be submitted in a pdf or similar format. The winning chapter will be announced at the beginning of the Fall Semester. The certificates will be presented to the students at one of their chapter meetings. The award and plaque will be presented to the chapter delegate at the banquet of the annual meeting of AIPG.

The submittal for Student Chapter of the Year Award will consist of a written report. Photos documenting chapter activities are strongly encouraged. The submittal should cover the period from the beginning of the Fall Semester to the end of the Spring Semester and include the following as a minimum:

- 1) Name of the student chapter;
- 2) Names of student chapter officers;
- 3) Number of AIPG student members in the chapter;
- 4) Number of chapter meetings per year;
- 5) Programs to recruit new members;
- 6) Activities within the department (seminars, guest speakers, field trips, career day, mentoring, etc.);
- 7) Fundraisers;
- 8) Activities within the university (geology awareness, recycling, sustainability awareness, Earth Day, etc.);
- 9) Activities within the community;
- 10) Interactions with professional geologists and the local AIPG Section; and
- 11) Other significant activities that the chapter considers important to the mission of AIPG.

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## **FEDERAL DOCUMENTS**

### **Digital Coast Act introduced in the Senate**

Sen. Tammy Baldwin (D-WI) introduced the Digital Coast Act (S.110) on January 12. This act directs the National Oceanic and Atmospheric Administration (NOAA) to promote planning with geospatial information in coastal regions.

The Digital Coast Act calls for NOAA develop geospatial data tools and guidance. S.110 directs NOAA to improve upon its current digital coast website and other digital platforms. This data will assist coastal planners at national, state, and local levels in local zoning and permitting, ecosystem assessment, and flood control.

The bill was reported favorably by the Senate Committee on Commerce, Science, and Transportation and is currently awaiting a Senate vote.

### **House passes DOE Research and Development legislation**

On January 24 the House passed H.R. 589, the "Department of Energy Research and Innovation Act." Congressman Lamar Smith (R-TX-21) introduced this bill to promote U.S. technology transfer and commercialization and to establish and reform DOE science and energy research policies and development programs. If this bill becomes law, the Department of Energy (DOE) research policies may potentially be overhauled.

This bill aims to increase commercialization of new technologies, promote the development of advanced nuclear reactors, and create research initiatives on solar fuels and electricity storage. The proposed DOE restructuring will remove redundant research areas, ease departmental coordination and communication, and increase academia and private sector research contracts.

H.R. 589 prioritizes technology transfer by establishing more innovation hubs and authorizing funds for new projects. It would also create an all-encompassing DOE database outlining grants, energy research contracts, and cooperative agreements.

### **Federal scientists recommend geoengineering research**

The National Global Change Research Plan 2012-2021: A Triennial Update was released by the U.S. Global Change Research Program on January 1. This report updates the current national global change research plan. For the first time, federal researchers recommend investment in geoengineering research. Geoengineering directly intervenes to make global atmospheric changes. One geoengineering proposal mimics the cooling effects of volcanic eruptions by increasing sulfate aerosol emissions from airplanes.

The effects and consequences of geoengineering are not well understood. The plan requests research that would provide a scientific framework to understand potential geoengineering impacts. The report calls for the explicit definition of implementation plans, including scale, scope, and modeling for future geoengineering experiments.

Geoengineering, the report states, while not a solution to the pressing matter of global climate change, could address part of this issue.

## **White House releases America First Energy Plan**

Following his inauguration on January 20, President Trump's administration released the America First Energy Plan. The energy plan emphasizes economic stimulation, national security, and environmental health.

The plan centers on lowering energy costs and removing dependence on foreign oil through increased use of American resources. It calls for a "shale oil and gas revolution" focus and developing resources on federal lands. President Trump's administration intends to revive the coal industry via clean coal technology. To address terrorism, the plan dictates an energy relationship with Gulf allies.

Finally, President Trump's energy policy calls for the removal of regulations affecting the energy industry, including the Climate Action Plan and the Waters of the U.S. Rule. These Obama administration actions mandate reduced greenhouse gas emissions and expand the Environmental Protection Agency's (EPA) jurisdiction. In place of these initiatives, the Trump Administration's plan proposes refocusing the EPA's primary mission towards protecting air and water.

## **Congresswoman Bonamici (D-OR) introduces tsunami bill**

Rep. Suzanne Bonamici (D-OR-1) introduced the Tsunami Warning, Education, and Research Act (H.R. 312) on January 10. This bill directs the National Oceanic and Atmospheric Administration (NOAA) to strengthen tsunami research, detection, forecasting, warning, and mitigation programs.

The act directs NOAA to collaborate with federal agencies, such as the U.S. Geological Survey and National Science Foundation, to develop and improve tsunami prediction and detection systems. Tsunami forecasting models will incorporate data from satellites, the global seismic network, the Advanced National Seismic System, and airborne remote sensing systems.

U.S. coastal regions are susceptible to potentially destructive tsunami events. This bill will improve current tsunami detection systems to enable earlier tsunami response times. These systems will enable coastal communities to evacuate earlier and act to minimize potential infrastructure and economic damages.

The House Committee on Science, Space, and Technology is currently reviewing the bill.

## **Gulf shores to receive storm resilience boost**

The Gulf Islands National Seashore will be the site of the largest coastal sand restoration project in U.S. history. As part of ongoing restoration and protection efforts an agreement between the Bureau of Ocean Energy Management and the United States Army Corps of Engineers will restore the seashore with sand from the outer continental shelf.

Ship Island within the Gulf Islands State Park will be restored with 19.6 million cubic yards sand. That is roughly the volume of 14 Empire State Buildings. The project will utilize outer continental shelf sand rather than near-shore sources because of potential impacts to coastal systems.

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[ronald.wallace@dnr.state.ga.us](mailto:ronald.wallace@dnr.state.ga.us)