### 2013 Tulane Engineering Forum
Friday, April 5, 2013 - Morial Convention Center, New Orleans
Second Floor Conference Rooms above Halls I and J

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30AM</td>
<td>Continental Breakfast, Registration, Robotics Demo &amp; Student Poster Session Rooms 291-292</td>
</tr>
<tr>
<td>8:15AM</td>
<td>Opening Session Welcome Theater / Auditorium</td>
</tr>
<tr>
<td>8:45AM</td>
<td>Morning Plenary Session Theater / Auditorium</td>
</tr>
<tr>
<td>8:45AM - 10:15AM</td>
<td>Morning Plenary Session Theater / Auditorium</td>
</tr>
<tr>
<td>10:15AM</td>
<td>Break, Robotics Demo &amp; Student Poster Session Rooms 291-292</td>
</tr>
<tr>
<td>10:45AM - 12:15PM</td>
<td>Concurrent Sessions</td>
</tr>
</tbody>
</table>

#### Concurrent Sessions

<table>
<thead>
<tr>
<th>Session A: Infrastructure I Rooms 288-290</th>
<th>Session B: Energy I Theater / Auditorium</th>
<th>Session C: Oil &amp; Gas / Chemical I Rooms 283-285</th>
<th>Session D: Wetlands / Coastal Restoration Rooms 286-287</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innovative Use of FRP for Sustainable Precast Concrete Structures</td>
<td>Global Energy Outlook for the Electric Power</td>
<td>Leading-edge Applications of Geophysical</td>
<td>Restoration of the Wetlands Using Fresh Water</td>
</tr>
<tr>
<td>Sami Rizkalla, PhD, Distinguished Professor of Civil Engineering and Construction, Director of the Constructed Facilities Laboratory, Department of Civil, Construction and Environmental Engineering, North Carolina State University</td>
<td>Industry</td>
<td>Technology</td>
<td>Management: BROADER CONSIDERATIONS</td>
</tr>
<tr>
<td>Natural Gas Outlook and its Impact on the US Energy Infrastructure</td>
<td>The Who Dat Development - Evolution of a Project from Lease Sale to First Production</td>
<td>The Use of Mississippi River Sediment for Restoration Projects in Louisiana</td>
<td></td>
</tr>
<tr>
<td>William A. Marko, Managing Director, Jefferies &amp; Co., Inc.</td>
<td>Rick Fowler PE, VP Deepwater Projects, LLOG Exploration Company, LLC</td>
<td>Russ J. Joffrion, PE, Engineer Manager, Coastal Protection and Restoration Authority Engineering Division</td>
<td></td>
</tr>
</tbody>
</table>

#### Other Sessions

- High Performance Materials in Civil Infrastructure
  - Issam Elias Harik, PhD, Raymond-Blythe Professor of Civil Engineering, Program Manager, Structures, Kentucky Transportation Center, Department of Civil Engineering, University of Kentucky
  - Segue between Washington and Wall Street for Energy-related Capital Formation
  - Jane Sadowsky, Managing Partner, Gardener Advisory, LLC
  - The Physics of an Underground Blowout
  - David Crews, Vice President, Business Development - AGR FJ Brown, Inc.
  - Implications of Sea Level Rise: Case Study on the East Land Bridge
  - Dennis Lambert, PE, Area Manager, Ben C. Gerwick, Inc. and Dale Bemer, PE, PhD, President, Ben C. Gerwick, Inc.
## LUNCHEON  Rooms 293-296

**Chair:** Nicholas Altiero, PhD, Dean, Tulane School of Science and Engineering  
*Redefining "Frontier" - Robert N. Ryan, Jr., Vice President - Global Exploration, Chevron Upstream and Gas*

## 2:15PM - 3:45PM

### CONCURRENT SESSIONS

| Session E: Infrastructure II  
Rooms 288-290 | Session F: Energy II  
Theater / Auditorium | Session G: Oil & Gas / Chemical II  
Rooms 283-285 | Session H: Levee / Flood Protection  
Rooms 286-287 |
|---|---|---|---|
| **Co-chairs:** Robert J. Kahl, US Department of Energy and David Kanger, PE, Modjeski and Masters  
Joe Becker, General Superintendent, Sewerage and Water Board of New Orleans  
Dennis Dawsey, Vice President of Transmission and Distribution Operations for Louisiana, Entergy Louisiana  
Terry Tamutus, Director of Infrastructure Business Development, Mistras Group, Inc. | **Co-chairs:** John McGaha, PE, jMc Associates, LLC and Don W. Vinci, Entergy  
Ron Schroder, Director, Nuclear Programs, Savannah River National Laboratory  
Brian Weeks, PE, Regional Manager, Gas Technology Institute  
Alan Waltar, PhD, retired Senior Advisor to the Pacific Northwest National Laboratory, and previous Professor and Head, Nuclear Engineering, Texas A&M University | **Co-chairs:** Franz Vogt, PE, RAIN CII Carbon and Thomas P. Meehan, Intralox Engineering  
Keith B. Hall, Director of the Mineral Law Institute, LSU Law Center | **Chair:** George Flowers, Tulane SSE and Doug Meffert, Louisiana National Audubon Society  
Mead A. Allison, PhD, Director of Physical Processes and Sediment Systems, Water Institute of the Gulf, Professor, Department of Earth and Environmental Sciences, Tulane SSE |
| Robust Engineered Systems: New Orleans Sewerage and Water Board  
DOE R&D in the Energy Sector  
Entergy's Storm Hardening Case Study - Port Fourchon  
Innovations in Structural Health Monitoring and NDT of High Risk Assets | DOE R&D in the Energy Sector  
Advanced Vehicle Fuels: Electric, Natural Gas, and Hydrogen  
New Nuclear Technology | Hydraulic Fracturing and the Environment: Drink Up!  
North American Petrochemicals: A Modern Renaissance | Flood Protection versus Coastal Restoration: Taming and Using the Mississippi River in Louisiana  
Integrating Coastal Restoration Projects into Flood Protection, The Plaquemines Parish Approach  
The Hurricane and Storm Damage Risk Reduction System: Lessons Learned from Hurricane Isaac |

---

## 3:45PM  
**BREAK**  
Rooms 291-292

## 4:00PM

### CLOSING SESSION  
Rooms 288-290

**Ethics**

**Chair:** Nick Altiero, PhD, Dean, Tulane School of Science and Engineering  
Jack Grubbs, PhD, PE, Consultant and Author, GrubbsStuff  
*Title: Engineering Ethics: The Dilemma Zone*

---

## 5:00PM

**PROGRAM ENDS**