# 2018 Tulane Engineering Forum

Friday, April 20, 2018 Morial Convention Center, New Orleans
Second Floor Rooms 244 - 257 and La Nouvelle Orleans Ballroom

## 8:15 - 8:45
**OPENING SESSION WELCOME**

L. T. Cooper, 2018 TEF Chairman  
Robin Forman, PhD, Senior VP for Academic Affairs and Provost

## 8:45 - 10:15
**MORNING PLENARY**

Chair: John Kelly  
**Hurricane Harvey: Hurricane Protection/Storm Management Response**  
Edmond J. Russo Jr., PhD, PE, Deputy District Engineer for Programs & Project Management, US Army Corps of Engineers, Galveston District  
Steve Costello, Chief Resilience Officer, City of Houston

## 10:15 - 10:45
**BREAK**

Chair: Michelle Hewlett Sanchez, PhD  
**K-12 Robotics Demonstrations, Science Projects and Student Research Posters**

## 10:45 - 12:15
**CONCURRENT SESSIONS**

### Session A: Infrastructure
- **Design and Construction of T-Mobile Arena**  
  **(Las Vegas, NV)**  
  Gary A Storm, P.E., LEED AP, Senior Principal  
  Thornton Tomasetti

### Session B: Cyber Security in the Energy Sector
- **Cyber Risks, Threats, and Challenges to U.S. Critical Energy Infrastructure**  
  Robert Timpany, Section Chief, Control Systems Training  
  National Cybersecurity & Communications Integration Center – Department of Homeland Security

### Session C: Oil and Gas
- **Offshore Oil & Gas Exploration & Production**  
  Okite Obakponovwe, PhD, Materials & Corrosion Engineer, Upstream Deep Water Gulf of Mexico  
  Shell Exploration & Production Company

### Session D: Water Management & Flood Protection
- **Activities of the New NOAA National Water Center in Alabama**  
  Edward Clark, PhD, Director  
  NOAA National Water Center

## 12:15 - 1:15
**LUNCH**

## 1:15 - 3:00
**CONCURRENT SESSIONS CONTINUED**

### Session A: Infrastructure
- **Managing Risk in the Networked Information Environment: A Non-Expert's Perspectives on Enterprise Cybersecurity**  
  Miriam E. John, PhD, Vice President Emeritus  
  Sandia National Laboratories

### Session B: Cyber Security in the Energy Sector
- **Shale Gas for Europe - the Dragon Roars to Life**  
  Shrop Perrin, Business Manager, Polyplyene  
  INEOS Olefins & Polymers USA

### Session C: Oil and Gas
- **Gas Derived from Coal**  
  Jan Shumate, Worldwide Engineering Services Director  
  Eastman Chemical

### Session D: Water Management & Flood Protection
- **Drainage Issues in the Amite Basin: Lessons from the 2016 Flood**  
  Dietmar Rietschier, Executive Director  
  Amite River Basin Commission

## 3:00 - 4:45
**CONCURRENT SESSIONS CONTINUED**

### Session A: Infrastructure
- **The Tower at PNC Plaza, Pittsburgh**  
  Jeremy Snyder, PE, LEED AP, Associate Principal  
  BuroHappold Engineering

### Session B: Cyber Security in the Energy Sector
- **Challenges in Securing the Connected Grid**  
  George Raesies, Director, IT Security and Compliance  
  Entergy

### Session C: Oil and Gas
- **Gas Derived from Coal**  
  Jan Shumate, Worldwide Engineering Services Director  
  Eastman Chemical

### Session D: Water Management & Flood Protection
- **Port Fourchon: Supporting the Working Coast Initiative**  
  Chett Chiasson, Executive Director  
  Greater Lafourche Port Commission
### 12:30 - 2:15
**LUNCHEON**  
*Room*  
**Chair:** Ryan Burks  
Louis Armstrong International Airport North Terminal Project Overview  
Chris Bauer, LEED AP BD+C, Project Director, AECOM-HUNT

### 2:15 - 3:45
**CONCURRENT SESSIONS**

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<td><strong>Chairs:</strong> Ryan Burks and VJ Gopu</td>
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<td><strong>Ramp Repair on US 61 @ I-10</strong></td>
<td><strong>Sourcing Electricity - The Changing Political Landscape</strong></td>
<td><strong>Orion Project Updates</strong></td>
<td><strong>City of New Orleans' Green Infrastructure Program Highlights</strong></td>
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| Aaron Elizar, PE and Scott Lobell, PE | Jane Sadowsky, Managing Partner, Gardener Advisory LLC | Joe Arves, Lockheed Martin | Mary E. Kincaid, PE, Green Infrastructure Program Manager  
Department of Public Works, New Orleans City Hall |
| Louisiana Department of Transportation and Development | **Sourcing Electricity – The Changing Landscape of Electric Generation** | **SLS (Space Launch System) Heavy Lift Rocket Vehicle: Latest Developments** | **Green Infrastructure Toolkit** |
| **Application of FRP in Bridge Rehabilitation in the U.S.** | **Kimberly Fontan, VP, System Planning and Operations** | **Renee Horton** | **Tyler Antrup, Urban Water Program Manager** |
| Mohschn Shahawy, PhD, PE, Principal and CEO | **Entergy Services** | **SLS Stages Office, Michoud** | **City of New Orleans** |
| **Seabrook Bridge Floorsystem Rehabilitation** | **Sharon Brown Hruska, PhD, Managing Director** | **Glenn Case** | **Colleen Butler**  
Lotus Engineering and Environmental Services |
| Greg Taravella, PE and Jim Costigan | **National Economic Research Association** | **Generation Orbit** | **Modjeski and Masters, Inc.** |
| Modjeski and Masters, Inc. | | | |

### 3:45 - 4:00
**BREAK**  
*Room*  

### 4:00 - 5:00
**CLOSING SESSION**  
*Room*  
**Ethics**  
**Chair:** L. T. Cooper  
**Engineering Ethics**  
Norma Jean Mattei, PhD, PE, FSEI, FASCE, 2017 ASCE President, American Society of Civil Engineers

### 5:00
**PROGRAM ENDS**