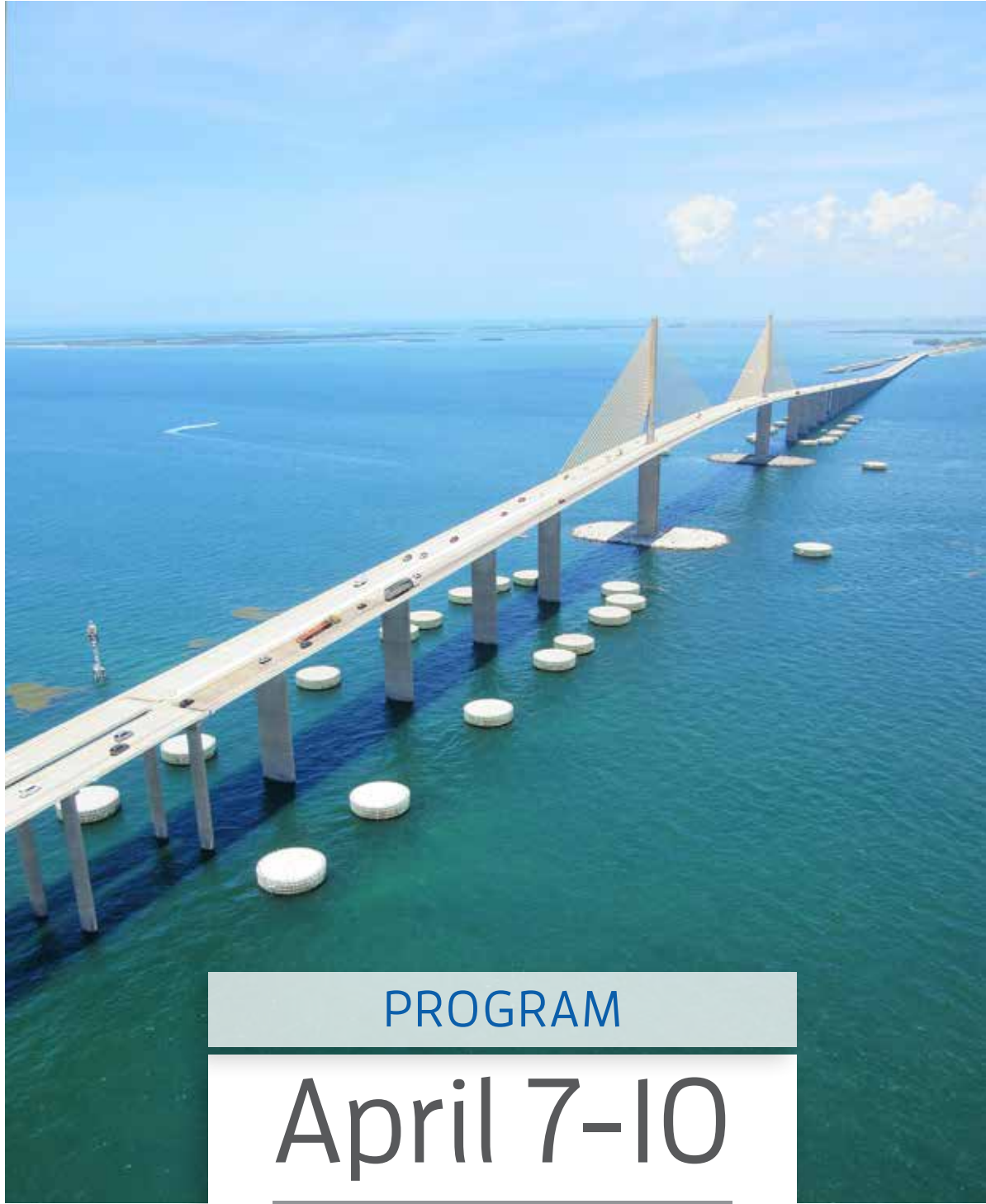


# EUCG 2019 | SPRING WORKSHOP



PROGRAM

April 7-10

**St. Petersburg, Florida**  
Hilton St. Petersburg Bayfront





# EUCG 2019 | SPRING WORKSHOP

## Dear EUCG Colleagues,

On behalf of the EUCG Board of Directors, we welcome you to the **2019 Spring Committee Workshops** at the Hilton St. Petersburg Bayfront in St. Petersburg, Florida. We are excited to return to this exciting city and enjoy the beautiful sunshine.

The Committee Chairs and their teams have worked very hard to assemble interesting and engaging presentations and discussion topics for this workshop. We want to again give a special thanks to the members of our Workshop Task Team for the integral role they have played in putting together all aspects of this workshop. While we know most of you are here to attend a specific committee workshop, we encourage you to take a look at all the committee schedules. You may find a topic of interest for you or another member of your company, and we invite you to sit in on any of the sessions.

We are thrilled to have an outstanding keynote speaker for this workshop. We are pleased to have **Frank Dame**, EVP and Chief Operating Officer of the Clearwater Marine Aquarium, share his experiences in our Opening Session.

We promise an exciting Monday Evening Networking Event as we enjoy some fun and games at Park & Rec. This event is an excellent opportunity to reunite with old friends and make new friends, and we're sure you'll have a great time at the party! There are 30 first-time attendees at this workshop and we are thrilled to welcome them to the EUCG family.



Remember to mark your calendar and join us **September 15-18, 2019** at the **Hilton New Orleans Riverside**, for the **2019 Fall Committee Workshops**. We are glad that you have joined us here in St. Petersburg!

**Stephanie Maggard**  
EUCG President

# Frank Dame, EVP and Chief Operating Officer, Clearwater Marine Aquarium

## KEYNOTE SPEAKER



Frank has been involved with CMA and its growth since 2006. A former Chairman of the Board, he was named to his current executive staff position in October of 2008. Frank holds a B.S. degree in Finance with a minor in Marketing from the University of Central Florida. He has more than 34 years of experience in executive management prior to joining CMA. Previous positions include president of GTE Leasing Corporation, VP/GM of Verizon Credit Corporation and VP of Sales and Marketing for Progress Telecom, a wholesale broadband and wireless infrastructure company. He is a former Chairman of the Clearwater Jolley Trolley, and held positions as Chairman of the Clearwater Beach Chamber of Commerce, board member of the Clearwater Regional Chamber of Commerce, board member of the Clearwater Downtown Partnership and served eight years on the Clearwater Community Development Board.

## EUCG | Board of Directors

### Stephanie Maggard

President  
PG&E  
PO Box 770000, MC N11E  
San Francisco, CA 94177  
(415) 973-2812 | sam6@pge.com

### Jesse Medlock

Vice President  
Oncor Electric Delivery  
115 W 7th St., Ste 1023  
Ft. Worth, TX 76102  
(817) 215-6549 | jesse.medlock@oncor.com

### Evelyn Grant

Treasurer  
Lower Colorado River Authority  
6549 Power Plant Rd. | LaGrange, TX 78945  
(979) 249-8381 | egrant@lcra.org

### Matt Dau

Secretary  
United States Army Corps of Engineers  
Northwestern Division  
1201 NE Lloyd Blvd. #400  
Portland, OR 97232  
(503) 808-3894 | matthew.r.dau@usace.army.mil

### Steve Thornton

Marketing Director  
Duke Energy  
Progress Energy Building-PEB 7  
410 S Wilmington St. | Raleigh, NC 27601  
(919) 546-4186  
stephen.thornton@duke-energy.com

### Andrew Campbell

Emerging Issues Director  
Tennessee Valley Authority  
714 Swan Pond Rd. | Harriman, TN 37748  
(865) 717-2538 | bacampbell@tva.gov

### Steve Royall

Fossil Committee Chair  
PG&E  
245 Market St., N11E | San Francisco, CA 94105  
415-973-6115 | sgr8@pge.com

### Chris Utracki

Hydro Committee Chair  
Ontario Power Generation  
14000 Niagara Pkwy. ND2  
Niagara on the Lake, ON L0S 1J0 | Canada  
905-357-0322 x 6004 | chris.utracki@opg.com

### David Ward, Jr.

Nuclear Committee Chair  
Duke Energy  
526 S. Church St. | Charlotte, NC 28201  
704-382-4943 | dr.ward@duke-energy.com

### Eileen Brannon

T&D Committee Chair  
Oncor Electric Delivery  
1616 Woodall Rodgers Frwy. | Dallas, TX 75202  
214-486-5309 | eileen.brannon@oncor.com

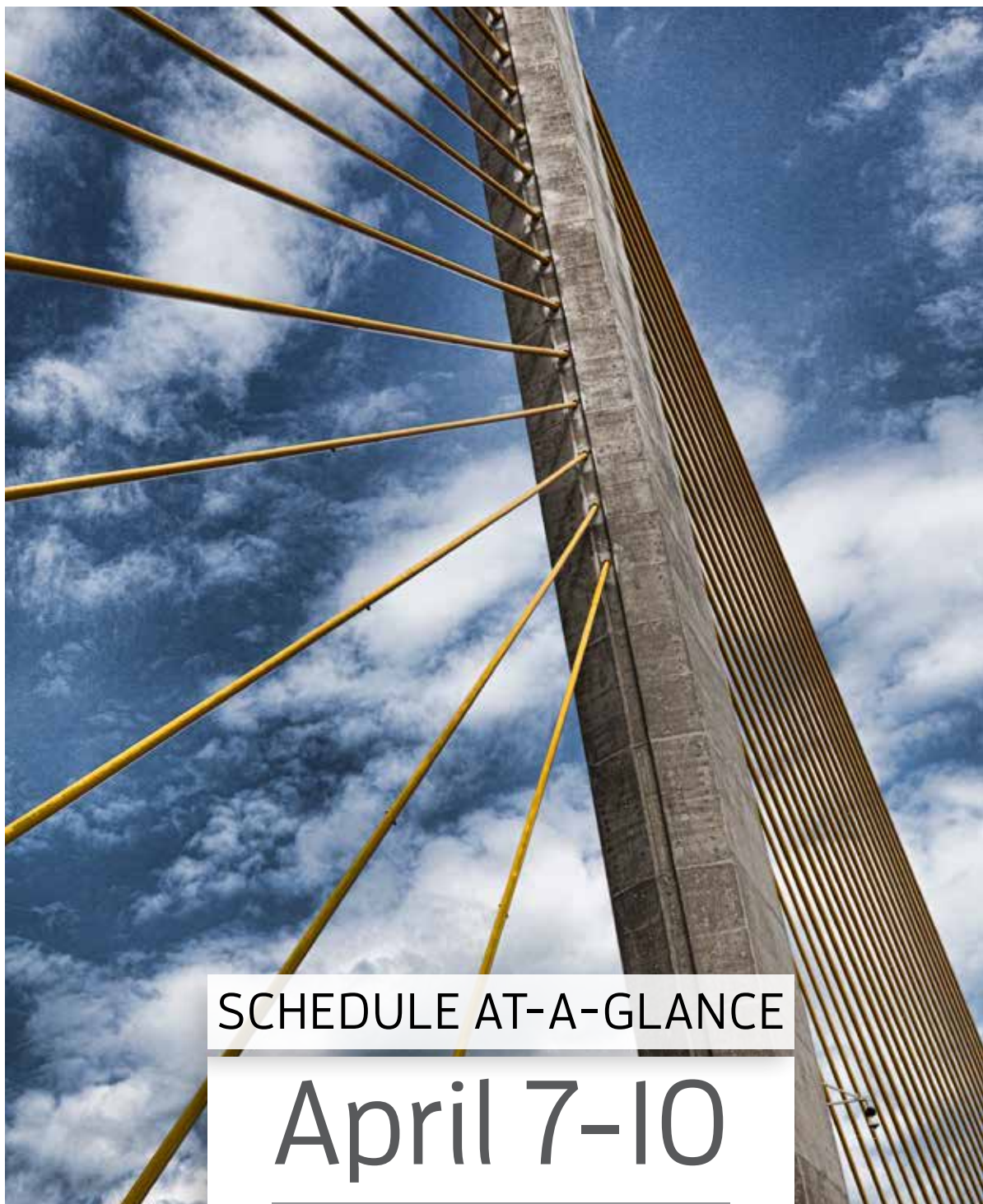
### Ruben Soto

Solar Committee Chair  
Southern California Edison  
1515 Walnut Grove Ave. | Rosemead, CA 91770  
626-302-0587 | ruben.soto@sce.com



11130 Sunrise Valley Drive, Suite 350 | Reston, Virginia 20191  
P 703.234.4143 | F 703.435.4390 | www.eucg.org





SCHEDULE AT-A-GLANCE

**April 7-10**

**St. Petersburg, Florida**

**Hilton St. Petersburg Bayfront**



**EUCG™**  
Your Energy Information Source

## SUNDAY APRIL 7

5:00 pm – 7:00 pm	<b>Welcome Reception and Registration</b>	<i>St. Petersburg III</i>
-------------------	---	---------------------------

## MONDAY APRIL 8

7:00 am – 8:00 am	<b>BREAKFAST</b>	<i>Grand Bay South Ballroom</i>
-------------------	------------------	---------------------------------

8:00 am – 9:30 am	<b>EUCG General Session, Membership Meeting</b>	<i>Grand Bay North Ballroom</i>
-------------------	---	---------------------------------

9:30 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
--------------------	--------------	-----------------------

	FOSSIL <i>St. Petersburg II</i>	HYDRO <i>St. Petersburg III</i>	NUCLEAR <i>St. Petersburg I</i>	T&D <i>Williams</i>	SOLAR <i>Demens</i>
10:00 am – 11:00 am	<b>FP1</b> (15 min.) Welcome/Introduction of Fossil Keynote Speaker	<b>HP1</b> (75 min.) Introductions and Business Updates/ Address from HPC Chairman	<b>NC1</b> (60 min.) EUCG Introductions, General Business and 2019 Strategic Plan Update	<b>TD1</b> (60 min.) Welcome and Introductions	<b>SC1</b> (60 min.) Introductions and Business Updates/ Chairman's Address
10:15	<b>FP2</b> (45 min.) Fossil Keynote				
10:30					
10:45					
11:00 am – 12:00 pm	<b>FP3</b> (60 min.) Fossil Best Practices Awards	<b>HP2</b> (45 min.) Study of the Costs of Cycling Operations at Seattle City Light	<b>NC2</b> (60 min.) Presentation of Member Issues	<b>TD2</b> (60 min.) Host City Utility Greetings – Duke, Florida	<b>SC2</b> (60 min.) Maintenance Tech Training & Qualifications
11:15					
11:30					
11:45					
12:00 pm – 1:00 pm	<b>LUNCH</b>			<i>Grand Bay South Ballroom</i>	

	FOSSIL <i>St. Petersburg II</i>	HYDRO <i>St. Petersburg III</i>	NUCLEAR <i>St. Petersburg I</i>	T&D <i>Williams</i>	SOLAR <i>Demens</i>
1:00 pm – 2:00 pm	<b>FP4</b> (45 min.) Predictive Maintenance Programs	<b>HP3</b> (45 min.) Enterprise & Project Management at Grand Coulee Dam	<b>NC3</b> (45 min.) Major Nuclear Issues Discussion to Determine Major Topics for Potential Workshop Breakout Sessions	<b>TD3</b> (60 min.) DATA Gathering and Normalization of Data	<b>SC3</b> (60 min.) Work Management Process
1:15					
1:30					
1:45		<b>HP4</b> (60 min.) Small Hydro Divesture Program at Pacific Gas and Electric Company	<b>NC4</b> (60 min.) NextEra Continuous Improvement Program		
2:00 pm – 2:45 pm	<b>FP5</b> (45 min.) Leader in the Field Program			<b>TD4</b> (60 min.) SAFETY Safety Issues Resolution on Communication Entity Attachments to Transmission Structures	<b>SC4</b> (45 min.) Work Vehicle Fleet Standards
2:15					
2:30					
2:45 pm – 3:15 pm	<b>BREAK</b>			<i>St. Pete Lobby</i>	
3:15 pm – 5:00 pm	<b>FP6</b> (45 min.) Steam Cycle Air-Inleakage: Mechanical Issues Affecting Cycle Chemistry & Heat Rate	<b>HP5</b> (60 min.) 3:00 pm – 4:00 pm HPC 2018 Annual Report Draft Review and Discussion	<b>NC5</b> (45 min.) 3:00 pm – 3:45 pm Top Industry Performer (TIP) Award Presentation	<b>TD5</b> (60 min.) OPERATIONS Tableau Demonstration	<b>SC5</b> (60 min.) Transformer Maintenance
3:30					
3:45			<b>NC6</b> (45 min.) Crystal River Decommissioning Process		
4:00	<b>FP7</b> (30 min.) Monday Debrief			<b>TD6</b> (45 min.) Daily Wrap-Up and General Discussion	<b>SC6</b> (45 min.) PM Frequencies
4:15					
4:30			<b>NC7</b> (15 min.) Day One Wrap-Up and Next Day Plan		
4:45					
5:30 pm – 9:00 pm	<b>Monday Evening Networking Dinner Event</b> Join us at Park & Rec, a trendy space in downtown St. Petersburg that features classic arcade games, skeeball, outdoor cornhole, and more to bring out your inner child and engage in some friendly competition with your peers! Park & Rec, 100 4th St S, St. Petersburg, FL 33701				<i>Buses will operate on a continuous loop between the hotel and venue from 5:30 pm – 9:00 pm.</i>

# TUESDAY APRIL 9

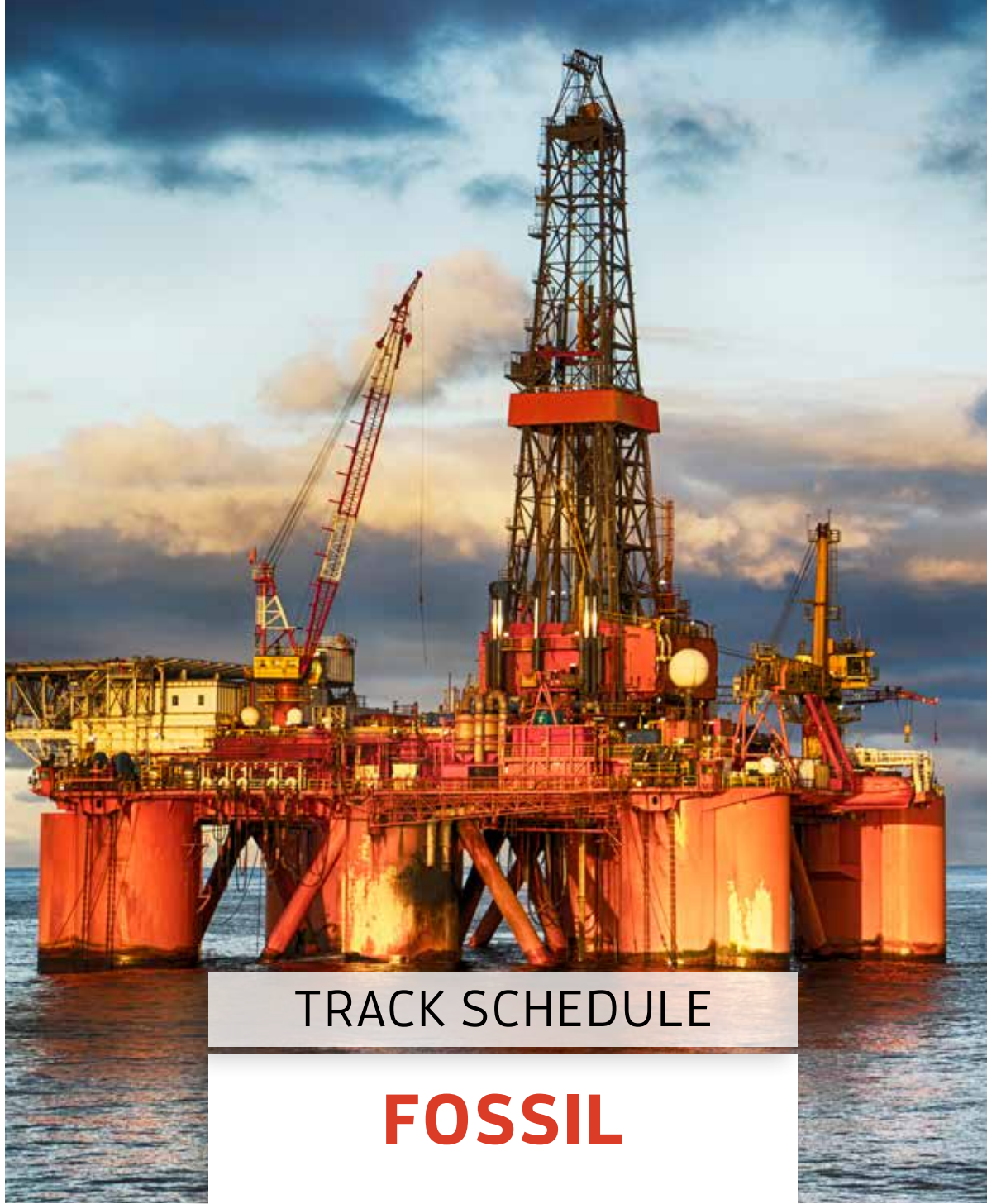
7:00 am – 8:00 am	<b>BREAKFAST</b>				Grand Bay South Ballroom
	<b>FOSSIL</b> <i>St. Petersburg II</i>	<b>HYDRO</b> <i>St. Petersburg III</i>	<b>NUCLEAR</b> <i>St. Petersburg I</i>	<b>T&amp;D</b> <i>Williams</i>	<b>SOLAR</b> <i>Demens</i>
8:00 am – 9:00 am	<b>FP8</b> (60 min.) Safety Case Studies	<b>HP6</b> (75 min.) Capital Investment vs. Depreciation	<b>NC8</b> (60 min.) NIID Enhancements	<b>TD7</b> (60 min.) TECH Crypto Currency Mining Impacts	<b>SC7</b> (60 min.) End of Site/Equipment Warranty Evaluation
8:15					
8:30					
8:45					
9:00 am – 9:45 am	<b>FP9</b> (45 min.) Process Safety Management	<b>HP7</b> (30 min.) Remote Operations/ Impact on Plant Operation, Maintenance and Administrative (OMA)	<b>NC9</b> (45 min.) Retrieval of Industry Data from NIID	<b>TD8</b> (45 min.) OPERATIONS Oncor's WaAM: Work and Asset Management System	<b>SC8</b> (45 min.) Data Submission Standardization
9:15					
9:30					
9:45 am – 10:15 am	<b>BREAK</b>				St. Pete Lobby
10:15 am – 11:15 am	<b>FP10</b> (60 min.) Plant Closure Case Study	<b>HP8</b> (60 min.) 10:00 am – 11:00 am Hydropower Fleet Intelligence — Use Case 1 Overview	<b>NC10</b> (60 min.) 10:00 am – 11:00 am Presentation and Discussion of Nuclear Aggregated Information Database (NAID)	<b>TD9</b> (45 min.) INNOVATION Exelon 2018 Innovation Expo Winner Demonstration – SLIQ	<b>SC9</b> (60 min.) Track Maintenance and Issues
10:30					
10:45					
11:00		<b>HP9</b> (60 min.) Asset Information Turnover at Chelan Public Utility District	<b>NC11</b> (60 min.) Major Issues Discussion/Discuss in Breakout Teams/ Finalize Wednesday Presentations	<b>TD10</b> (45 min.) INNOVATION Understanding Idea and Innovation Processes – Panel Discussion	<b>SC10</b> (45 min.) Results on Inverter Man. Power Electronics (Filtration System)
11:15 am – 12:00 pm	<b>FP11</b> (45 min.) Outage Best Practices				
11:30					
11:45					
12:00 pm – 1:00 pm	<b>LUNCH</b>				Grand Bay South Ballroom



	<b>FOSSIL</b> <i>St. Petersburg II</i>	<b>HYDRO</b> <i>St. Petersburg III</i>	<b>NUCLEAR</b> <i>St. Petersburg I</i>	<b>T&amp;D</b> <i>Williams</i>	<b>SOLAR</b> <i>Demens</i>
1:00 pm – 2:00 pm	<b>FP12</b> (45 min.) Gas Turbine Retrofits: Flexibility for Current & Future Power Market Needs	<b>HP10</b> (60 min.) Utilization of EUCG Data by Member Companies	<b>NC12</b> (60 min.) Outside Guest Speaker	<b>TD11</b> (60 min.) OPERATIONS Hurricane Michael Restoration Efforts	<b>SC11</b> (60 min.) Original Equipment Manufacture Inverter Strategies
1:15					
1:30					
1:45	<b>FP13</b> (60 min.) Monitoring & Diagnostic Centers				
2:00 pm – 2:45 pm		<b>HP11</b> (45 min.) Major Outage Survey — Preliminary Results	<b>NC13</b> (45 min.) Overview of the Process for Nuclear Innovation Identification and Information Gathering	<b>TD12</b> (45 min.) TECH Fault Location Information in the Control Room	<b>SC12</b> (45 min.) Maintenance Case Study
2:15					
2:30					
2:45 pm – 3:15 pm	<b>BREAK</b>			<i>St. Pete Lobby</i>	
3:15 pm – 4:00 pm	<b>FP14</b> (45 min.) Asset Management Best Practices	<b>HP12</b> (60 min.) 3:00 pm – 4:00 pm Review of Updates to HPC Data Guide and Reporting Instructions & Response to Questions	<b>NC14</b> (45 min.) 3:00 pm – 3:45 pm Innovation Data Collection Discussion	<b>TD13</b> (15 min.) OPERATIONS Transmission Facility Ratings Sampling Plan	<b>SC13</b> (45 min.) Lone Worker Process
3:30					
3:45			<b>NC15</b> (15 min.) Day Two Wrap-Up and Next Day Plan		
4:00 pm – 5:00 pm	<b>FP15</b> (30 min.) 2019 Fall Workshop Agenda Development			<b>TD14</b> (60 min.) Daily Wrap-Up and General Discussion	<b>SC13</b> (60 min.) Safety Case Study
4:15					
4:30	<b>FP16</b> (30 min.) Monitoring & Diagnostic Centers				
4:45					

## WEDNESDAY APRIL 10

7:00 am – 8:00 am	<b>BREAKFAST</b>				<i>Grand Bay South Ballroom</i>
	<b>FOSSIL</b> <i>St. Petersburg II</i>	<b>HYDRO</b> <i>St. Petersburg III</i>	<b>NUCLEAR</b> <i>St. Petersburg I</i>	<b>T&amp;D</b> <i>Williams</i>	<b>SOLAR</b> <i>Demens</i>
8:00 am – 9:00 am	<b>FP17</b> (45 min.) Plant Cybersecurity Programs	<b>HP13</b> (30 min.) 2019 Hydro Business Unit Safety Survey	<b>NC16</b> (60 min.) Member Company Innovation Presentations	<b>TD15</b> (45 min.) DATA Working in the Cloud	<b>SC15</b> (60 min.) Fall Workshop Agenda Planning
8:15					
8:30		<b>HP14</b> (30 min.) Data Review Meeting Plans—July 9-11, 2019, Hydro Quebec Offices, Montreal, QC			
8:45	<b>FP18</b> (30 min.) FGC Business Meeting			<b>TD16</b> (45 min.) OPERATIONS/TECH Victaulic Vortex Fire Suppression	
9:00 am – 9:45 am		<b>HP15</b> (45 min.) 2019 Fall Workshop Agenda Planning	<b>NC17</b> (45 min.) Major Nuclear Issues/Next Steps Presentations by Breakout Teams		<b>SC16</b> (45 min.) PVSC Roundtable & Action Item Review
9:15	<b>FP19</b> (30 min.) Wednesday/Workshop Debrief				
9:30				<b>TD17</b> (15 min.) Final Wrap-Up and General Discussion	
9:45 am – 10:15 am	<b>BREAK/CHECK-OUT</b>				<i>St. Pete Lobby</i>
10:15 am – 12:00 pm	<b>FP20</b> (105 min.) Fossil Steering Committee Meeting	<b>HP16</b> (30 min.) HPC Business Report	<b>NC18</b> (45 min.) Spring Workshop Wrap-Up & Roundtable	<b>TD17</b> (30 min.) Final Wrap-Up and General Discussion (Cont.)	<b>SC17</b> (45 min.) Wrap-Up
10:30					
10:45		<b>HP17</b> (30 min.) HPC Roundtable & Action Item Review		<b>TD18</b> (75 min.) Fall Agenda Build	
11:00			<b>NC19</b> (120 min.) Nuclear Leadership Team Meeting		
11:15		<b>HP18</b> (45 min.) HPC Leadership Meeting			
12:00 pm – 1:00 pm	<b>ADJOURN</b>				



TRACK SCHEDULE

**FOSSIL**

## MONDAY

8:00 am – 9:30 am	<b>EUCG General Session, Membership Meeting</b>	<i>Grand Bay North Ballroom</i>
9:30 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:00 am – 10:15 am	<b>FP1: Welcome/Introduction of Fossil Keynote Speaker</b>	<i>St. Petersburg II</i>
<b>Steve Royall</b> , Pacific Gas and Electric Company, <i>Fossil Committee Chair</i>		
10:15 am – 11:00 am	<b>FP2: Fossil Keynote</b>	<i>St. Petersburg II</i>
<b>Michelle Mozena</b> , Southern Company		
Michelle Mozena was named the General Manager of Environmental Operations & Compliance for Southern Company Technical Services in May 2012. In this role, Michelle is responsible for leading environmental controls planning and strategy, new environmental control technology development and providing technical support for existing environmental systems on the Southern Company generating fleet. She also leads the Fossil Networking Group's Environmental Section.		
Michelle started her career with Southern Company in 2003 as an Engineer in Environmental Affairs at Alabama Power Company. In 2006, she was named Compliance and Support Manager at Alabama Power Company's Plant Miller. She also held positions as Operations Team Leader and Engineering and Planning Manager while at Plant Miller. In 2009, she moved to Georgia Power Company's Plant Wansley where she led the maintenance department. She was asked to serve as the assistant to the Chief Operating Officer in 2010. Prior to joining Southern Company she worked as an Environmental Engineer for TRC Environmental Corporation. She also worked in Project Management for Digital Training Sciences Corporation and Plant Engineering for Milliken and Company		
Michelle attended Auburn University where she earned a degree in Chemical Engineering. She serves the community through the Kiwanis Club of Helena, Arthritis Foundation, American Cancer Society, Society of Women Engineers, iCan—Girls in Engineering, and Auburn University's 100 Women Strong—Women in Engineering Program.		
11:00 am – 12:00 pm	<b>FP3: Fossil Best Practices Awards</b>	<i>St. Petersburg II</i>
<b>Best Practices Awards Company Representatives</b>		
The FGC will present Fossil Best Practices Awards to recognize processes and programs that have reduced cost, enhanced revenue, or improved performance, safety, or otherwise improved the health of EUCG member companies. Representatives of the award-winning organizations will be invited to make presentations about their best practices.		
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South</i>

1:00 pm – 2:00 pm	<b>FP4: Predictive Maintenance Programs</b>	<i>St. Petersburg II</i>
<p><b>Gavin Love</b>, Southern Company  <b>Steve Royall</b>, Pacific Gas and Electric Company, <i>Fossil Committee Chair</i>  <b>David Thornock</b>, CMS Energy</p> <p>A well-defined and -executed predictive maintenance program saves time and money by reducing unneeded time-based maintenance tasks and by identifying and addressing problems before unexpected equipment failures occur. In this session, panelists will describe their companies' predictive maintenance programs and explain the programs' effects on cost, efficiency and availability.</p>		
2:00 pm – 2:45 pm	<b>FP5: Leader in the Field Program</b>	<i>St. Petersburg II</i>
<p><b>Steve Royall</b>, Pacific Gas and Electric Company, <i>Fossil Committee Chair</i></p> <p>During this session, Steve Royall will describe PG&amp;E's Leader in the Field program and explore methods used to promote active field participation by all levels of leadership. This participation allows for a better safety focus and a greater understanding of the risks that teams in the field face daily. Pre-job safety planning, job-specific training, safety observations, and supportive coaching are all elements to be discussed.</p>		
2:45 pm – 3:15 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:15 pm – 4:00 pm	<b>FP6: Steam Cycle Air-Inleakage: Mechanical Issues Affecting Cycle Chemistry &amp; Heat Rate</b>	<i>St. Petersburg II</i>
<p><b>Kurt Bayburt</b>, Arizona G&amp;T Cooperatives</p> <p>Steam generating unit availability, reliability, and efficiency rely on both mechanical equipment condition and cycle chemistry, and these two are closely interrelated. Air removal and air exclusion equipment performance can degrade over time, causing abnormal chemistry conditions which, if left uncorrected, lead to long-term reliability issues. The root mechanical deficiencies can be a result of lack of maintenance or changes in operational conditions. Correcting these deficiencies requires a thorough understanding of the processes and equipment operation as well as a continuous performance monitoring program development. This presentation will address multiple air-inleakage issues encountered at Apache Generating Station, including the performance metrics evaluated and the steps taken to rectify to root cause. Examples include condenser vacuum pump and steam jet air ejector, condenser hood expansion joint, and condensate pump mechanical seals. Correction of these issues has led to more consistent cycle chemistry control and improved unit heat rate.</p>		
4:00 pm – 4:30 pm	<b>FP7: Monday Debrief</b>	<i>St. Petersburg II</i>
<p><b>Don Barnett</b>, CPS Energy</p> <p>Workshop delegates will participate in a daily debrief to capture key ideas and takeaways from the day's sessions.</p>		
5:30 pm – 9:00 pm	<b>Monday Evening Networking Event</b>	<i>Park &amp; Rec</i>



## TUESDAY

8:00 am – 9:00 am **FP8: Safety Case Studies** *St. Petersburg II*

**Joseph Sales**, Tennessee Valley Authority  
**David Thornock**, CMS Energy

During this session, representatives from FGC member utilities will present safety case studies. A presentation might focus on a specific event, describe a general plant safety issue such as the use of improvised tools or lone worker safety, or outline a company's safety improvement efforts.

9:00 am – 9:45 am **FP9: Process Safety Management** *St. Petersburg II*

**Ian Mylenbusch**, Southern Company

This session will highlight Southern Company's Process Safety Management journey. Focus areas will be the realization and understanding of the risks associated with highly hazardous chemicals, understanding what process safety management is, chemical reagent substitution analysis, evaluation of internal programs, corrective measures and processes put in place, and an update on where the company is today.

9:45 am – 10:15 am **BREAK** *St. Pete Lobby*

10:15 am – 11:15 am **FP10: Plant Closure Case Study** *St. Petersburg II*

**Don Barnett**, CPS Energy  
**Andrew Campbell**, Tennessee Valley Authority

This session will focus on the strategies that utilities use to prepare for large planned unit outages. These outages typically represent a large concentrated expenditure of resources (both labor and dollars). During the session, panelists will discuss how they are organized for planning outages as well as the tools they use to ensure they are prepared to execute those outages.

11:15 am – 12:00 pm **FP11: Outage Best Practices** *St. Petersburg II*

**Steve Finch**, Salt River Project  
**David Thornock**, CMS Energy

This session will focus on the strategies that utilities use to prepare for large planned unit outages. These outages typically represent a large concentrated expenditure of resources (both labor and dollars). During the session, panelists will discuss how they are organized for planning outages as well as the tools they use to ensure they are prepared to execute those outages.

12:00 pm – 1:00 pm **LUNCH** *Grand Bay South*

1:00 pm – 1:45 pm **FP12: Gas Turbine Retrofits: Flexibility for Current & Future Power Market Needs** *St. Petersburg II*

**RuthAnn Rawlings**, PSM

Power companies are being tasked to meet the demands of a more environmentally conscious market while providing competitive prices in a power market that is unpredictable and that fluctuates daily. These challenges have emphasized the importance of effective portfolio and risk management, in particular with the installed base of gas turbine power plants. Identifying the right technology that offers enhanced operational flexibility and reliability to meet business and strategic objectives is the challenge. During this session, RuthAnn Rawlings from PSM will describe two retrofits for F- and G-Class gas turbines that can be installed together or separately to increase flexibility and improve output and efficiency. Ms. Rawlings will provide examples of these retrofits currently operating in F-Class gas turbine power plants.

1:45 pm – 2:45 pm	<b>FP13: Monitoring &amp; Diagnostic Centers</b>	<i>St. Petersburg II</i>
<b>Leeth DePriest</b> , Southern Company <b>Ben Zimmerman</b> , Tennessee Valley Authority Panelists from FGC member utilities will make short presentations on how their utilities use real-time performance monitoring and diagnostic data for early detection and diagnosis of plant equipment and performance issues.		
2:45 pm – 3:15 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:15 pm – 4:00 pm	<b>FP14: Asset Management Best Practices</b>	<i>St. Petersburg II</i>
<b>Phil Cantarinha</b> , Pacific Gas and Electric Company This session will focus on best practices used to maintain safe and reliable operations at a combined cycle and coal facility. Possible topics include high energy piping programs, critical spare parts inventory levels, and proactive measures that members can take to ensure safe and reliable plant operation.		
4:00 pm – 4:30 pm	<b>FP15: 2019 Fall Workshop Agenda Development</b>	<i>St. Petersburg II</i>
<b>Don Barnett</b> , CPS Energy Don Barnett, the FGC Vice Chairman and Agenda Coordinator, will facilitate a session devoted to planning the committee's agenda for the EUCG 2019 Fall Workshop on September 15–18 in New Orleans, Louisiana. During the planning process, members will vote on agenda topics and identify surveys to update. The committee will recruit speakers, panelists, and survey sponsors for the most popular workshop topics.		
4:30 pm – 5:00 pm	<b>TUESDAY DEBRIEF</b>	<i>St. Petersburg II</i>
<b>Don Barnett</b> , CPS Energy Workshop delegates will participate in a daily debrief to capture key ideas and takeaways from the day's sessions.		



## WEDNESDAY

8:00 am – 8:45 am **FP17: Plant Cybersecurity Programs** *St. Petersburg II*

**Ben Zimmerman**, Tennessee Valley Authority

Cybersecurity is a hot topic these days and for good reason: according to a recent survey conducted by PricewaterhouseCoopers, the number of detected information security incidents has risen globally more than 65% year over year since 2009. This session will focus on the cybersecurity risks utilities are facing today and what measures are being taken to mitigate these risks.

8:45 am – 9:15 am **FP18: FGC Business Meeting** *St. Petersburg II*

**Steve Royall**, Pacific Gas and Electric Company, *Fossil Committee Chair*

Steve Royall, FGC Chairman, will present highlights from the EUCG Board of Directors meeting in January, discuss developments in the areas of policy and personnel changes, present financial and membership reports, and solicit member input for the Board of Directors meeting on Wednesday afternoon.

9:15 am – 9:45 am **Wednesday/Conference Debrief** *St. Petersburg II*

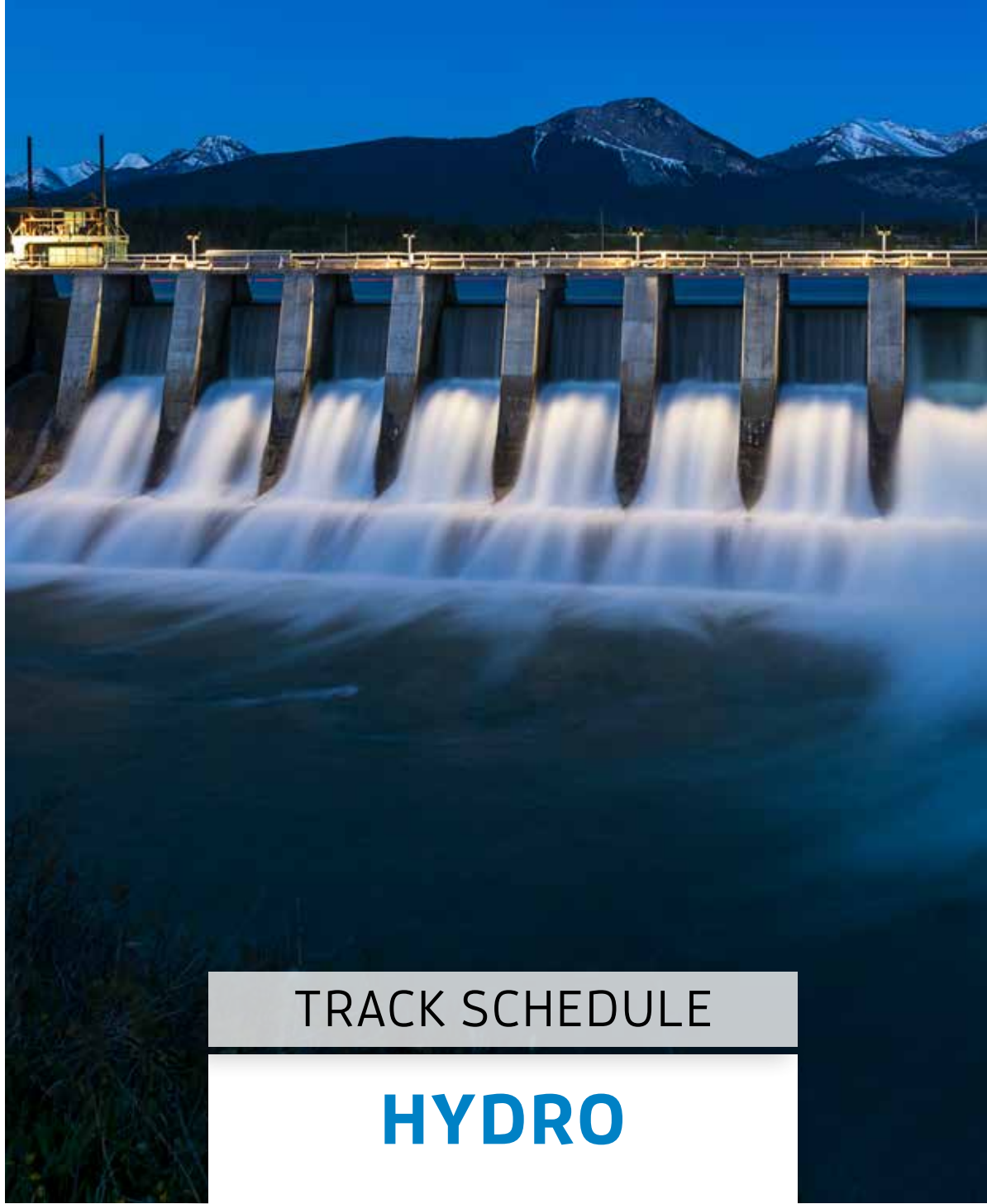
**Don Barnett**, CPS Energy

Workshop delegates will participate in a debrief to capture key ideas and takeaways from the day's sessions and to assess the workshop as a whole.

9:45 am – 10:15 am **BREAK/ADJOURN FOSSIL TRACK** *St. Pete Lobby*

10:15 am – 12:00 pm **Fossil Steering Committee Meeting** *St. Petersburg II*

12:00 pm **ADJOURN**



TRACK SCHEDULE

**HYDRO**

## MONDAY

8:00 am – 9:30 am	<b>EUCG General Session, Membership Meeting</b>	<i>Grand Bay North Ballroom</i>
9:30 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:00 am – 11:15 am	<b>HP1: Introductions and Business Updates/Address from HPC Chairman</b>	<i>St. Petersburg III</i>
<p><b>Chris Utracki</b>, Ontario Power Generation, <i>Hydro Productivity Committee Chair</i></p> <p>Introductory session will give new members the opportunity to introduce themselves and their companies, and for all members to share any business updates and “headline news” happening at their companies. The Committee welcomes three new member companies and our new members will have the opportunity to present their company business profiles.</p>		
11:15 am – 12:00 pm	<b>HP2: Study of the Costs of Cycling Operations at Seattle City Light</b>	<i>St. Petersburg III</i>
<p><b>Marcus Cunningham</b>, Seattle City Light</p> <p>As renewable energy resources contribute additional capacity to support the electric grid, different operational modes result. Since hydropower units are very adaptive to changing load requirements, their operation becomes more cyclic. Utilities are concerned about the impact of this change on equipment health and maintenance costs. Mr. Cunningham will talk about the work SCL has undertaken to determine these impacts and the associated expenditure forecasts.</p>		
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 1:45 pm	<b>HP3: Lessons Learned from the Cost &amp; Performance Data Process</b>	<i>St. Petersburg III</i>
<p><b>Clark Bishop</b>, United States Bureau of Reclamation</p> <p>For the past several years, the BoR has been implementing several unit upgrades and equipment replacements at Grand Coulee Dam. Mr. Bishop will talk about the techniques and processes utilized to manage these projects.</p>		
1:45 pm – 2:45 pm	<b>HP4: Small Hydro Divesture Program at Pacific Gas and Electric Company</b>	<i>St. Petersburg III</i>
<p><b>Stephanie Maggard</b>, Pacific Gas and Electric Company</p> <p>Due to changes in the California electric market, PG&amp;E has been evaluating the economic viability of its fleet of hydropower resources. Ms. Maggard will provide insight into the process used and some of the results along with the actions taken to date.</p>		
2:45 pm – 3:00 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:00 pm – 4:00 pm	<b>HP5: HPC 2018 Annual Report Draft Review and Discussion</b>	<i>St. Petersburg III</i>
<p><b>Jim Miller</b>, Oak Ridge National Laboratory  <b>Gbadebo Oladosu</b>, Oak Ridge National Laboratory  <b>Matthew Weathers</b>, Oak Ridge National Laboratory</p> <p>During this session the draft 2018 HPC Annual Cost and Performance Report will be reviewed. HPC members will be afforded an opportunity to ask questions and provide comments and suggestions for the final edition.</p> <p>Also, Mr. Weathers will present background of some more interesting analyses he has done on cost and performance data.</p>		
5:30 pm – 9:00 pm	<b>Monday Evening Networking Event</b>	<i>Park &amp; Rec</i>



## TUESDAY

8:00 am – 9:15 am **HP6: Capital Investment vs. Depreciation** *St. Petersburg III*

**Patrice Blais**, Hydro Quebec

**Greg Bosscawen**, Pacific Gas and Electric Company

Since 2010, EUCG's Hydroelectric Productivity Committee has been collecting plant level Asset Value and Depreciation data. Messrs. Bosscawen, PG&E and Blais, HQ will discuss use of such data by their respective companies.

9:15 am – 9:45 am **HP7: Remote Operations/Impact on Plant Operation, Maintenance and Administrative (OMA) Expenses and Performance Survey Results** *St. Petersburg III*

**Rob Mager**, Ontario Power Generation

Earlier this year, a survey was conducted to examine additional operating expenditures incurred by remote plants. Mr. Mager will sum up the responses received and provide additional insights based on regression analyses. He will also discuss the methodology and comment on how to improve value of the information obtained from this survey.

9:45 am – 10:00 am **BREAK** *St. Pete Lobby*

10:00 am – 11:00 am **HP8: Hydropower Fleet Intelligence—Use Case 1 Overview** *St. Petersburg III*

**Gbadebo Oladosu**, Oak Ridge National Laboratory

The Hydropower Fleet Intelligence (HFI) project is sponsored by the Department of Energy and addresses multiple challenges that arise within strategic analysis for hydropower asset decision-making. Those challenges include definitions, data availability, data quality, data alignment, parameterization of asset models, determination of parameter values, analysis of uncertainties, and interpretation of results by analysts and decision-makers. Dr. Oladosu will discuss this project, in particular the Use Case 1, which will examine the effects of variable operations of hydropower units in the electric grid with an increasing participation from renewable resources.

11:00 am – 12:00 pm **HP9: Asset Information Turnover at Chelan Public Utility District** *St. Petersburg III*

**Janel Ulrich**, Chelan Public Utility District

Chelan PUD is in the midst of executing equipment replacement program. Ms. Ulrich will discuss business case analysis associated with this program.

12:00 pm – 1:00 pm **LUNCH** *Grand Bay South Ballroom*

1:00 pm – 2:00 pm **HP10: Utilization of EUCG Data by Member Companies** *St. Petersburg III*

**Patrice Blais**, Hydro Quebec

**Greg Bosscawen**, Pacific Gas and Electric Company

The HPC cost and performance database and ad hoc surveys comprise a unique resource for utility members to use within their business and operational planning. Messrs. Blais and Bosscawen will summarize the utilization of the HPC information within their utilities.

2:00 pm – 2:45 pm **HP11: Major Outage Survey—Preliminary Results** *St. Petersburg III*

**David Brandt**, Ontario Power Generation

Since the 2018 Fall Workshop, several HPC members have developed a survey on the scope, processes, resources and results of major unit outages within their facilities. The survey was forwarded to the entire HPC and a number of responses have been received. The preliminary results observed to date will be discussed. More responses are needed and the plan is to finalize it at the upcoming fall workshop.

2:45 pm – 3:00 pm **BREAK** *St. Pete Lobby*

**TUESDAY** *(continued)*

3:00 pm – 4:00 pm	<b>HP12: Review of Updates to HPC Data Guide and Reporting Instructions &amp; Response to Questions</b>	<i>St. Petersburg III</i>
-------------------	---	---------------------------

**David Sanna**, United States Army Corps of Engineers

The HPC Data Guide is the reference utilized by HPC members for their submission of cost and performance data. As the guide is used by HPC members, questions arise and are discussed at the Data Review Meetings. Any items that require clarification are forwarded to Mr. Sanna, HPC Vice Chair who serves as the Data Guide's editor. Any revisions to the guide are made annually with updated versions issued in January or February of each year. Mr. Sanna will review the most recent revisions to the guide that was issued this year. This session will be a good opportunity for HPC members to raise any questions about the definitions and interpretations of data elements required in data submissions.

**WEDNESDAY**

8:00 am – 8:30 am	<b>HP13: 2019 Hydro Business Unit Safety Survey</b>	<i>St. Petersburg III</i>
-------------------	---	---------------------------

**Jim Miller**, Oak Ridge National Laboratory

Since 2007, EUCG's Hydroelectric Productivity Committee and the National Hydropower Association Hydraulic Power Committee have been jointly conducting an annual Safety Survey of the hydro industry. The results of the 2019 (2018 data) survey will be provided.

8:30 am – 9:00 am	<b>HP14: Data Review Meeting Plans—July 9–11, 2019, Hydro Quebec Offices, Montreal, QC</b>	<i>St. Petersburg III</i>
-------------------	--	---------------------------

**Patrice Blais**, Hydro Quebec

**Matt Dau**, United States Army Corps of Engineers

Mr. Dau will provide an overview of the processes for the peer review and report on the results of the 2018 review. They will also discuss the preparations that each representative should complete prior to the meeting. Utilities will have an opportunity to provide feedback on the outcomes of 2018 and suggest changes for 2019. The meeting location and logistics will be discussed by Mr. Blais.

9:00 am – 9:45 am	<b>HP15: 2019 Fall Workshop Agenda Planning</b>	<i>St. Petersburg III</i>
-------------------	---	---------------------------

During this session we will develop the initial agenda for the fall 2019 HPC meeting which will be held in New Orleans, Louisiana September 15–18, 2019. Please come prepared to suggest topics that you would like discussed or where you have something to share with the rest of the committee.

9:45 am – 10:15 am	<b>BREAK/CHECK-OUT</b>	<i>St. Pete Lobby</i>
--------------------	------------------------	-----------------------

10:15 am – 10:45 am	<b>HP16: HPC Business Report</b>	<i>St. Petersburg III</i>
---------------------	----------------------------------	---------------------------

**Chris Utracki**, Ontario Power Generation, *Hydro Productivity Committee Chair*

During this session we will discuss the Committee's business matters.

10:45 am – 11:15 am	<b>HP17: HPC Roundtable &amp; Action Item Review</b>	<i>St. Petersburg III</i>
---------------------	--	---------------------------

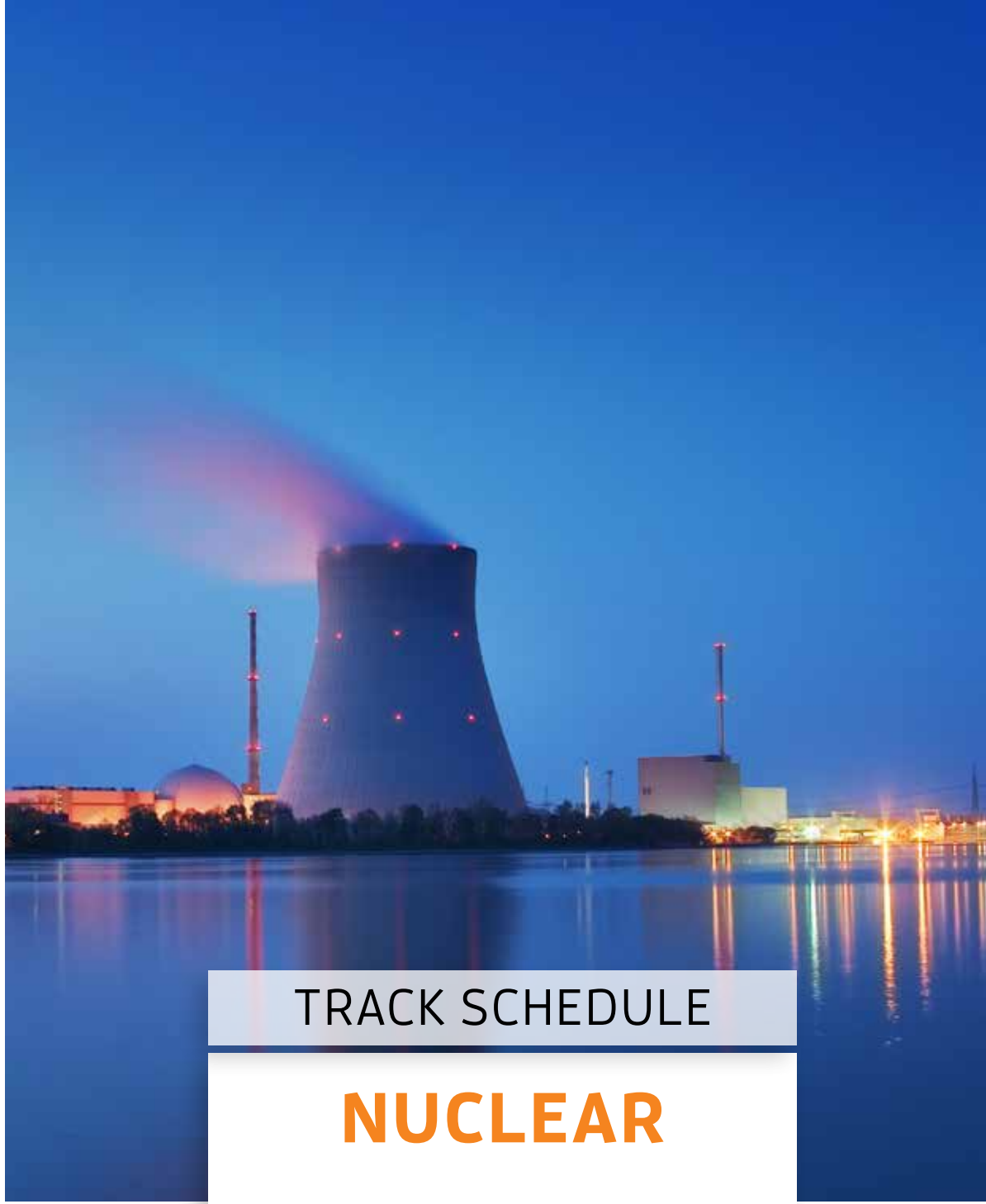
**Chris Utracki**, Ontario Power Generation, *Hydro Productivity Committee Chair*

During this time, HPC members will be afforded the opportunity to share their feedback on the workshop. Also, any action items taken during the workshop will be reviewed with the responsible committee member and due dates noted.

11:15 am – 12:00 pm	<b>HP18: HPC Leadership Meeting</b>	<i>St. Petersburg III</i>
---------------------	-------------------------------------	---------------------------

**Chris Utracki**, Ontario Power Generation, *Hydro Productivity Committee Chair*

The HPC leadership utilizes this opportunity to discuss HPC internal matters and is open to all HPC members.



TRACK SCHEDULE

**NUCLEAR**

## MONDAY

8:00 am – 9:30 am	<b>EUCG General Session, Membership Meeting</b>	<i>Grand Bay North Ballroom</i>
9:30 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:00 am – 11:00 am	<b>NC1: Introductions, General Business &amp; 2019 Strategic Plan Update</b>	<i>St. Petersburg I</i>
<p><b>David Ward</b>, Duke Energy, <i>Nuclear Committee Chair</i></p> <p>David Ward will kick-off the Nuclear Committee session of the Spring 2019 Nuclear Workshop, by facilitating the introduction of the workshop attendees, highlighting the workshop agenda and providing members with an update on the Nuclear Committee's business and related issues including the highlights of the EUCG Nuclear Committee 2019 Strategic Plan.</p>		
11:00 am – 12:00 pm	<b>NC2: Presentation of Member Issues</b>	<i>St. Petersburg I</i>
<p><b>David Ward</b>, Duke Energy, <i>Nuclear Committee Chair</i></p> <p>David Ward will present the issues submitted by members prior to the workshop. The request for issues was sent to each member company's Primary Representative and Management Sponsor. This is to present items only, with more detailed discussion to occur in NC3. The process to collect, disseminate and resolve issues will be included in the NC11 session.</p>		
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 1:45 pm	<b>NC3: Major Nuclear Issues Discussion to Determine Major Topics for Potential Workshop Breakout Sessions</b>	<i>St. Petersburg I</i>
<p><b>David Ward</b>, Duke Energy, <i>Nuclear Committee Chair</i></p> <p>David Ward will continue the discussion regarding the issues submitted by members in order to determine those deemed to be Major Issues. The issues will be discussed and ranked to effectively utilize the experienced resources present at the workshop. There are typically a maximum of 4 Major Issues addressed at each workshop, given the resources available. Workshop attendees will choose which issue they will work on and then the collected "breakout" teams will determine the purpose/scope/team logistics for the assigned Major Issue. The expectation is that the Breakout Team members will present their proposals/resolution at the close of the workshop on Wednesday morning during NC17 session.</p>		
1:45 pm -2:45 pm	<b>NC4: NextEra Continuous Improvement Program</b>	<i>St. Petersburg I</i>
<p><b>Frank Burke</b>, NextEra</p> <p>Changes in the Nuclear industry environment circa 2009-2011 triggered NextEra's Continuous Improvement Program in 2012. It has been ongoing since then with the focus to achieve sustainable, excellent performance and to reduce inefficiencies. Evolution of the program began with Fleet centralization, improving technology and embracing Machine Learning and Artificial Intelligence in its latest iteration.</p>		
2:45 pm – 3:00 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>

3:00 pm – 3:45 pm	<b>NC5: Top Industry Performer (TIP) Award Presentation</b>	<i>St. Petersburg I</i>
	<b>Christine Johnsen</b> , North American Young Generation in Nuclear <p>With a 28% increase in total generation cost for US reactors in the last decade, along with the struggle for some plants to remain competitive, the nuclear industry is facing a big challenge. North American Young Generation in Nuclear (NAYGN), wants to be a part of the solution to this challenge and help ensure that nuclear power remains a vital, innovative, and cost effective part of America's energy portfolio. The NAYGN Impact initiative was born out of the desire to align the efforts of the NAYGN organization with the priorities of the industry. Christine Johnsen, NAYGN President, will provide insight to this organization and current initiatives which was presented a Nuclear Energy Institute TIP award in 2018. First introduced in 2016 at the annual Nuclear Energy Assembly, local NAYGN chapters and members were asked to reflect on the culture shift within the industry and become a part of the change the nuclear industry needs. As The NAYGN Impact has evolved over the past three years, members have been defining and redefining the impact they want to have on both a local and national level and evolving what it means to be a young nuclear professional in today's changing industry.</p>	
3:45 pm – 4:30 pm	<b>NC6: Crystal River Decommissioning Process</b>	<i>St. Petersburg I</i>
	<b>Kenna Ankrum</b> , Crystal River Duke Energy, <i>Manager Finance</i> <p>Kenna Ankrum will present the decommissioning process being conducted at the Crystal River Nuclear Station located in Florida. Topics to be covered are an overview of the conditions leading to Crystal River being decommissioned, overview of current workforce on site, work being performed, and status of decommissioning process, transition factors from an operating plant to a decommission phase. Also presented will be any significant barriers or adverse conditions that were encountered during the transition and how they were mitigated along with sharing of best practices with other companies getting ready to go through decommission.</p>	
4:30 pm – 4:45 pm	<b>NC7: Day One Wrap-Up and Next Day Plan</b>	<i>St. Petersburg I</i>
	<b>Peter Risteen</b> , Bruce Power, <i>Nuclear Committee Vice-Chair</i> <p>Peter Risteen will close the day's sessions with a wrap-up and next day highlights. At the conclusion of this session there will be an opportunity for members to network with their counterparts to discuss details/answers to questions raised in NC2.</p>	
5:30 pm – 9:00 pm	<b>Monday Evening Networking Event</b>	<i>Park &amp; Rec</i>
<b>TUESDAY</b>		
8:00 am – 9:00 am	<b>NC8: NIID Enhancements</b>	<i>St. Petersburg I</i>
	<b>Christine Messer</b> , <i>Nuclear Committee Database Manager</i> <p>Christine Messer will provide an update on the enhancements and upgrades to the NIID. These include enhancements to the data definition, new reports, and training tools.</p>	
9:00 am – 9:45 am	<b>NC9: Retrieval of Industry Data from NIID</b>	<i>St. Petersburg I</i>
	<b>Christine Messer</b> , <i>Nuclear Committee Database Manager</i> <p>Christine Messer will facilitate a "hands-on" exercise session by using examples to access and retrieve nuclear industry data from the Nuclear Integrated Information Database (NIID). Data request scenarios will be presented with attendees assisting with determining the steps required to efficiently retrieve the desired results from the test examples.</p>	
9:45 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>



**TUESDAY (continued)**

10:00 am – 11:00 am	<b>NC10: Presentation and Discussion of Nuclear Aggregated Information Database (NAID)</b>	<i>St. Petersburg I</i>
<p><b>Christine Messer</b>, <i>Nuclear Committee Database Manager</i>  <b>David Ward</b>, <i>Duke Energy, Nuclear Committee Chair</i></p> <p>An overview of the recently implemented Nuclear Aggregated Information Database (NAID) will be provided along with a discussion on the future usage of this new product. NAID retrieves the same data as the Nuclear Integrated Information Database (NIID) and displays information in a non-confidential and aggregated format. The first part of the presentation will consist of report generation and data retrieval with the second part being a discussion on how this product will be used and who will have access to it.</p>		
11:00 am – 12:00 pm	<b>NC11: Major Issues Discussion/Discuss in Breakout Teams/Finalize Wed. Presentations</b>	<i>St. Petersburg I</i>
<p><b>David Ward</b>, <i>Duke Energy, Nuclear Committee Chair</i></p> <p>The Major Issues Breakout Teams discuss and develop how the identified issue will be handled. The team needs to clarify the issue, problem statement and desired benefit along with the expected end product. The team needs to identify how they see the issue being resolved. Teams prepare a short presentation of findings and recommendations for delivery at the NC17 session.</p>		
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 2:00 pm	<b>NC12: Outside Guest Speaker</b>	<i>St. Petersburg I</i>
<p><b>Brian S. West</b>, <i>Publix Super Markets, Inc., Media and Community Relations Manager</i></p> <p>At each workshop, we bring in a guest from a different industry/market which has a large presence near the location of the workshop. This gives us a chance to hear different perspectives in the business community and potentially learn new information and ideas which could be used for improvement. This also helps build knowledge and a sense of connection to the area in which the workshop is being held.</p> <p>The guest speaker at this workshop will be Brian S. West, Media and Community Relations Manager with Publix Super Markets, Inc.</p>		
2:00 pm – 2:45 pm	<b>NC13: Overview of the Process for Nuclear Innovation Identification and Information Gathering</b>	<i>St. Petersburg I</i>
<p><b>Darrell Negley</b>, <i>PSEG</i></p> <p>We are operating in an environment where being innovative, cost conscious, and more efficient are no longer niceties. We will discuss the structure that is being formalized for capturing and sharing the various innovative and efficiency ideas, in order to make this initiative a standard part of each workshop moving forward.</p>		
2:45 pm – 3:00 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:00 pm – 3:45 pm	<b>NC14: Innovation Data Collection Discussion</b>	<i>St. Petersburg I</i>
<p>Workshop attendees will be divided into small groups to discuss data collection and storing process to address the following question “How should EUCG collect, search, and store innovative ideas for the Nuclear Industry?”</p>		
3:45 pm – 4:00 pm	<b>NC15: Day Two Wrap-Up and Next Day Plan</b>	<i>St. Petersburg I</i>
<p><b>Peter Risteen</b>, <i>Bruce Power, Nuclear Committee Vice-Chair</i></p> <p>Peter Risteen will close the day’s sessions with a wrap-up and next day highlights. Breakout teams can utilize the time after this session to finalize presentations for Wednesday morning.</p>		

## WEDNESDAY

8:00 am – 9:00 am **NC16: Member Company Innovation Presentations** *St. Petersburg I*

Member company representatives will present details regarding their respective innovation, efficiency, and cost savings initiatives. These initiatives are collected and will be available to member companies via the Innovation, Efficiency, and Cost Savings (ICE) database.

9:00 am – 9:45 am **NC17: Major Nuclear Issues/Next Steps Presentations by Breakout Teams** *St. Petersburg I*

**David Ward**, Duke Energy, *Nuclear Committee Chair*

The Breakout Team Leads will present the findings and potential next steps for their respective issue. The attendees provide feedback on the presentations. The draft charters, if applicable, are provided to the Nuclear Chair for discussion with the Nuclear Leadership Team regarding disposition (resources, timelines etc.) at the Nuclear Leadership Team meeting.

9:45 am – 10:15 am **BREAK/CHECK-OUT** *St. Pete Lobby*

10:15 am – 11:00 am **NC18: Spring Workshop Wrap-Up & Roundtable** *St. Petersburg I*

**Peter Risteen**, Bruce Power, *Nuclear Committee Vice-Chair*

Solicit member feedback on the workshop content and facilities; and officially close the workshop.

11:00 am – 1:00 pm **Nuclear Leadership Team Meeting** *St. Petersburg I*

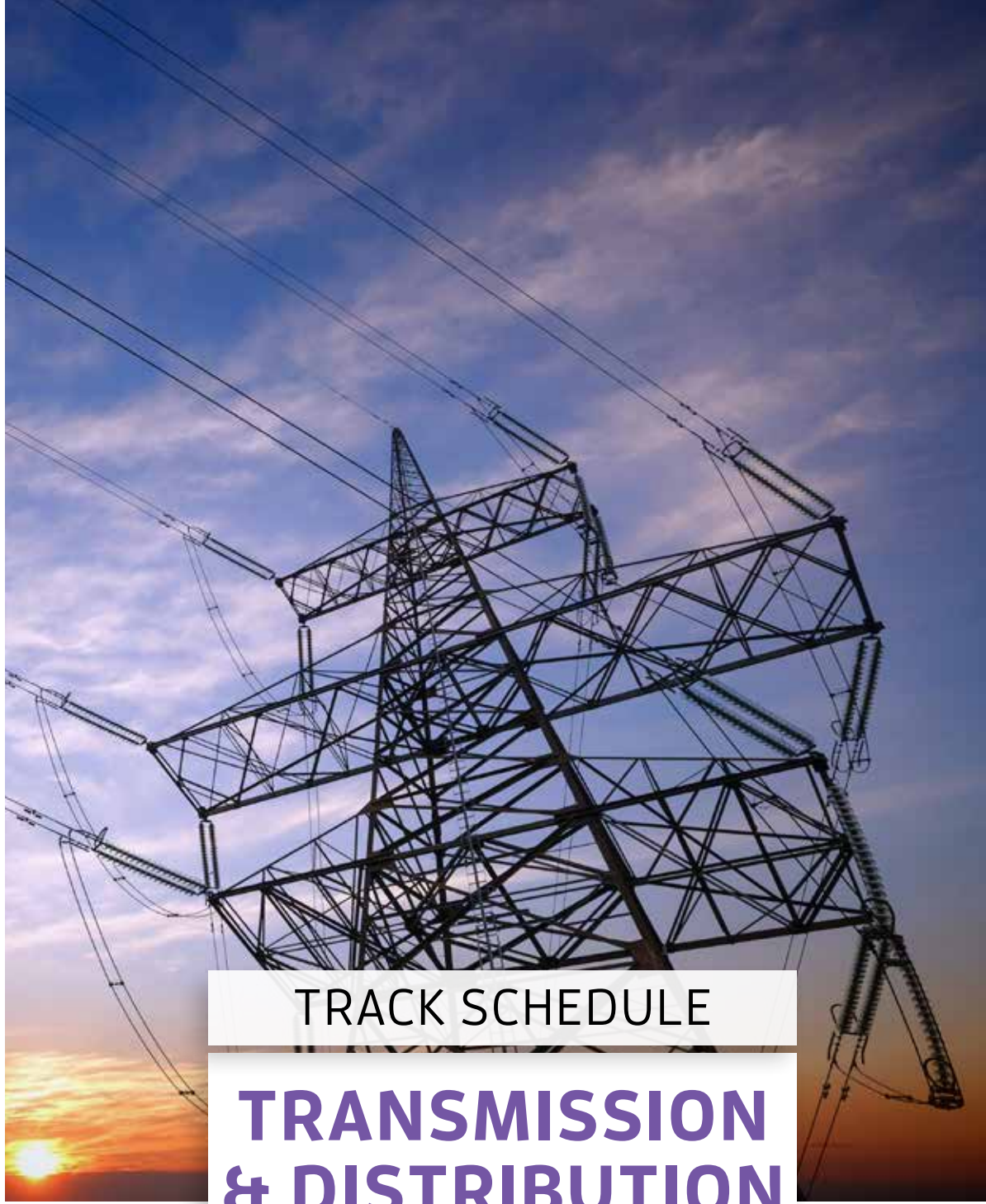
*Nuclear Leadership Team Members (only)*







**EUCG 2019** | SPRING WORKSHOP



TRACK SCHEDULE

**TRANSMISSION  
& DISTRIBUTION**

# MONDAY

8:00 am – 9:30 am	<b>EUCG General Session, Membership Meeting</b>	<i>Grand Bay North Ballroom</i>
9:30 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:00 am – 11:00 am	<b>TD1: Welcome &amp; Introductions</b>	<i>Williams</i>
	<b>Eileen Brannon</b> , Oncor, <i>T&amp;D Committee Chair</i> This session will include introductions of attending utilities and a discussion of their expectations for the week. Other items included in this session will be: Updates on T&D Committee business and laying the groundwork for future T&D Sessions.	
11:00 am – 12:00 pm	<b>TD2: Host City Utility Greetings: Duke Energy—Florida</b>	<i>Williams</i>
	We will hear from a representative of Duke—Florida operations area.	
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 2:00 pm	<b>TD3: DATA — Gathering and Normalization of Data</b>	<i>Williams</i>
	<b>Wendy Dobbs</b> , Alabama Power Company This session will be a discussion of the processes, tools and analysis APC uses when collecting and normalizing data for reporting and benchmarking.	
2:00 pm – 2:45 pm	<b>TD4: SAFETY — Safety Issues Resolution on Communication Entity Attachments to Transmission Structures</b>	<i>Williams</i>
	<b>Martin Narendorf</b> , CenterPoint Energy CenterPoint Energy (CNP) licenses the use of transmission structures to private communication entities for the installation and operation of communication facilities. These installations vary somewhat from the more traditional transmission facility work that company personnel are engaged in on a routine basis. CNP has had some challenges with safe work practices and facility considerations performing this work. In this presentation, CNP will present efforts undertaken in 2018 to analyze the work practices and steps taken to enhance facility safety and safety training and awareness related to this work.	
2:45 pm – 3:15 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:15 pm – 4:15 pm	<b>TD5: OPERATIONS — Tableau Demonstration</b>	<i>Williams</i>
	<b>Dan Watson</b> , Oncor Tableau continues to grow in use across the industry as a data visualization tool. Several member companies have presented static imagery of visualizations they have done in previous presentations. This will be a live demonstration of data usage, with real world operational cases.	
4:15 pm – 5:00 pm	<b>TD6: Daily Wrap-Up and General Discussion</b>	<i>Williams</i>
	<b>Eileen Brannon</b> , Oncor, <i>T&amp;D Committee Chair</i> Time will be taken to discuss the day's activities: Were expectations met? What additional information might be of help? What new topics have come up as a result of these discussions?	
5:30 pm–9:00 pm	<b>Monday Evening Networking Event</b>	<i>Park &amp; Rec</i>



## TUESDAY

8:00 am – 9:00 am	<b>TD7: TECH — Crypto Currency Mining Impacts</b>	<i>Williams</i>
	<b>Martin Narendorf</b> , CenterPoint Energy <p>CenterPoint Energy (CNP) has seen a rapid increase in cryptocurrency mining operations in its electric service territory generating a number of issues related to the reliable operation of the distribution system. These load additions often go unannounced and the first indication of an issue is when an outage due to overload, fire, or other event occurs. Often the customer with the cryptocurrency mining operation does not understand the limitations of the distribution system and the need to inform the utility of the load increases being added to their service. CNP will present some of the case studies that it has dealt with, the impacts to the distribution system and solutions employed to alleviate the loading issues. New approaches to dealing with this issue will be provided including educating the public and new methods to deal with providing service to these customers.</p>	
9:00 am – 9:45 am	<b>TD8: OPERATIONS — Oncor's WaAM: Work and Asset Management System</b>	<i>Williams</i>
	<b>Stephanie Garrett</b> , Oncor <p>Oncor has developed and is continuing to develop a new Work and Asset Management (WaAM) system to replace a legacy Work Management System. This new system includes a project tracking component and external facing portal for submission of request and status updates. The first two phases of WaAM have been implemented: 1) Online Service Request, 2) Project Status updates and 3) Project Tracking of milestones. Development and enhancement of the customer portal will continue as Oncor moves towards full integration/replacement of our legacy Work Management System.</p>	
9:45 am – 10:15 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:15 am – 11:00 am	<b>TD9: INNOVATION — Exelon 2018 Innovation Expo Winner Demonstration — SLIQ</b>	<i>Williams</i>
	<b>Steve Hess</b> , PECO, <i>Innovation Manager</i> <p>The Exelon Innovation Expo Winner SLIQ: Storm Live Interactive Qlik Platform leverages Qlik Technology. The SLIQ Platform benefits are widespread, impacting The Customer (power on quicker, better estimated restoration time), Real-time data analytics (centralizing internal and external data sources), Storm restoration performance (CAIDI, SAIFI etc.), Storm team communication (replace some communication with quick access to details via live dashboard) and Post storm analytics. Ideation, implementation, and enhancements will be discussed, along with a demonstration.</p>	
11:00 am – 12:00 pm	<b>TD10: INNOVATION — Understanding Idea and Innovation Processes — Panel Discussion</b>	<i>Williams</i>
	<b>Steve Hess</b> , Oncor <b>Martin Narendorf</b> , CenterPoint Energy <p>Steve Hess, PECO's Innovation Manager and Martin Narendorf from CenterPoint will provide a brief presentation of their companies' Innovation Processes and then engage the group in a Panel discussion.</p>	
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 2:00 pm	<b>TD11: OPERATIONS — Hurricane Michael Restoration Efforts</b>	<i>Williams</i>
	<b>Duke Energy, Florida</b> <p>Mexico Beach, the coastal town virtually destroyed by Hurricane Michael was Duke's territory. This session will focus on the restoration efforts related to Hurricane Michael. Hurricane Michael closely followed Hurricane Florence that caused catastrophic flooding in NC and SC. As a result, Duke was contending with 2 major storm responses back-to-back.</p>	

**TUESDAY** *(continued)*

2:00 pm – 2:45 pm	<b>TD12: TECH — Fault Location Information in the Control Room</b>	<i>Williams</i>
	<b>Julian Cox</b> , National Grid National Grid is introducing some newer technology into their transmission control room that will eliminate the time delay waiting for field staff to report fault findings and improve restoration efforts.	
2:45 pm – 3:15 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:15 pm – 4:00 pm	<b>TD13: OPERATIONS — Transmission Facility Ratings Sampling Plan</b>	<i>Williams</i>
	<b>Duncan Brooks</b> , American Transmission Company ATC has an initiative this year to develop a plan for compliance purposes. In this session ATC will discuss their current position and would like to get a sense of where others in the industry are with this subject.	
4:00 pm – 5:00 pm	<b>TD14: Daily Wrap-Up and General Discussion</b>	<i>Williams</i>
	<b>Eileen Brannon</b> , Oncor, <i>T&amp;D Committee Chair</i> Time will be taken to discuss the day's activities: Were expectations met? What additional information might be of help? What new topics have come up as a result of these discussions?	

**WEDNESDAY**

8:00 am – 8:45 am	<b>TD15: DATA — Working in the Cloud</b>	<i>Williams</i>
	<b>Tammy Retzlaff</b> , American Transmission Company, <i>Information Security Consultant</i> ATC will discuss their approach to Working in the Cloud. There are so many things to consider when a company moves in this direction. Questions every company needs to ask include: How do we deal with data security? What special tools are needed? Are there bandwidth concerns? And many more.	
8:45 am – 9:30 am	<b>TD16: OPERATIONS/TECH — Victaulic Vortex Fire Suppression</b>	<i>Williams</i>
	<b>Joe Martucci</b> , PSE&G PSE&G is currently pursuing a new fire suppression system and would like to share some new technology that they have found offered by Victaulic. This system is already in use by a number of T&D utilities and Generators around the country.	
9:30 am – 9:45 am	<b>TD17: Final Wrap-Up and General Discussion</b>	<i>Williams</i>
	<b>Eileen Brannon</b> , Oncor, <i>T&amp;D Committee Chair</i> Time will be taken to discuss the Weeks activities: Were expectations met? What additional information might be of help? What new topics have come up as a result of these discussions?	
9:45 am – 10:15 am	<b>BREAK &amp; CHECK-OUT</b>	<i>St. Pete Lobby</i>
10:15 am – 10:45 am	<b>TD17: Final Wrap-Up and General Discussion (Continued)</b>	<i>Williams</i>
	<b>Eileen Brannon</b> , Oncor, <i>T&amp;D Committee Chair</i>	
10:45 am – 12:00 pm	<b>TD18 Fall 2019 Agenda Build</b>	<i>Williams</i>
	<b>Eileen Brannon</b> , Oncor, <i>T&amp;D Committee Chair</i> Planning ahead for the Fall Workshop. Topic discussions and ideas will be gathered.	

EUCG 2019 | SPRING WORKSHOP



TRACK SCHEDULE

**SOLAR**

# MONDAY

8:00 am – 9:30 am	<b>EUCG General Session, Membership Meeting</b>	<i>Grand Bay North Ballroom</i>
9:30 am – 10:00 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:00 am – 11:00 am	<b>SC1: Introductions and Business Updates/Chairman's Address</b>	<i>Demens</i>
<b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> This session will give new members the opportunity to introduce themselves and their companies, and for all members to share any business updates and “headline news” happening at their companies.		
11:00 am – 12:00 pm	<b>SC2: Maintenance Tech Training &amp; Qualifications</b>	<i>Demens</i>
<b>Valerie Gramiak</b> , Arizona Public Service <b>Tyler Medel</b> , Pacific Gas and Electric Company <b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> The Committee will review the minimum training and qualifications for field personnel with the goal of establishing consistency.		
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 2:00 pm	<b>SC3: Work Management Process</b>	<i>Demens</i>
<b>Bob Denton</b> , Duke Energy <b>Valerie Gramiak</b> , Arizona Public Service Start to end process on work order creation, Work Management system (SAP, Maximo, etc.), roles and responsibilities, technology (mobility), and best practices.		
2:00 pm – 2:45 pm	<b>SC4: Work Vehicle Fleet Standards</b>	<i>Demens</i>
<b>Valerie Gramiak</b> , Arizona Public Service <b>Tyler Medel</b> , Pacific Gas and Electric Company <b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> Vehicle setup/outfit, tools, type (make, model, etc.), certifications and regulations, drive time, hazmat disposal and safety.		
2:45 pm – 3:15 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>
3:15 pm – 4:15 pm	<b>SC5: Transformer Maintenance</b>	<i>Demens</i>
<b>Bob Denton</b> , Duke Energy Testing best practices certifications and training. Share what issues are being seen and what mitigation plans you have, methods for removal and repair.		
4:15 pm – 5:00 pm	<b>SC6: PM Frequencies</b>	<i>Demens</i>
<b>Valerie Gramiak</b> , Arizona Public Service <b>Tyler Medel</b> , Pacific Gas and Electric Company <b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> Best practices around opportunities for cost savings by determining PM activities and frequencies.		
5:30 pm – 9:00 pm	<b>Monday Evening Networking Event</b>	<i>Park &amp; Rec</i>

## TUESDAY

8:00 am – 9:00 am	<b>SC7: End of Site/Equipment Warranty Evaluation</b>	<i>Demens</i>
	<b>Tyler Medel</b> , Pacific Gas and Electric Company Understand industry best practices for sites or equipment prior to end of warranty, how much time prior warranty expiration.	
9:00 am – 9:45 am	<b>SC8: Data Submission Standardization</b>	<i>Demens</i>
	<b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> Ensure categories are understood by all and standardized, and identify additional categories.	
9:45 am – 10:15 am	<b>BREAK</b>	<i>St. Pete Lobby</i>
10:15 am – 11:15 am	<b>SC9: Track Maintenance and Issues</b>	<i>Demens</i>
	<b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> Performance results for sites with tracker and tile sites and operational gains.	
11:15 am – 12:00 pm	<b>SC10: Results on Inverter Man. Power Electronics (Filtration System)</b>	<i>Demens</i>
	<b>Bob Denton</b> , Duke Energy Results from inverter analysis and best practices.	
12:00 pm – 1:00 pm	<b>LUNCH</b>	<i>Grand Bay South Ballroom</i>
1:00 pm – 2:00 pm	<b>SC11: Original Equipment Manufacture Inverter Strategies</b>	<i>Demens</i>
	<b>Rob Biederman</b> , Southern California Edison <b>Bob Denton</b> , Duke Energy <b>Valerie Gramiak</b> , Arizona Public Service <b>Tyler Medel</b> , Pacific Gas and Electric Company <b>Scott Trombley</b> , Duke Energy This session will provide lessons learned around any challenges, issues and/or hardships, and solutions as it relates to inverters, etc.	
2:00 pm – 2:45 pm	<b>SC12: Maintenance Case Study</b>	<i>Demens</i>
	<b>Valerie Gramiak</b> , Arizona Public Service <b>Tyler Medel</b> , Pacific Gas and Electric Company Study detailing root causes and corrective actions thereafter.	
2:45 pm – 3:15 pm	<b>BREAK</b>	<i>St. Pete Lobby</i>



## TUESDAY (continued)

3:15 pm – 4:00 pm	<b>SC13: Lone Worker Process</b>	<i>Demens</i>
	<b>Bob Denton</b> , Duke Energy <b>Tyler Medel</b> , Pacific Gas and Electric Company Work and process standards for lone workers safety and worker security.	
4:00 pm – 5:00 pm	<b>SC14: Safety Case Study</b>	<i>Demens</i>
	<b>Bob Denton</b> , Duke Energy Study detailing root cause of safety issues and corrective actions.	

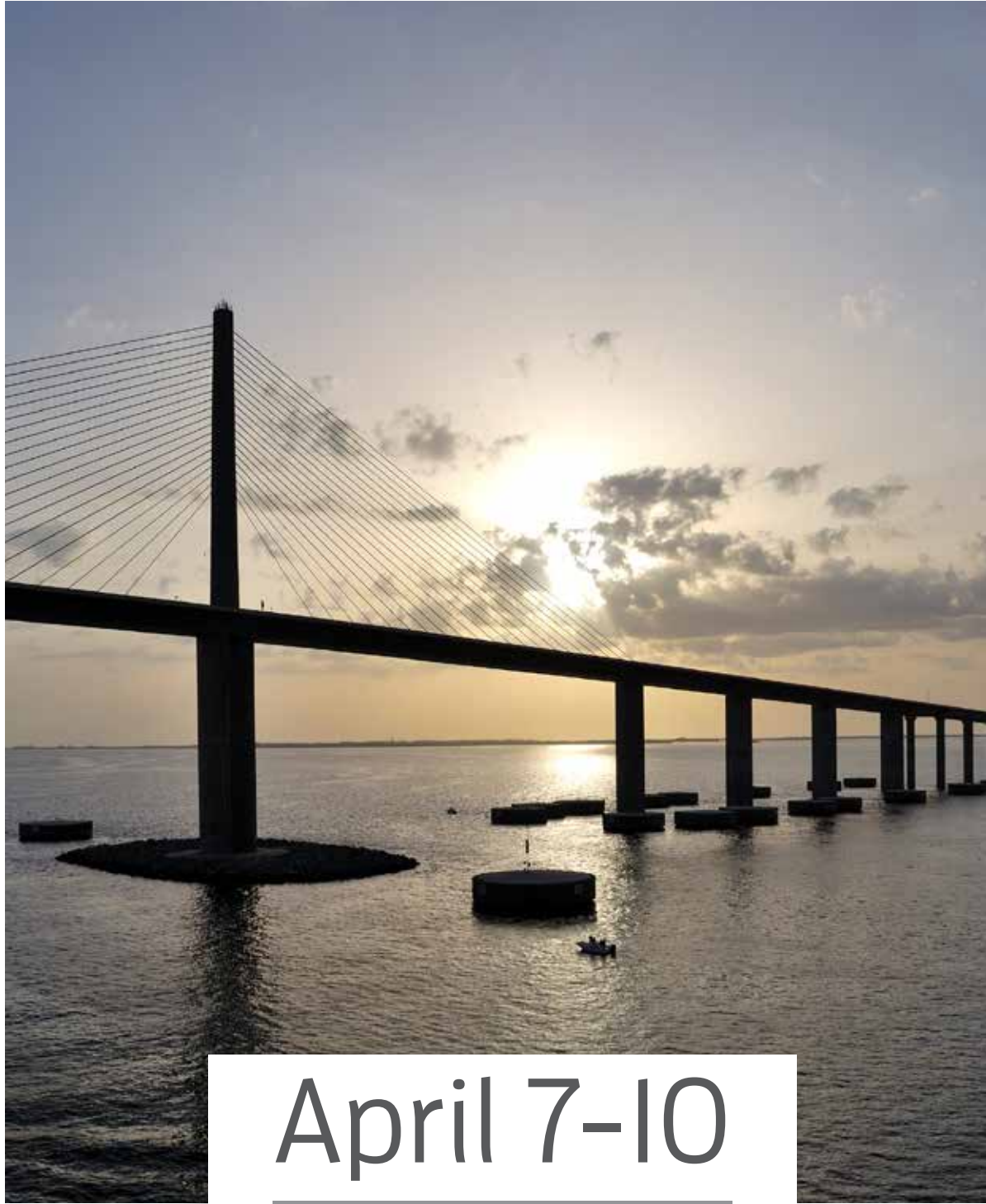
## WEDNESDAY

8:00 am – 9:00 am	<b>SC15: Fall Workshop Agenda Planning</b>	<i>Demens</i>
	This session will identify topics for the Fall Workshop and establish due dates and timelines.	
9:00 am – 9:45 am	<b>SC16: PVSC Roundtable &amp; Action Item Review</b>	<i>Demens</i>
	Time is provided for any feedback and completion of workshop surveys.	
9:45 am – 10:15 am	<b>BREAK/CHECK-OUT</b>	<i>St. Pete Lobby</i>
10:15 am – 11:00 pm	<b>SC17: Wrap-Up</b>	<i>Demens</i>
	<b>Ruben Soto</b> , Southern California Edison, <i>Solar Committee Chair</i> Summary of workshop and identify action items that need to be completed and reported at the Fall Workshop.	
12:00 pm	<b>ADJOURN</b>	





**EUCG 2019 | SPRING WORKSHOP**



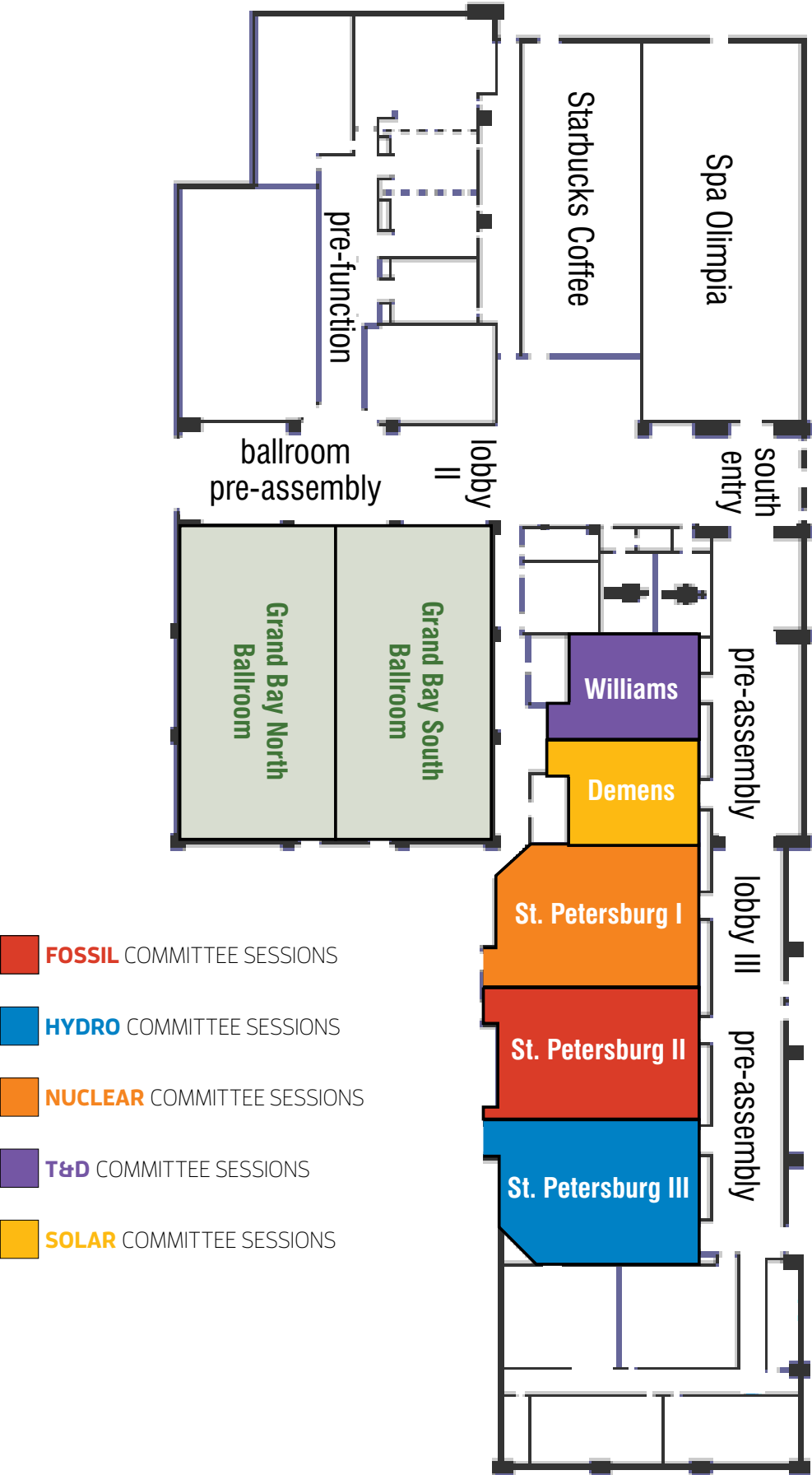
**April 7-10**

**St. Petersburg, Florida**  
**Hilton St. Petersburg Bayfront**



**EUCG™**  
Your Energy Information Source

# HOTEL | FLOOR PLAN



## WORKSHOP | NOTES





**EUCG™**  
Your Energy Information Source

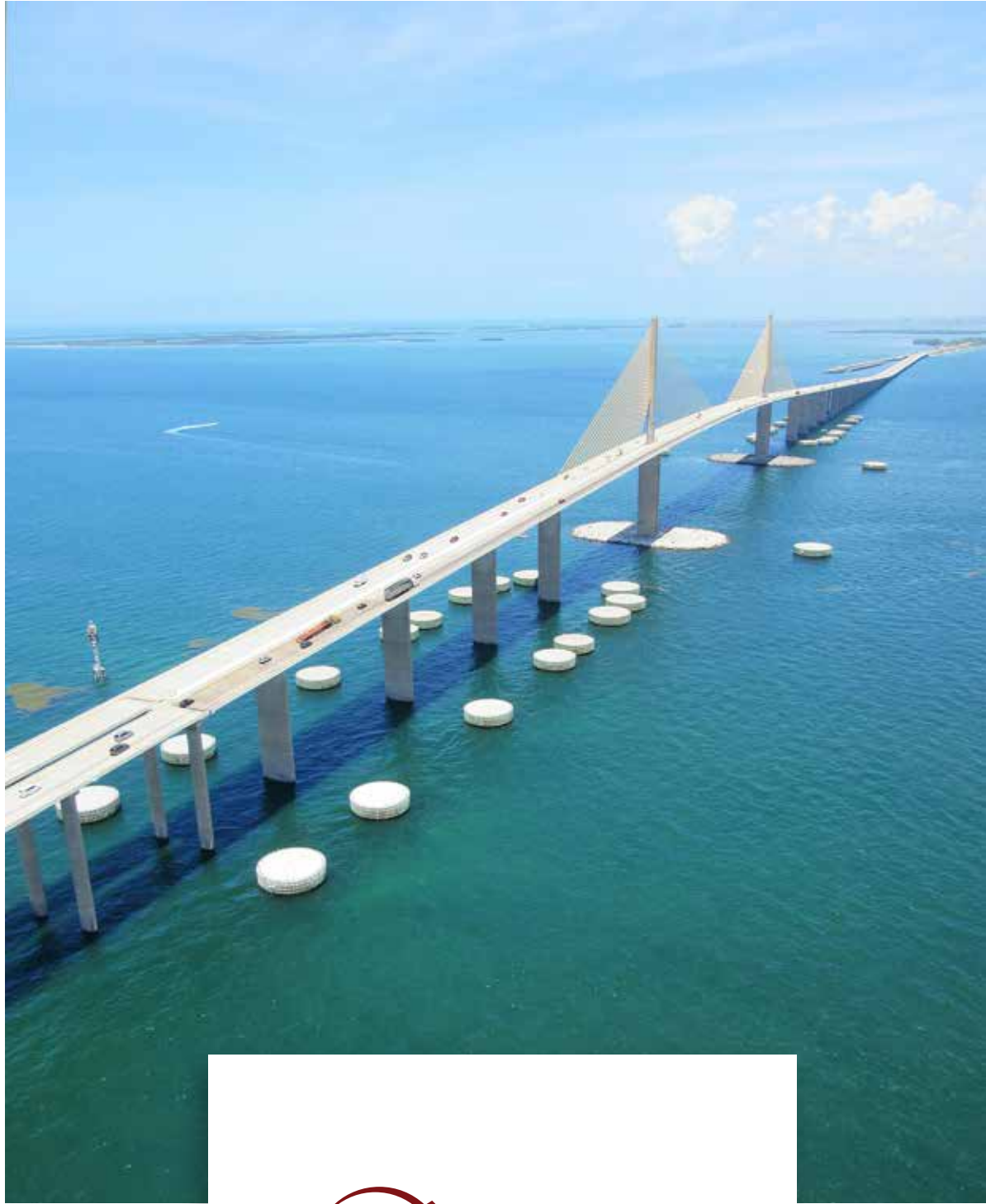
# EUCG 2019 • FALL WORKSHOP

September 15-18 • New Orleans, LA • Hilton New Orleans Riverside





# EUCG 2019 | SPRING WORKSHOP



**EUCG™**  
Your Energy Information Source

11130 Sunrise Valley Drive, Suite 350  
Reston, Virginia 20191  
P 703.234.4143 | F 703.435.4390 | [www.eucg.org](http://www.eucg.org)