<table>
<thead>
<tr>
<th>Event Highlights</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>341 Registrations</td>
<td>50%</td>
</tr>
<tr>
<td>13 Countries</td>
<td>96.3%</td>
</tr>
<tr>
<td>65 Industry Speakers</td>
<td>92.9%</td>
</tr>
<tr>
<td>15 Conference Sessions</td>
<td>96.2%</td>
</tr>
<tr>
<td>Tour of GE’s M&amp;D Center</td>
<td>100%</td>
</tr>
<tr>
<td>Digital Showcase – Building Blocks of a Connected Plant</td>
<td>100%</td>
</tr>
</tbody>
</table>

- 50% of post-event survey respondents are end users – electricity providers or CPI owner/operators.
- 96.3% of post-event survey respondents said the quality of the program met or exceeded their expectations.
- 92.9% of respondents said the speakers' knowledge of topics was very good or excellent.
- 96.2% of respondents said the event was a good investment of their time and money.
- 100% of respondents said the networking events met or exceeded their expectations.
Thank you to the 2020 Advisory Board for their knowledge, expertise and time dedicated to the power generation and chemical process industries.

David Badanes  
AES Data Privacy Officer  
The AES Corp.

Sydni Credle, Ph.D.  
Project Manager and General Engineer  
Enabling Technologies & Partnerships  
U.S. Dept. of Energy/National Energy Technology Lab

Pete Davies  
VP of Digital Engineering Solutions  
Uniper EnergyTech

James Del Rossi  
Mobile Hardware Architect  
Dow Water & Process Solutions

Lauhael Godinho  
Director, Digital IT: Logistics, Controls, PCN & Operational Systems  
Phillips 66

James Goosby  
I&C Support General Manager  
Southern Company

David Green  
Monitoring and Diagnostic Center Analyst Sr.  
American Electric Power

Mike Greene  
Operational Technology Lead  
Nova Scotia Power

Michael Hallgarth  
EHS Manager  
Flint Hills Resources

Bradley Houk  
Senior Engineering Advisor ExxonMobil  
Open Process Automation Project Manager  
ExxonMobil Corporation

Matthew Peters  
Manufacturing Engineer  
3M

Jason Pring  
Executive, Digital Industrial Solution Provider  
GE Power

Shahrul Rashid  
Custodian, Instrument and Control  
Petronas

Yves Gorat Stommel  
Head of Cognitive Solutions  
Evonik Corporation

Gloriana Teh  
Sr. Manager for Manufacturing  
Process Optimization  
Lonza AG

Jon Towslee  
Advanced Services Leader, Americas  
Industrial Automation, Energy Industries  
ABB

Anne-Marie Walters  
Industry Marketing Director, Process & Resources  
Bentley Systems Incorporated

Chris Welch  
Enterprise Improvement  
Tennessee Valley Authority (TVA)

Andrew Wise  
Senior Analyst  
Delek US Holdings, Inc.

“If they're looking to leverage digital transformation to affect their goals, initiatives, challenges, then they should absolutely be here and be aware of what’s going on.”  
- Frank Naugle, Honeywell
CONFERENCE SESSION HIGHLIGHTS

Attendees left with actionable information and strategies to maximize the use of data, analytics, and related technology to drive efficiency improvements, preventative and predictive maintenance programs, and staff safety. This year’s conference delivered a unique experience where attendees learned from the brightest minds, tackling this complicated and highly technical world.

GENERAL SESSIONS

Implementation Case Studies: How Digital Technologies Are Affecting Safety
Moderator: Craig Nicholson, Consultant, IEM Energy Consultants
Southeastern Utility Speeds Up Grid Modernization Efforts with Drone Data
Tyler Collins, VP of Energy, PrecisionHawk
What We Learned So Far From Implementing a Connected Worker Initiative on One of the Biggest Construction Projects in the World
C. Shannon Posey, VP, Technical Services, SmartConnect powered by Certified Safety

Maintenance Digitalization: A Connected Workforce
Optimizing Workforce Performance during Shutdown, Turnaround, and Outage Execution
Paul Muir, President and Chief Revenue Officer, Mobideo
Louis LaBella, Executive Vice President and President of Refining, Delek, Delek US

Digital Showcase — Building Blocks of a Connected Plant
Moderated by: Lucian Fogoros, Co-Founder & Managing Director, lIoT World
- Augmented / Virtual Reality Sponsored By: American Electric Power
- Condition-Based Maintenance Sponsored By: everactive
- Plant Data Historian and Advanced Pattern Recognition Software Sponsored By: Plant Performance, Inc.
- Optimization/Analytics Sponsored By: Seeq

Opening Remarks & Keynote Presentation
Welcome
Georgia PSC Tim G. Echols, Commissioner, Georgia Public Service Commission
Editors’ Welcome
Scott Jenkins, Senior Editor, Chemical Engineering magazine
Sonal Patel, Senior Associate Editor, POWER magazine
Welcome From Hosts
Dr. Mark Berry, Vice President of Environmental & Natural Resources and Research & Development for SCS, Southern Company
Benjamin Blanchette, Sr. Director - Digital Innovation & Transformation, Georgia-Pacific
Artificial Intelligence - From Hype to Potential
Chris Benson, Principal Artificial Intelligence Strategist, Lockheed Martin

Cyber and Physical Risk Mitigation Strategies for Operational Technology
Moderator: Kenneth Ferguson, Vice President, Nuclear Technology, Global Nuclear Associates
Panelists: James Goosby, I&C Support General Manager, Southern Company
David Foose, Security Program Manager, Emerson Power & Water Solutions
Shahrul A. Rashid, Custodian, Instrument and Control, Petronas

“The people that are attending are aspirational. They looking for that next thing. The reason they are here is to change.”
- Chris Benson, Principal Artificial Intelligence Strategist, Lockheed Martin

Operational Technology Network Strategies
Chair/Moderator: Lauhael S. Godinho, Director, Digital IT: Logistics, Controls, PCN & Operational Systems, Phillips 66
Panelists: Juan Panama, Global Business Development Manager, Emerson
Benjamin Blanchette, Sr. Director - Digital Innovation & Transformation, Georgia-Pacific
Bradley G. Houk, PE, Senior Engineering Advisor, ExxonMobil Open Process Automation Project Manager, ExxonMobil Corporation
GENERAL SESSIONS

Time is Money — Digitizing the Outage
Chair: Jason Pring, Executive, Digital Industrial Solution Provider, GE Power
Co-Chairs: Matthew Peters, Manufacturing Engineer, 3M
James Del Rossi, Mobile Hardware Architect, Dow Water & Process Solutions
The Advantages of Wireless Condition Monitoring Over Route-Based Monitoring for Developing a Successful Predictive Maintenance Strategy
Ares Panagoulias, Sales & Engineering Manager- Wireless Condition Monitoring, Test Lab Manager, Hydro Inc.
Using Technology to Enhance Plant Electrical Safety and Maintenance Operations: A Reliability Topic
Bhanu Silla, Director of Product Marketing, Grace Engineered Products Inc.
Digitalizing Substation Upgrades – Saving Time and Money
Anne-Marie Walters, Industry Marketing Director, process & Resources, Bentley Systems Inc.

Improving Operation Conditions Through Technology
Chair/Moderator: Jon Towslee, Advanced Services Leader, Americas Industrial Automation, Energy Industries (IAEN), ABB
Leveraging Digital Solutions to Increase Operator Effectiveness and Plant Performance
Tom Cross, Account Manager Power and Water Automation, ABB
Brian Rupper, Manager E&C - Plant Services, Wheelabrator Technologies
Digital Worker and Remote Power Plant Operations for Safer and Cost Effective Plant O&M
Martha Saker, Product Manager Edge and Remote Operations, GE Digital
Role of Process Controls and Automation in Plant Digitization
Steven Seachman, Principal Technical Leader, Electric Power Research Institute
3 Essential Elements to Realizing Value: The Business of Digitization with Competitive Power Ventures
Joe Michienzi, Vice President, Asset Management, Competitive Power Ventures, Inc. (CPV)

“We are all trying to solve some of the same problems. There’s no better way to learn than from your peers.”
- Ben Blanchette, Georgia-Pacific, LLC Honeywell
GENERAL SESSIONS

Leveraging Equipment Hierarchy Across Platforms
Moderator: Mike Greene, Operational Technology Lead, Nova Scotia Power

Large Scale Deployment TVA Case Study
David Tiffany, Engineer, Tennessee Valley Authority
Co-Authors: John Cox, Principal Analytics Engineer, Seeq Corporation
Ben Bassford, Senior Manager Performance Monitoring and Diagnostics, Tennessee Valley Authority

End-to-end Digital Engagement/ From Value Estimation to Adoption to Value Realization
Jacqueline Grunwald, CIO, AdvanSix Inc.
Co-Authors: Stephen Keefe, Strategic Account Manager, GE Digital
Jared Hartness, Sr. Product Marketing Manager, GE Digital
Chemical Plant Instrumentation IOT and Industry 4.0 — the last 12 months and the future
Michael Magerstädt, Manager, Global Industry Division Chemical, KROHNE AG

Breaking Out of the Research Lab — AI Technology Has Arrived in Daily Operations
Co-Chair: Dr. Yves Gorat Stommel, Head of Cognitive Solutions, Evonik Corporation

Leveraging Explainable Machine Learning to Drive Plant Optimization
Dr. Berk Birand, CEO, Fero Labs

Why Breakthroughs in Scaled Asset-Centric Modeling Are Critical for the Connected Plant
Javier Martinez Sanchez, O&M Supervision Director, Mitsui & Co. (U.S.A.)
Co-Author: Slavek Zaremba, Chief Technology Officer of Predictive Maintenance, SparkCognition

The Importance of Good Data Science in Effective Asset Performance Monitoring
Ben Berwick, Strategic Marketing Specialist, Honeywell Connected Plant

"The content has been great. It really shows where the energy sector is heading."
- Carlos Sua, Senior Developer, NextEra Energy, 2020 Game Changer Award Winner

Digital Horizon: Emerging Technologies That You Need to Track
Chair/Moderator: Sydni Credle, Ph.D., Project Manager and General Engineer Enabling Technologies & Partnerships, U.S. Dept. of Energy/National Energy Technology Lab
Co-Chair: Chris Welch, Enterprise Improvement, Tennessee Valley Authority (TVA)

The Growth of Blockchain
Hannah Davis, Blockchain Project Lead, Electric Power Research Institute
Increase Efficiency in Power Generation with Artificial Intelligence That Encodes Human Knowledge, Expertise, and Experience
Kim Gilbert Ph.D., Director of Technical Commercial Engineering, Beyond Limits

Next Generation Operations using Smart Data Analytics
Brian D. Wolf, Lead Performance & Optimization Consultant, Black & Veatch
POWER GENERATION TRACK

The 2020 Connected Plant Conference delivered what we expected and more. We traded ideas with a host of attendees, from experts in artificial intelligence, leaders of Digital Transformation at both Power and Chemical companies, to founders of promising startups. Everyone was laser-focused on solving big problems that will provide the highest return on investment through digitalization.

-Karonn Blue, Managing Principal, L.L. Blue Engineering

Digital Transformation Models
Facilitators: Mike Greene, Operational Technology Lead, Nova Scotia Power
Michael Reid PhD, General Manager of Technical Programs, Duke Energy

Digital Solutions in the Power Plant
Chair/Moderator: Michael Hallgarth, EHS Manager, Flint Hills Resources
Hybrid Analytics Solution to Improve Coal Power Plant Operations
Scott Affelt, President, XMPLR Energy LLC
IIoT Digital Twin: Self-Optimizing Combustion System
Sandy Bouissa, Advanced Services Specialist, ABB
Leveraging Digital Technologies to Achieve Global Fleetwide Performance Improvements
Ramiro Rivera, Asset Performance Sr. Manager, Global Operations Support, AES Puerto Rico
Overview of Digital Demonstration Facility (DDF) at Plant Barry
Chet Acharya, Research and Development (R&D): Birmingham, Southern Company Services

“A lot of the right people are here, whether it be suppliers or customers.”
- Frank Naugle, Honeywell
CHEMICAL ENGINEERING TRACK

Leveraging Data Analytics for Production Improvement
Facilitators: Dr. Yves Gorat Stommel, Head of Cognitive Solutions, Evonik Corporation
Matthew Peters, Manufacturing Engineer, 3M

Using Analytics to Advance Operation
Chair/Moderator: Gloriana Teh, Sr. Manager for Manufacturing Process Optimization, Lonza AG/Ltd
Digitalization in Production—How Data Analytics Increases Operational Performance
Sunny Dixit, Data Analytics Engineer, TrendMiner
Achieving Optimal Operating Conditions Through Digitization and Data Analysis
Liwei Huang, Sr. Optimization Engineer, ABB
Open Process Automation - Unlocking Value Generation to the Business
David DeBari, Process Control Engineer, ExxonMobil Corporation
The Convergence of Predictive and Preventative Maintenance
Daniel Parker, Sr. Manager, Product Marketing, GE Power

“The opportunities to learn about the newer technologies and applications as well as make connections are VERY beneficial.”
- Matt Buck, Senior Technical Leader, EPRI

“There’s some really good technical conversations and there’s some really good philosophical conversations - how people drove change, how they manage change, how they got other people to start changing direction of path and purpose.”
- Ben Blanchette, Georgia-Pacific, LLC

“It is always valuable to see where industry peers are, and to gain insight on real-world applications of digital tools that are providing value to the end-user. I thought the focus on user stories was great. The networking is another value, because I am able to talk through specifics on how others are strategizing their digital transformation.”
- Matt Peters, 3M Georgia-Pacific, LLC
The honored recipients of this award are individuals and teams, who through modern techniques associated with digitalization, have contributed to innovation, solved a problem, or made improvements. A Game Changer is a champion in the power generation and chemical process industries. Congratulations to the following well-deserved winners!

MANUEL LOMBARDERO, AES
ALBERT ROOYAKKERS, BEDROCK AUTOMATION
KIM GILBERT, BEYOND LIMITS
SEIGA TEAM (SEAMLESS EPCOM INTEGRATED GLOBAL ACCESS), EASTMAN CHEMICAL COMPANY
JUAN PANAMA, EMERSON
JOHN CHOWDHURY, FRISCO GREEN ENERGY
MICHAEL PARRELLA AND MARTIN SHIMKO, GThERM INC.
JARED WITTE, KURARAY AMERICA
TODD SYNOGROUND, ASHLEY WARD, AMY BASCHE AND JEFF FLORA, MISSION SUPPORT ALLIANCE
SAMER ARAFA, JUSTIN WOODARD AND TYLER KRUPA, NATIONAL GRID
CARLOS SUA AND ANNAMALAI LAKSHMANAN, NEXTERA ENERGY RESOURCES, LLC
JAY PANICKER AND PRABHAKAR NELLORE, OPENEGRID
SMART WIRES TEAM
ANDY TANG, WÄRTSILÄ
BENJAMIN BLANCHETTE, GEORGIA-PACIFIC


![Image of award recipients]
ATTENDEES FROM THE FOLLOWING COMPANIES WERE REPRESENTED.