## POST SHOW REPORT

### 2020 Event Highlights

<table>
<thead>
<tr>
<th>Event Highlight</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>341 Registrations</td>
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<tr>
<td>13 Countries</td>
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<tr>
<td>65 Industry Speakers</td>
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<td>15 Conference Sessions</td>
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<tr>
<td>TOUR OF GE’S M&amp;D CENTER</td>
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<tr>
<td>DIGITAL SHOWCASE — BUILDING BLOCKS OF A CONNECTED PLANT</td>
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<td>50% of Connected Plant Conference attendees are end users - electricity providers or CPI owner/operators.</td>
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<td>96.3% of post-event survey respondents said the quality of the program met or exceeded their expectations.</td>
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<td>92.9% of respondents said the speakers’ knowledge of topics was very good or excellent.</td>
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<td>96.2% of respondents said the event was a good investment of their time and money.</td>
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<tr>
<td>100% of respondents said the networking events met or exceeded their expectations.</td>
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</table>

Presented by: [POWER](#) [CHEMICAL ENGINEERING](#)
Host Utility Partner: [Southern Company](#)
Host CPI Partner: [Georgia-Pacific](#)

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2020 Advisory Committee
Thank you to the 2020 Advisory Board for their knowledge, expertise and time dedicated to the power generation and chemical process industries.

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The AES Corp.

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Project Manager and General Engineer
Enabling Technologies & Partnerships
U.S. Dept. of Energy/National Energy Technology Lab

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Uniper Energy

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Mobile Hardware Architect
Dow Water & Process Solutions

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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

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PROMOTIONAL ITEM

NALCO Water

DIGITAL SHOWCASE

everactive

MEDIA SPONSORS

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Chemical Engineering

IIoT World
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.

**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, lloT World

- **Augmented / Virtual Reality** Sponsored By: [American Electric Power](https://www.aep.com)
- **Condition-Based Maintenance** Sponsored By: [everactive](https://www.everactive.com)
- **Plant Data Historian and Advanced Pattern Recognition Software** Sponsored By: [Seeq](https://www.seeq.com)
- **Optimization/Analytics** Sponsored By: [PCN & Operational Systems](https://www.pcnsystems.com)

**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

**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

“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
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 Srilla, 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
Bryan Rupper, Manager EI&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
Co-Authors: Wrangler Ferreira, Sergipe Site Manager - Senior Customer Service Management Staff Manager, GE Power Digital
Chetan Chauhan, General Manager Global Operations & Maintenance, GE Gas Power Systems
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]
Co-Authors: Rachel Farr, Principal Digital Product Manager, GE Power Digital
Dave Magill, Senior 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 Leader, 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
Digital Transformation Models
Facilitators: Mike Greene, Operational Technology Lead, Nova Scotia Power
Michael Reid PhD, General Manager of Technical Programs, Duke Energy

“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 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

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

ATTENDEE DEMOGRAPHICS

ATTENDANCE BY TRACK

- Power Generation: 61%
- Chemical Process Industries (CPI): 39%

TYPE OF POWER USED (PRODUCERS) OR INTERESTED IN (NON-PRODUCERS)

- Natural Gas: 61%
- Renewables: 36%
- Coal: 9%
- Nuclear: 9%
- Oil: 9%
- Hydro: 9%
- Other: 9%

COUNTRIES REPRESENTED
341 ATTENDEES FROM 13 COUNTRIES

STATES REPRESENTED
92% OF ATTENDEES FROM THE U.S. REPRESENTING 33 STATES

ATTENDEE CATEGORIES

- Standard: 52.2%
- Other: 18.1%
- CPI: 14.1%
- Other: 9.4%
- Investor-Owned Utility: 6.2%
- Federal/State Electric System: 6.2%
- Consulting Engineering Firms, Including Construction: 4.5%
- Muni Power Agency: 4.5%
- Other: 5.5%

COMPANY TYPES

- Process Manufacturing (Chemicals, Petroleum, Mining, ...): 30%
- Technology Product or Service Provider: 18%
- Other: 9%
- Chemicals: 9%
- Consulting Engineering Firms, Including Construction: 6%
- Investor-Owned Utility: 5%
- Municipal Power Agency: 5%
- Other: 9%
- Federal/State Electric System: 9%
- Other: 9%
- Ipp/Cogen: 9%
- Petroleum: 9%
- Other: 9%

COUNTRIES REPRESENTED
341 ATTENDEES FROM 13 COUNTRIES

STATES REPRESENTED
92% OF ATTENDEES FROM THE U.S. REPRESENTING 33 STATES
ATTENDEES FROM THE FOLLOWING COMPANIES WERE REPRESENTED.