

INFORMATION, COMMUNICATION AND CYBER SECURITY

July 2019

Dear ICCS Friends and Colleagues,

There is a tremendous amount of engagement with the members of the ICT and Cyber Security programs with a combination of webcasts, one-on-one calls, face-to-face meetings and workshops and I want to thank all of you who are participating on those activities—engagement is the key to maximize the value of your EPRI investment. While we are on the subject of maximizing value, a key metric for EPRI's success is when you apply EPRI R&D within your organization. Remember to nominate you and your team for an EPRI Technology Transfer Award. The deadline is rapidly approaching—all nominations are due July 31. The process is pretty easy—just explain how you have applied EPRI R&D using the [online form](#). And if you need some tips, just review our [nominations best practices](#) suggestions.

One more thing before we go over the quick updates—check out this interview by Galen Rasche—our Cyber Security program manager: "[The cyber threat: What utilities need to know](#)." This is a quick read and highlights not only the threats we are facing but the breadth of cyber security research EPRI is doing to address these challenges. Nice job Galen!

Now, on to some quick updates ...

Sincerely,
Matt Wakefield
Director, ICCS

2020 EPRI Research Portfolio — Available Now

EPRI's research and development portfolio has a clear vision for electricity R&D today and into the future.

For 2020, we see clearly the pivotal changes and progress across the electricity sector. EPRI's research offerings are shaped by our comprehensive view, based on almost a half-century of research and development. Our R&D portfolio addresses the technology, systems, operations, and workforce as they are today and drives the innovations to shape them for the decades ahead.

[Information and Communication Technology Portfolio](#)

[Cyber Security Portfolio](#)

2019 EPRI Technology Transfer Awards

Nominations for the annual EPRI Technology Transfer Awards are now being accepted and will run through July 31, 2019

[Nomination Form](#)

[Tips for TT Nominations](#)



Information and Communication Technology (ICT) (P161)

Information and Communication Technology Newsletter, topics covered include: Remote Device Management Assessment; Role of ICT in Integrated DER Value—Tech Transfer webcast summary; OpenDERMS Testing Platform: 2019 Update; Distributed Intelligence—Tech Transfer webcast summary; Webcast Dates: January–December 2019; Deliverables update: January–May 2019

Deliverables

- [3002016062—Application of Strategic Enterprise Architecture Metrics](#)
- [3002013401—Next Generation AMI Use Cases](#)
- [3002016940—ANSI/CTA-2045-A Water Heater Test Procedures: Information Exchange and Demand Response](#)
- [3002015873—Substation Data Extraction and Management: Case Study](#)
- [3002015911—Utility Enterprise Architecture Guidebook 4th Edition](#)
- [3002015952—Smart Grid Communications Intelligencer Spring 2019](#)
- [3002015875—Remote Device Management: Utility Requirements](#)
- [3002015918—Common Information Model Primer: Fifth Edition](#)

ICT Webcasts: follow this [link](#) to the 161 Cockpit

July 30

PS161D Technology Transfer Webcast: Grid Interoperability and Market Facilitation: Understanding Transformation of Interoperability Standards and the Methods for Facilitation

July 31

ESCC Resilient Communications Stakeholder Engagement Workshop

August 13

Interoperability Webcast: OpenADR

September 19

Interoperability Webcast: DER Standards Update

October 17

Interoperability Webcast: Telecom Standards Update

October 31

Technology Transfer Webcast: Private LTE

November 5

Interoperability Webcast: CIM Updates

August 15

Technology Transfer Webcast: Data Analytics for AMI Data

December 17

Interoperability Webcast: IEC 61850 Interoperability Test



Cyber Security (P183)

Cyber Security Newsletter May 2019 Topics covered include: 2019 Birds of a Feather Workshop for Threat Management Highlights; P200 Distribution Operations Interest Group; Cybersecurity Scenarios & Workshop Highlights; The Integrated Grid Demonstrations Initiative; 2018 Annual Report Advisory Committee and Task Force Webcasts; May Guest Article: Navigating the Tower of Babble Working Group and Standards Updates: IEEE, IEC and CIGRE.



Program Video [How secure is Cyber Security Data Protection with Transport Layer Security \(TLS\) Encryption?](#)

Deliverables

- [3002010607—DNP3 Secure Authentication](#)

Supplemental Project Announcements

- [3002016796—EPRI Cyber Security Metrics Operationalization and Benchmarking Pilot](#)

Cyber Security webcasts: follow this [link](#) to the 183 Cockpit

August 20

EPRI DER and Grid-Edge Systems Task Force Webcast

August 21

EPRI Incident Management/Threat Management Task Force Webcast — Pre-Advisory Update

Upcoming Events

September 9-12

[EPRI PDU Advisory and Sector Council Meetings](#)
Nashville, TN

September 23-24

[Advanced Metering Infrastructure \(AMI\) Task Force Meeting](#)
EPRI Charlotte

October 29-30

[Telecommunications Project Set 161G Fall Advisory Meeting at WE Energies](#)
Milwaukee, WI

February 10-13, 2020

[EPRI PDU Advisory and Sector Council Meetings](#)
Dallas, TX

Check It Out

The Kokomo (Ind.) Tribune posted an article about the installation of smart meters by Duke Energy. The story noted that EPRI, the World Health Organization, Federal Communications Commission and U.S. Food and Drug Administration have found no adverse health effects have been shown to occur from the radio frequency signals produced by smart meters or other such wireless networks. To [read the complete article](#) go to The Kokomo (Ind.) Tribune.

The **EPRI Journal** article on IEEE 1547-2018, a national standard establishing uniform DER requirements for performance, operation, testing, safety, and maintenance, gives an overview of this new standard and what it means for the power system. One exciting addition to IEEE 1547 that relates to our area are requirements for communications and interoperability.

Tobias Whitney was quoted in an **Energy & Environment News** article about [the promise and perils of utilities path to cloud computing](#). "While [the cloud] creates tremendous value as it relates to resiliency, operational and technological efficiency, it remains to be seen what unique vulnerability now exists in a heavily virtualized world," he said.

Winners of EPRI Challenge as part of Cyber Security Strategic Initiative at CREDC Summer Symposium [announced](#).