



AROUND THE REGION IN HOMELAND SECURITY

The Northwest Regional Technology Center (NWRTC) is a virtual resource center, operated by Pacific Northwest National Laboratory (PNNL), to support regional preparedness, resilience, response, and recovery. The center enables homeland security solutions for emergency responder communities and federal, state, and local stakeholders in the Northwest.

UPCOMING EVENTS

- September 1-30, 2018 – [National Preparedness Month](#)
- October 23, 2018 – [SciTech Northwest](#), Seattle, WA
- November 13-15, 2018 – [PNWER Annual Economic Leadership Forum](#), Whitehorse, Yukon
- November 14-15, 2018 – [International Public Safety Association Symposium](#), Washington, DC
- April 16-18, 2019 – [Partners in Emergency Preparedness Conference](#), Lynwood WA

CONTACT

- Want to know more? Visit us on the web at <http://nwrtec.pnnl.gov>
- Contact the NWRTC with questions and comments at nwrtec@pnnl.gov.

TECH EXPO SHARES INNOVATIONS IN FIRST RESPONSE, LIFE SCIENCES, DATA, CYBER

More than 40 technologies in life sciences, cyber and data, and next-generation energy will be presented at SciTech Northwest '18 on Oct. 23 at the Sheraton Hotel in Seattle, WA. The event is free to the public.



Photo credit: Alabastro Photography

Now in its third year, SciTech Northwest is the region's only technology expo that offers a unique opportunity to learn about discoveries from Washington's premier research institutions. This year's agenda includes [PNNL](#), [University of Washington](#), [Washington State University](#), and [Fred Hutchinson Cancer Research Center](#). Participants will experience hands-on demonstrations; hear inspiring talks from science and technology leaders; and network with entrepreneurs, tech business owners, investors, researchers, and more.

The featured technologies are in various development stages, from needing research collaborators to ready for licensing. Discoveries in life sciences range from better diagnostic tools and treatments for chronic diseases to bio-based products. Cyber and data innovations range from software that will protect an organization's critical infrastructures to information visualization tools that help decipher trends in big data. Next-generation energy technologies range from bio-based fuels to energy storage solutions. One of the innovations PNNL will demonstrate is the patent-pending VitalTag, a wearable and disposable suite of sensors that can be applied by first responders to monitor patient vital signs in a mass casualty incident. To learn more about the tag, visit the [PNNL Available Technologies website](#).

To register for SciTech Northwest and view the full list of technologies, visit the [event website](#).

SEPTEMBER IS NATIONAL PREPAREDNESS MONTH

Disasters happen. While we cannot always prevent them, we can prepare for them. September is recognized as National Preparedness Month, a time to focus on developing lifesaving skills and emergency preparedness. Sept. 15 is also recognized as the National Day of Action. All month long you can tune into the FEMA website for tips about how to prepare you and your family for a range of potential hazards and disasters. Visit <https://www.ready.gov/september> or download the [FEMA app](#) for more information.



SUMMIT WELCOMES REGIONAL LEADERS, PARTNERS

More than 600 regional business leaders, legislators, and key decision makers attended the Pacific NorthWest Economic Region (PNWER) Annual Summit on July 22-26



in Spokane, WA. PNWER is a nonprofit organization advocating regional and bi-national cooperation and providing a platform for collaboration among public, private, academic, and nonprofit stakeholders.

During the summit, experts from the United States and Canada explored shared challenges. Malin Young, PNNL's deputy director for science and technology, moderated a panel on "Strengthening Innovation Ecosystems," and Ron Melton, PNNL's team lead in electricity infrastructure integration, hosted a session on "Energy Innovation and Research," discussing electric power system technologies, software, and battery storage. Sessions also addressed issues such as water management, emergency preparedness, data privacy, and border security.

"PNWER is a unique opportunity to share PNNL expertise to help regional leaders address environmental, energy, and security challenges in our own backyard," said Melanie Roberts, PNNL's director of state and regional affairs. She invites PNNL researchers doing work relevant to regional stakeholders to contact her with suggestions for the 2019 annual summit in Saskatoon, Saskatchewan.

To read highlights from the event, visit the [PNWER Summit website](#).

SMART IDEAS WANTED: GRID MODERNIZATION

A consortium of national laboratories and nonprofit organizations announced a call for concepts to engage the smart grid



community in demonstrating visionary interoperability capabilities on how facilities with distributed energy resources, or DERs, integrate and interact with the utility grid.

The Plug & Play DER Challenge is administered by Lawrence Berkeley National Laboratory for the U.S. Department of Energy's Grid Modernization Laboratory Consortium and is being rolled out in collaboration with PNNL, the Smart Electric Power Alliance, the Electric Power Research Institute, and the National Institute of Standards and Technology, alongside other project industry advisors. The project aims to improve interoperability as a means toward easing technology integration across various devices and systems, including related end-use systems such as buildings, electric vehicles, and DERs. DERs are smaller decentralized electrical generation, storage, and flexible load devices and methods that connect to the electric distribution grid.

Proposals are due Sept. 7 and qualified submitters will be invited to present their concepts at the North American Smart Energy Week Sept. 24-27. To learn more, visit <http://plugandplayder.org/>.

For more information, contact NWRTC Director Ann Lesperance at ann.lesperance@pnnl.gov or (206) 528-3223, or Deputy Directors Ryan Eddy at ryan.eddy@pnnl.gov or (509) 372-6622, and Rob Jasper at robert.jasper@pnnl.gov or (509) 371-6430, or visit us online at <http://nwrtec.pnnl.gov>.

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