

# Gateway for Accelerated Innovation in Nuclear March 2018 Highlights Report

## Nuclear Innovation Week

Third Way, Nuclear Energy Institute (NEI), and GAIN partnered together to create the inaugural **Nuclear Innovation Week** on March 5-9, 2018. **Third Way's Nuclear Summit** was focused on broadening the community of support for innovative nuclear technologies. Held at Longview Gallery in the Shaw neighborhood of Washington, DC, the Nuclear Summit served as the kick off to the first ever "Advanced Nuclear Week." Speakers included INL Director, Mark Peters; Chairman of the Nuclear Regulatory Commission, Kristine Svinicki; and US Ambassador to IAEA, Laura Holgate.



The **NEI Nuclear R&D Summit** highlighted the progress in nuclear energy research and development efforts, discussed the challenges associated with commercializing technologies, and explored the importance of accelerated efforts to develop private-public partnership opportunities. In the afternoon, willing participants "stormed Capitol Hill" to discuss the need for advanced nuclear technologies.

On March 8-9, 2018, the Department of Energy's Gateway for Accelerated Innovation in Nuclear (GAIN) Initiative, the Nuclear Energy Institute (NEI), the Electric Power Research Institute (EPRI), and George Washington University (GWU) hosted the **Enabling Advanced Reactors for the Market Symposium** to bring together technology developers, energy users, government representatives, and others in a dialogue about the future energy market and the role of advanced nuclear technologies. Participants identified opportunities and challenges associated with deployment of advanced reactor technologies for future energy markets.

The symposium agenda included perspectives from advanced nuclear technology developers, utility and energy end users, industry, DOE, regulators, and policy makers. Developers included General Atomics, Kairos Power, GE-Hitachi, TerraPower, Terrestrial Energy, and X-Energy. Utility and end users were represented by EPRI, Exelon, Ontario Power Generation, Salt River Project, Southern Company, Tennessee Valley Authority, and Dow Chemical Co. Government and policy presentations were made by representatives from DOE-NE, NEI, NRC, U.S. House and Senate Committees, National Conference of State Legislatures, NEI, and NIA.

## Millennial Nuclear Caucus at ANL

ANL hosted a **Millennial Nuclear Caucus** on March 26, 2018. The event was co-organized with DOE-NE as part of a series of such gatherings nation-wide. It was attended by over 150 millennials, who are in a unique position to shape the future of nuclear energy. They represented a range of professions in the nuclear field, from those currently working at our nation's 99 plants and supplier facilities, to those designing the small-modular and advanced reactors of the future.

The agenda for the caucus included a communications workshop titled "elevating your nuclear energy pitch;" a tour of the ANL Nuclear Energy Exhibition Hall; and discussions with nuclear visionaries,

policymakers and thought leaders. Mrs. Suzanne Jaworowski, Chief of Staff and Senior Advisor at DOE, headlined the evening reception and participated in a panel discussion on “The Spirit of Innovation from Chicago Pile-1 to the Future.”

### *Legacy Information*

On March 27, 2018, the **TREAT Experimental Relational (TREXR) Database** (TREXR) Database was opened to the public! It contains a searchable collection of information describing the hundreds of experiments conducted on nuclear reactor fuels in the Transient Reactor Test (TREAT) facility beginning in 1960. Experiments investigated the response of nuclear fuel samples to accident-type conditions; the results support the design of safer nuclear reactors. For more information about the TREXR database, please visit the site’s “about” page at <https://www.trexr.anl.gov/about/>. US citizens may apply for a collaborator account to access the database contents using the blue button on the “login” page at <https://www.trexr.anl.gov/auth/>.

### *Outreach*

March 5-9, 2018 – Rita Baranwal and Lori Braase attended the inaugural **Nuclear Innovation Week** in Washington DC. This included the Third Way Nuclear Summit and the NEI R&D Summit along with the GAIN Symposium. GAIN was part of the organizing team for this week-long event.

March 11-15, 2018 – John Jackson and Alison Conner attended and supported the GAIN booth at the **TMS 2018 Annual Meeting and Exhibition**, at the Convention Center in Phoenix, AZ.

March 13, 2018: Rita Baranwal moderated a panel on **Quantifying Technical Risks for Advanced Reactors** at the ARPA-E Innovation Summit in Washington DC. Members of the audience weren’t too familiar with the benefits and challenges of advanced reactors, so we educated a new audience.

March 13-15, 2018 – Rita Baranwal presented on GAIN at the **Regulatory Information Conference (RIC)** in Bethesda, MD.

March 25-28, 2018 – Rita Baranwal attended the **MIT Symposium on Realizing the Value of Nuclear Energy** in Boston, MA.

March 27-28, 2018 – John Jackson and Lori Braase attended the **International SMR and Advanced Reactor Summit** at the Westin Buckhead in Atlanta, GA. In addition, GAIN had a booth and received many inquiries from suppliers and future voucher applicants. During the Summit, they met with one large vendor interested in partnering with a lab on some materials R&D and a second supplier organized a meeting with GAIN in Idaho Falls at their satellite office.

## GAIN Look Ahead

<i>FY 2018 Date(s)</i>	<i>Title</i>	<i>Location</i>	<i>GAIN's Role</i>
<b>April 18:</b>	GAIN Executive Advisory Committee (EAC) Meeting	INL Meeting Center, Idaho Falls, ID	Organize, Manage, Tours
<b>April 24:</b>	NRC Public Briefing on Advanced Reactors	Rockville, MD	Present, Attend
<b>May 2:</b>	NRC Advanced Reactors Standards Workshop	North Bethesda Marriott, Bethesda, MD	Organize, Attend
<b>May 10:</b>	GAIN HTR Symposium	INL, Idaho Falls, ID	Organize, Attend
<b>May 15-16:</b>	NIC – Western Nuclear Supply Chain Mtg	INL, Idaho Falls, ID	Present, Attend
<b>May 15-16:</b>	Nuclear Energy in the 21 <sup>st</sup> Century: The Phase Beyond Too Cheap to Meter	Taliesin, Spring Green, WI	Attend
<b>May 15-16:</b>	Energy Disruptors Conference	Calgary, Canada	Present, Attend
<b>May 21:</b>	NAYGN National Conference	Atlanta, GA	Present, Attend
<b>June 3-6:</b>	2018 Western Conference of Public Service Commissioners	Boise, ID	Present, Attend
<b>June 5-6:</b>	Digital Environment for Advanced Reactors Workshop	ANL, Chicago, IL	Present, Attend
<b>June 12:</b>	NEI ARWG	NEI Office, Washington DC	Present, Attend
<b>June 14:</b>	Generation Atomic Workshop	INL, Idaho Falls, ID	Organize, Attend
<b>June 15:</b>	Millennial Nuclear Caucus	INL, Idaho Falls, ID	Organize, Attend
<b>June 17-21:</b>	ANS Annual Meeting	Marriott Philadelphia Downtown, PA	Present, Attend
<b>July 17:</b>	MEV School, “Advanced Reactor Systems and Novel Advances in Multi-Physic Modeling and Simulation”	ANL, Chicago, IL	Present, Attend

For questions or additional information, please contact Lori Braase, GAIN, [lori.braase@inl.gov](mailto:lori.braase@inl.gov).

