

## **GAIN receives Trailblazer award from U.S. Nuclear Industry Council**

*January 31, 2019*



The Gateway for Accelerated Innovation in Nuclear (GAIN) initiative has been named by the U.S. Nuclear Industry Council as a winner of its 2018 Trailblazer Meritorious Achievement Award. The award was presented at USNIC's Advanced Reactor Summit VI Jan. 29-31, 2019, in San Diego, California.

GAIN's award is for its work in providing the nuclear energy community a single point of access to the technical, regulatory, and financial support necessary to move new or advanced nuclear technologies toward commercialization.

The Advanced Reactors Summit Trailblazer Awards were established in 2017. Jose Reyes, NuScale co-founder and chief technology officer, was the inaugural honoree that year, followed by Tim Echols of the Georgia Public Utility Commission at Summit V in February 2018. Terrestrial Energy received the first Trailblazer Special Achievement Award at Summit V.

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## **GAIN Announces 1st Quarter FY2019 Nuclear Energy Voucher Recipients**

*January 24, 2019*

The Gateway for Accelerated Innovation in Nuclear (GAIN) announced today that three nuclear companies will be provided GAIN Nuclear Energy (NE) Vouchers to accelerate the innovation and application of advanced nuclear technologies. NE vouchers provide advanced nuclear technology innovators with access to the extensive nuclear research capabilities and expertise available across the U.S. Department of Energy (DOE) national laboratories complex. Following the successes of the program in FY2016, FY2017 and FY2018 (quarterly award cycles were introduced), the FY2019 inaugural round kicks off what is expected to be another productive year.

The GAIN NE Voucher Program accepts applications on innovation that support production and utilization of nuclear energy (e.g., for generation of electricity, supply of process heat, etc.) in the following general topic areas:

- Analysis and evaluation of, and for, advanced reactor concepts and associated designs, including development of licensing information or strategies
- Structural material and component development, testing and qualification
- Advanced nuclear fuel development, fabrication and testing (includes fuel materials and cladding)
- Development, testing, and qualification of instrumentation, controls, and sensor technologies that are hardened for harsh environments and secured against cyber intrusion
- Modeling and simulation, high-performance computing, codes and methods
- Technical assistance from subject matter experts and/or data/information to support technology development and/or confirm key technical or licensing issues.

The businesses selected to receive GAIN nuclear energy vouchers for Q1 FY2019 are:

| GAIN 2019<br>1st Quarter<br>NE Voucher<br>Recipient | Awarded Proposal   | Partner<br>Facility  |
|---|--|--|
| Framatome, USA<br>Lynchburg, VA                     | <a href="#">Advanced Fuel Stability Analysis Using High-Fidelity Large-Scale Computational Fluid Dynamic Simulations</a>   | Argonne National Laboratory                                  |
| GE-Hitachi<br>Wilmington, NC                        | <a href="#">Enabling System Technologies to Improve the Economics and Performance of Existing LWRs and Advanced BWR Plants: Improving Off-gas System Performance</a> | Idaho National Laboratory<br>Argonne National Laboratory     |
| Kairos Power<br>Alameda, CA                         | <a href="#">Chemical Method Development for Quantifying Oxygen in Beryllium Salt</a>   | Argonne National Laboratory<br>Oak Ridge National Laboratory |

GAIN NE voucher recipients do not receive direct financial awards. The GAIN nuclear energy vouchers provide access to national laboratory capabilities at no cost to the voucher recipients. All awardees are responsible for a minimum 20 percent cost share, which could be an in-kind contribution. Further information on the GAIN nuclear energy voucher program as well as current and all past awards may be found [here](#).

The U.S. Department of Energy Office of Nuclear Energy (DOE-NE) established GAIN to provide the nuclear community with the technical, regulatory and financial support necessary to move innovative nuclear energy technologies toward commercialization while ensuring the continued safe, reliable and economic operation of the existing nuclear fleet. Through GAIN, DOE is making its state-of-the-art and continuously improving RD&D infrastructure available to stakeholders to achieve faster and cost-effective development of innovative nuclear energy technologies toward commercial readiness.

Visit GAIN at <https://gain.inl.gov>. Follow @GAINNuclear on [Twitter](#) or visit our Facebook page at [www.facebook.com/GAINnuclear](http://www.facebook.com/GAINnuclear).

 [Printable](#) Version with links to the recipient abstracts

## Transatomic Power Corporation Passes the Torch

*December, 2018*

Like many companies who work with the GAIN initiative to transform the modern nuclear landscape, Transatomic Power Corporation (TAP) accepted the risks associated with being a "start-up." The tremendous technical work and social awareness that TAP contributed to the advanced nuclear industry should not be diminished. It is clear that they were motivated in large part by the desire to make the world

a cleaner, safer place through the development of their reactor concept. The hope of the GAIN initiative and TAP is that this fundamental work will continue to support the rapidly evolving nuclear community. This is reflected in the TAP decision to open source their technology for all to use as announced by Leslie Dewan (TAP CEO) in the statement below. The GAIN initiative is pleased to have the privilege of facilitating access to the TAP legacy in support of this ideal.

What follows are statements from Leslie Dewan and links to the TAP legacy documents available through GitHub.



*"Transatomic is extremely grateful to the GAIN initiative for supporting our technology development and the growth of the advanced reactor sector as a whole. Via GAIN, we've worked with the Oak Ridge National Lab to validate our reactor's neutronics and fuel cycle performance, and with the Argonne National Lab to gather material property data for our fuel salt. One of the things we like best about our work with GAIN is that, once a project is completed, the results are openly published so that everyone in the advanced reactor community can learn from the research.*

*We saw firsthand the benefits of GAIN's collaborative and inclusive attitude – in a new and rapidly-developing sector like advanced reactor design, everyone wins when we can pool resources and share knowledge. Ultimately, GAIN inspired us to put our reactor design in the public domain, making it available for any researchers – private, public, or non-profit – who want to continue the work we've started.*

*It will take all of us working together to build a robust advanced nuclear sector and make better sources of carbon-free electricity."*

~ Leslie Dewan, TransAtomic Power Corporation

 [Transatomic Legacy Documents](#)

 [Transatomic Final Post](#)

If you have a regulatory question for NRC, please see the [GAIN Regulatory Tab](#) to submit your question.

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