

# ***GAIN Overview***

## **AMM Technical Review Meeting**

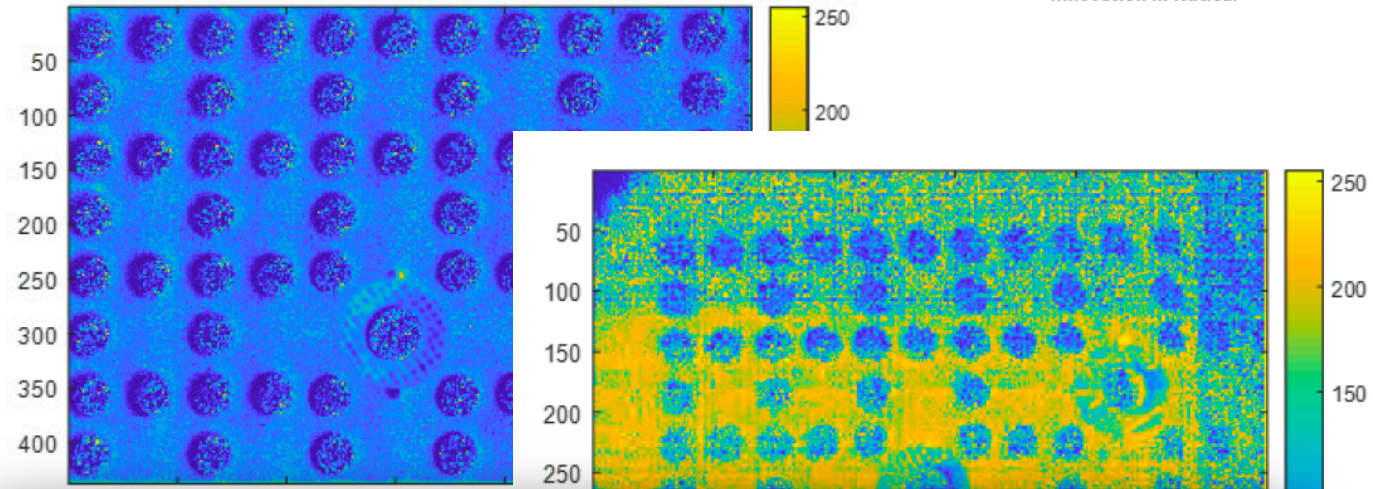
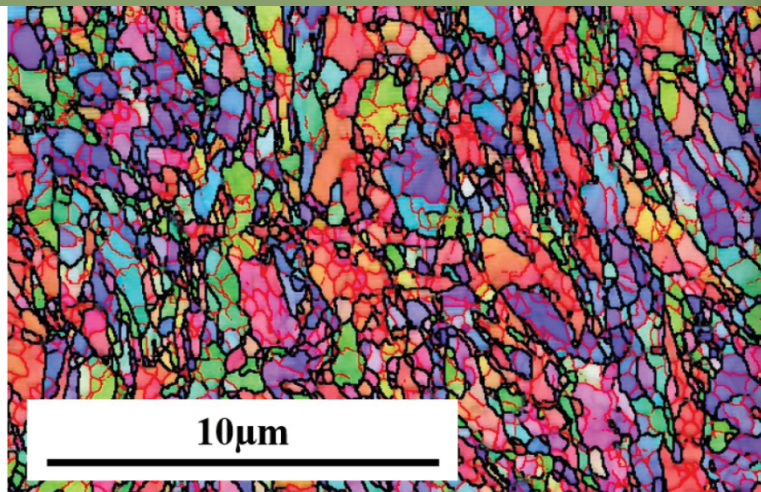
**Lori Braase, GAIN Program Manager**

**December 2, 2020**

## Mission and Vision

### Vision (2030)

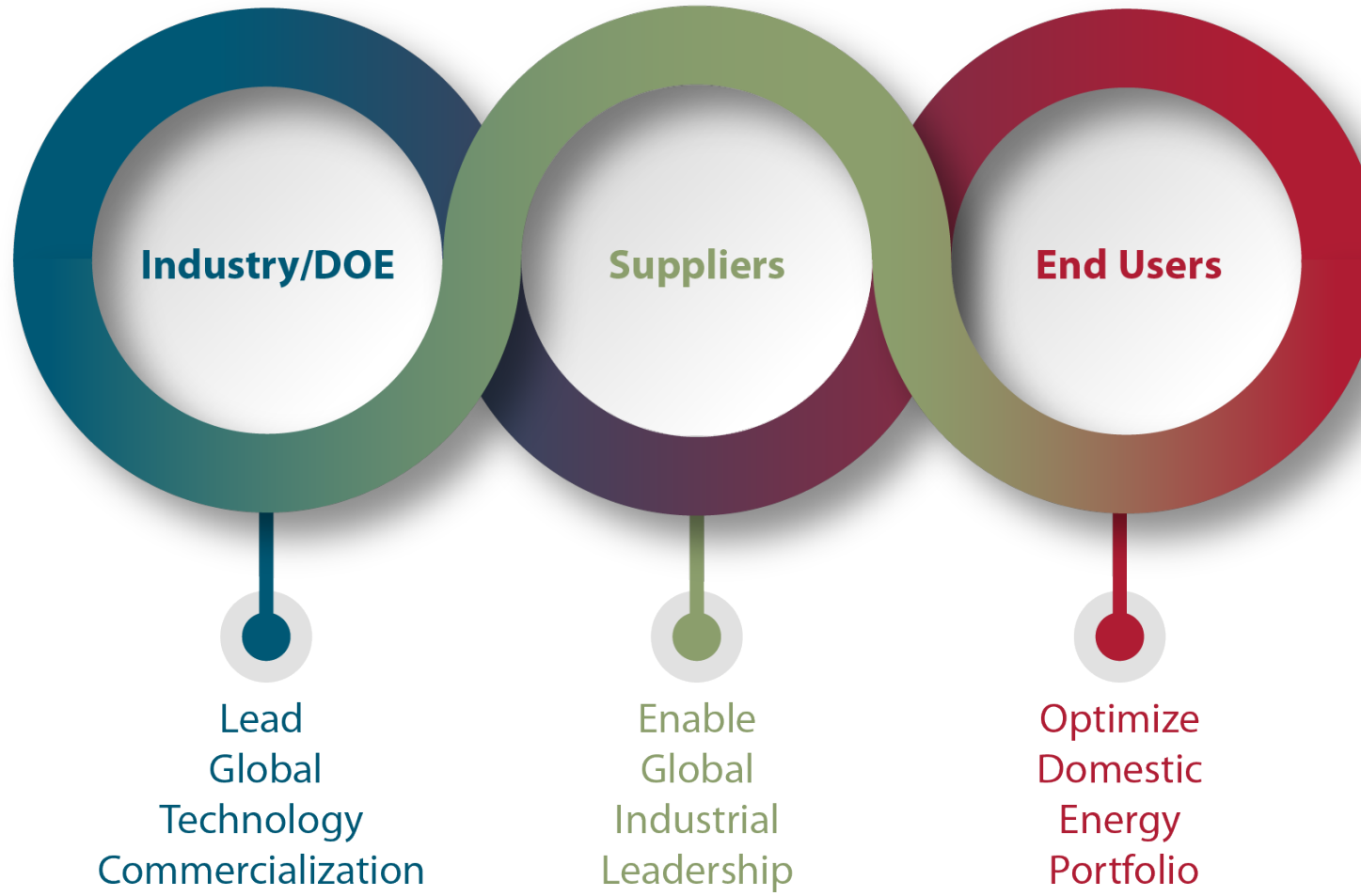
The U.S. nuclear industry is equipped to lead the world in deployment of innovative nuclear technologies to supply urgently needed abundant clean energy, both domestically and globally.



### Mission

Provide the nuclear energy industry with access to cutting-edge R&D, along with the technical, regulatory, and financial support necessary to move innovative nuclear energy technologies toward *commercialization* in an accelerated and cost-effective fashion.

## NUCLEAR ENERGY STRATEGIC GOALS



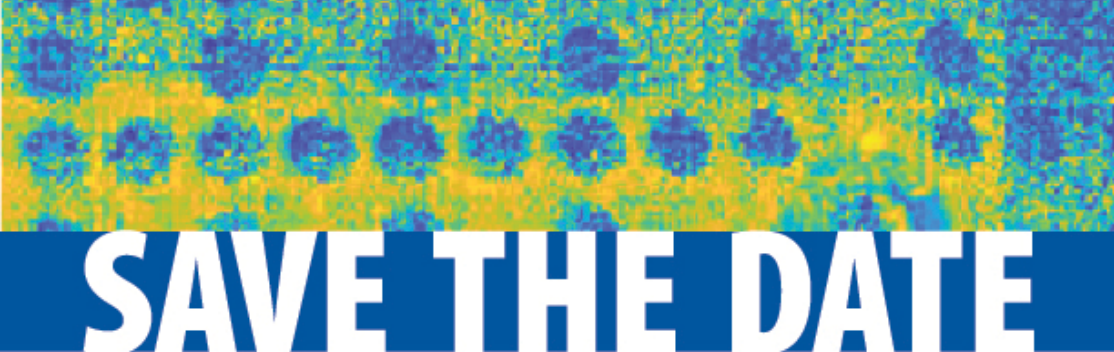
## ***GAIN is Synergistic!***

***“The interaction or cooperation of two or more organizations ....to produce a combined effect greater than the sum of their separate effects.”***

*----Oxford Languages*







# GAIN-EPRI-NEI Advanced Methods for Manufacturing QUALIFICATION WORKSHOP



**AUGUST 24-26, 2021**

INL Meeting Center, 775 MK Simpson Blvd, Idaho Falls, ID 83401

## PURPOSE:

Develop an integrated approach to the AMM qualification process for materials and components and identify current blind spots.

## OBJECTIVES:

- Understand current qualification processes
- Create novel approaches to process qualification
- Identify "what" industry needs in product, properties, and performance
- Identify areas in the AMM Supply Chain qualification that are lacking
- Identify possible synergistic qualification needs from industry through performance requirements
- Identify opportunities to shorten qualification by using AMM techniques
- Identify opportunities to reduce project cost by using AMM techniques

Check out the workshops tab at <https://gain.inl.gov>

| FIRST NAME | LAST NAME        | ORGANIZATION                |
|------------|------------------|-----------------------------|
| Marc       | Albert           | EPRI/AMM                    |
| Marsha     | Bala             | INL/AMM Program             |
| Lori       | Braase           | GAIN                        |
| Dirk       | Cairns-Gallimore | DOE-NE                      |
| John       | Carpenter        | LANL/AMM Technical Team     |
| Jason      | Christensen      | INL/AMM Regulatory          |
| David      | Gandy            | EPRI/AMM                    |
| Ed         | Herderick        | OSU/AMM Technical Team      |
| Ryan       | deHoff           | ORNL/Secure & Digital Manuf |
| Teresa     | Krynicky         | GAIN                        |
| Hillary    | Lane             | NEI/AMM                     |
| Kun        | Mo               | ANL/Adv Manuf               |
| Everett    | Redmond          | NEI/GAIN                    |
| Sarah      | Roberts          | INL/AMM Support             |
| Andrew     | Sowder           | EPRI/GAIN                   |
| Isabella   | Van Rooyen       | INL/AMM NTD                 |
| Ali        | Zbib             | PNNL/AMM Technical Team     |

## GAIN-EPRI-NEI AMM Qualification Workshop Planning Committee

**Industry input on needs & qualification approaches will form the basis for the AMM Roadmap in 2021 and subsequent Implementation Plan.**

Since the beginning of GAIN in 2016, EPRI and NEI have partnered with us with the same goal in mind – to provide access to information, research, and capability advanced nuclear developers/suppliers need to move their technology to commercialization. The three orgs collaborate on events to leverage the depth and breadth of knowledge, industry relationships, and novel approaches to problem solving.

## ***GAIN Industry Partners***

- **Advanced Nuclear Industry** includes nuclear technology developers (fast reactors, high temperature reactors, molten salt reactors, microreactors, light water reactors), supply chain, energy end-users, hybrid-energy collaborators, NEI, EPRI, USNIC, NIA, universities, clean energy organizations, etc.
- **Nuclear Energy Institute (NEI)** is the unified voice of the nuclear energy industry on various policy and technical issues. Their members include nuclear power plants, advanced technology companies, nuclear fuel suppliers, nuclear medicine, nuclear industrial applications, universities, research laboratories, etc.
- **Electric Power Research Institute's (EPRI)** nuclear sector conducts research supporting the safe, reliable, and environmentally responsible use of nuclear power and develops cost-effective technologies, technical guidance, and knowledge transfer tools for existing nuclear assets and new nuclear technology.
- **The United States Nuclear Industry Council (USNIC)** is the leading U.S. business consortium advocate for nuclear energy and promotion of the American supply chain globally.
- **The Nuclear Industry Alliance (NIA)** creates interlocking business relationships among its Members and the local, state, and federal government, to maximize Members' ability to be more competitive and reenergize the U.S. Nuclear Supply Chain business domestically and globally.

