

MARVEL Technology Review

You are invited to participate in the second annual MARVEL Technology Review Webinar on October 19-20, 2022, from 9:00 am to 2:00 pm MT (11:00 am to 4:00 pm ET).

The Microreactor Applications Research Validation and Evaluation Project (MARVEL) is a DOE Microreactor Program-sponsored research effort led by Idaho National Laboratory, in collaboration with Los Alamos National Laboratory and Argonne National Laboratory, to demonstrate microreactor technology and application integration. It will be the **FIRST** microreactor connected to and powering a microgrid! The MARVEL team would like to share their experiences and progress with the broader stakeholder community.

The objectives of this event are to:

- Day 1: Provide an update on MARVEL's technical progress in 2022
- Day 2: Review utilization options and gather initial feedback from the industry on intent to use MARVEL and potential timeframes.

This is an **invitation only** event. If you have questions or know of others that would like an invitation, please email lori.braase@inl.gov.

To register for the virtual **MARVEL Technology Review** on October 19, 2022, at 9:00 a.m. MST, click on the link below:

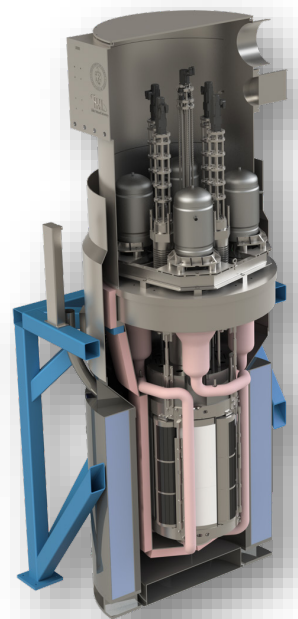
<https://attendee.gotowebinar.com/register/156537895951182606>

To register for the **Utilization of MARVEL** on October 20, 2022, at 9:00 a.m. MST, click on the link below:

<https://attendee.gotowebinar.com/register/1952365839551321100>

After registering, you will receive a confirmation email containing information about joining the webinar.

Microreactor Program website - <https://gain.inl.gov/SitePages/MicroreactorProgram.aspx>



MARVEL Technology Review Agenda

October 19, 2022; 9:00 am – 2:00 pm MT

MT	Topic	Presenter
9:00 am	Welcome / Logistics	Lori Braase
9:05 am	Microreactor Program Overview	Janelle Eddins, DOE-NE John Jackson, Microreactor NTD
	<i>MARVEL Overview & Status</i>	
9:20 am	Reactor Design Overview	Yasir Arafat, Project Lead
	<i>Fission & Safety</i>	
10:00 am	Neutronics	Travis Lange
10:30 am	Fuel Performance Evaluation	Jordan Evans
11:00 am	Thermal Hydraulics & Safety Basis	Carlo Parisi
	<i>Reactivity Controls</i>	
11:30 pm	Control Drum and Shutdown Rod	Anthony Crawford
	<i>Construction & Assembly</i>	
12:15 pm	Final Assembly and Construction	Yasir Arafat
12:45 pm	Open Forum / Q&A	Yasir Arafat Lori Braase

MARVEL Utilization Agenda

October 20, 2022; 9:00 am – 2:00 pm MT

MT	Topic	Presenter
9:00 am	Logistics	Lori Braase
9:05 am	MARVEL Utilization Overview	John Jackson
	<i>MARVEL Reactor Technology</i>	
9:15 am	Readiness & Startup Testing	Yasir Arafat
9:45 am	MARVEL Control Simulator	Ben Baker
10:15 am	Advanced Sensor & Controls Deployment	Troy Unruh
	<i>MARVEL Applications</i>	
10:45 am	Integrated Energy Systems Including Nuclear	Shannon Bragg-Sitton
11:15 am	Microgrids and MARVEL	Kurt Myers
11:35 am	Hydrogen Production: Heat & Power	Micah Casteel
11:55 am	INL Net Zero Pilot	Sam Dixon
	<i>Accessing MARVEL: Funding & Schedule</i>	
12:30 pm	GAIN Nuclear Energy Voucher Program	Chris Lohse
12:45 pm	Cleantech Integrated Energy Systems Network (CIESN) Incubator	Richard Adams Corey McDaniel
1:00 pm	Initial User Engagement	John Jackson
1:15 pm	<i>Industry Needs/Feedback to Inform MARVEL Testing Requirements and Schedule</i>	John Jackson Lori Braase
1:45 pm	Summary and Call to Action	John Jackson Yasir Arafat