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NUCLEAR DIGEST



Below are highlights from the most recent research at Idaho National Laboratory – the nation's center for nuclear energy research and development. These items are available to run in your publication or on your website. If you're interested in writing your own story, contact our media relations team and they can connect you with the experts you'll need. See more INL news at www.inl.gov. Follow us on social media: [Twitter](#), [Facebook](#), [Instagram](#) and [LinkedIn](#).

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BRINGING RESILIENT POWER TO PUERTO RICO WITH MICROREACTORS

The Puerto Rico Electric Power Authority began addressing the challenge of energy independence with an Integrated Resources Plan that calls for a steady increase of renewables as well as natural gas. Yet the minimum amount of electricity needed is high enough that it is difficult to meet relying primarily wind and solar power. To meet the demand without the need for more fossil fuels, one promising candidate is the use of microreactors.

[Click here to download story and images.](#)



SUSTAINABLE ENERGY ECONOMY WORKSHOP: LIGHT WATER REACTOR AND HYDROGEN HYBRIDS

This past January, The University of Toledo hosted the Sustainable Energy Economy Workshop: Research & Development of Light Water Reactors and Hydrogen Hybrids. As the follow-up report explains, central to the workshop was to "explore opportunities in repurposing light water nuclear reactors (LWR) for hydrogen production through a hybrid systems design," with Energy Harbor's Davis-Besse Nuclear Power Station serving as the laboratory. [Click here to download story and images.](#)



IDAHO LAB, UNIVERSITY CONTRIBUTE TO NASA'S TITAN MISSION

In the summer of 2019, NASA announced another mission to the surface of Titan: Dragonfly, which is scheduled for launch in 2026. Like Cassini, the Dragonfly spacecraft would use a radioisotope power system (RPS) provided by experts at U.S. Department of Energy national laboratories. Idaho's national lab and its land-grant university are both contributing to the mission. [Click here to download story and images.](#)

POWERING PERSEVERANCE

INL assembles, tests and delivers power systems



for NASA's deep-space missions including the Perseverance Rover that is launching to Mars later this summer. [Click here for a behind the scenes look at INL's work.](#)



[PATHWAYS TO PARTNERSHIP: FRESH EYES, CREATIVE THINKING DEFINE GAIN'S APPROACH TO SOLUTIONS](#)

For decades, outsiders' access to the national lab system's resources was limited, but in 2015, DOE launched the Gateway for Accelerated Innovation in Nuclear (GAIN). Its mission: to speed up commercialization of new reactor designs and support technologies intended to improve the performance of today's nuclear plants. [Click here to download story and images.](#)



[INL RESEARCHER SELECTED FOR DOE EARLY CAREER RESEARCH PROGRAM](#)

Dr. Paul Humrickhouse, INL's Fusion Safety Program lead, is one of 76 scientists from around the nation – 50 from universities and 26 from national laboratories – to be selected to participate in the U.S. Department of Energy's Early Career Research Program. Under the program, run by the DOE Office of Science and now in its 11th year, researchers at DOE national laboratories receive grants of at least \$500,000 per year. [Click here to download story and image.](#)