

Subject: APL Advances — August 2023
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APL ADVANCES

Critical Contributions to Critical Challenges • August 08, 2023



Top Stories



Laboratory Restores Cold Sensation in Amputees' Phantom Limbs

Johns Hopkins APL researchers have developed one of the world's smallest, most intense refrigeration devices. The adhesive bandage-like device mimics the body's natural and rapid ability to sense temperature, and bioengineers at the Lab are now using it to help amputees perceive a sense of cold in their phantom limbs.



Medics and Machines: Developing Robotic Technologies to Provide Assured Care in the Field

APL researchers are exploring how new capabilities in artificial intelligence, augmented reality and robotics might support collaborative intervention by teams of medics, AI-based virtual assistants and autonomous robots.



APL Particle Instruments Aboard Europe's Jupiter Mission Successfully Hum to Life

Just months after a successful launch from French Guiana, the two particle-detecting instruments APL built on behalf of NASA for Europe's Jupiter Icy Moons Explorer mission have

already displayed their sophisticated capabilities.



Strategy-Driven Innovation: APL Authors Examine Lab's Integrated Systems Approach

A comprehensive examination of APL's integrated approach to strategy is featured in the current issue of the "IEEE Engineering Management Review," published by IEEE.

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Upcoming Events



Retirement Ceremony and Homecoming Luncheon

Friday, September 29, at 12 p.m.
Kossiakoff Center



Retirement Ceremony and Homecoming Luncheon

Friday, Sept. 29, 12 p.m. • APL's Kossiakoff Center

APL's 2023 Retirement Ceremony and Homecoming Luncheon will take place on Friday, Sept. 29, at 12 p.m. in the Kossiakoff Center. The event will honor those who retired from the Lab between Aug. 16, 2022, and July 15, 2023. The ceremony will bring current and former APL staff members together to honor the Lab's recent retirees and will include remarks from APL Director Ralph Semmel. Tours will also be offered to guests of one of APL's newest buildings, Building 201 on South Campus. All attendees must [RSVP](#).



The APL Technical Digest



Concept Design and Realization

Volume 36, Number 4 (2023)

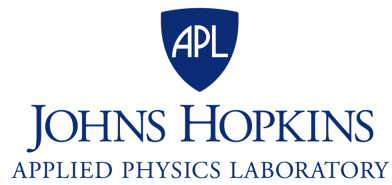
The latest issue of the Johns Hopkins APL Technical Digest, the first of two, describes the Lab's significant advances in the development and fabrication of complex systems over the past two decades. These breakthroughs in hardware design, mechanical and electrical fabrication, systems integration and manufacturing science will benefit the programs and missions of today and those in the future.



Staff Spotlights

APL Names Kristine Frohman as Head of Talent Services and Chief Diversity, Equity and Inclusion Officer

In her role as head of Talent Services, Frohman provides executive leadership for the people and programs focused on delivering human resources services to the entire enterprise, including recruiting and hiring, compensation and benefits, training and development, environmental health and safety, and STEM (science, technology, engineering, and math) education and outreach.



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