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JOHNS HOPKINS APPLIED PHYSICS LABORATORY

APL ADVANCES

Critical Contributions to Critical Challenges • April 09, 2024

Top Stories

Johns Hopkins APL and Navy Chart Next Steps to Accelerate 3D-Printing Advancements

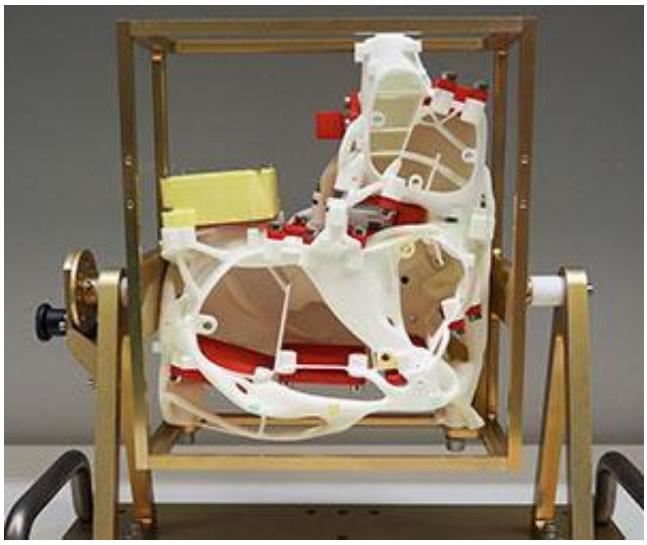
To address manufacturing challenges, the Navy is prioritizing the development and fielding of additive manufacturing systems, often called 3D printers, to supplement traditional casting methods and accelerate submarine production. APL is leading the charge in the development of tools and strategies that will speed up and improve inspection of additively manufactured parts.

Protecting America’s Food and Agriculture From Emerging Threats

America’s food supply faces a number of emerging threats, including the effects of climate change, cyberattacks and even espionage. As the U.S. government enhances defense of agricultural systems, researchers at APL are poised to assist.

APL Team Readies Advanced Imager for Integration Onto NASA’s Interstellar Mapping and Acceleration Probe

Another instrument planned for flight aboard NASA's Interstellar Mapping and Acceleration Probe (IMAP) is ready for installation on the spacecraft. IMAP-Ultra, a particle imager capable of capturing energetic neutral atoms, particularly hydrogen atoms, made the short trip between clean rooms on APL's campus as part of IMAP's integration and testing campaign.



Lab Researchers Take Additive Manufacturing to New Heights

Engineers and researchers at APL recently won two awards from The Minerals, Metals & Materials Society for their study on 3D-printing a space instrument to detect and source air pollution. The project marks a significant milestone in the 3D-printing industry because it relies on an end product to help build a framework for material selection, characterization and development.

Read More Stories

3rd National Workshop on Marine eDNA

June 3-5 • Johns Hopkins APL, Laurel, MD, and Smithsonian National Museum of Natural History, Washington, D.C.

The biennial National Workshop on Marine Environmental DNA (eDNA) serves as a mechanism to bring together researchers, practitioners and policymakers to discuss eDNA technologies, newly released national strategies and implementation priorities. The three-day workshop will include speaker presentations and panel discussions as well as poster/demo and networking sessions. Shuttles will be provided to transport guests from Laurel, Maryland, to Washington, D.C., for the last day of the event. Registration is open.

Awards & Recognition

APL Honored Twice on Fast Company's 2024 'Most Innovative Companies' List

Two breakthrough technologies from APL received Most Innovative Companies awards from Fast Company. APL was ranked No. 6 in the Rapid Response category for biothreat characterization technology and No. 10 in the Applied Artificial Intelligence (AI) category for its use of AI to identify climate tipping points.

Staff Spotlights

Remembering Trailblazing APL Mathematician Ella Dobson

Ella Dobson, whose pioneering work in ocean remote sensing at APL spanned 36 years, left a profound impact on science, embodying the spirit of both Black History Month and Women's History Month. Her legacy continues to inspire future generations in the STEM fields.