

Subject: APL Advances — July 2024

Date: Tuesday, July 9, 2024 at 3:55:55 PM Eastern Daylight Time

From: Johns Hopkins APL



APL ADVANCES

Critical Contributions to Critical Challenges • July 09, 2024



Top Stories



Interactive Story: Into Vanishing Ice

The melting Arctic is creating new trade, economic, and operational opportunities — but also new challenges that could threaten the U.S. border and the region’s fragile ecosystem. In this interactive story, learn how researchers at Johns Hopkins APL are pooling their expertise and established experience in materials, modeling, AI, and sensing to develop the technology and knowledge for a sustainable and lasting foothold in this rapidly changing region.



AI Copilots Set to Engage the Future of Air Combat

Building on more than a decade of pushing the boundaries of what artificial intelligence can do in air combat, engineers and air combat specialists at APL have made significant progress in creating a copilot that will grant the power, speed and precision of machine computation to human fighter pilots.



Johns Hopkins Researchers Develop AI-Enhanced Navigation System for Visually Impaired

Johns Hopkins researchers have developed an innovative navigation system designed to help blind or visually impaired users of prosthetic vision devices by improving their independence and

mobility through enhanced environmental awareness and navigation support.



Submarine Technology Symposium at APL Prepares for Today's Undersea Competition

Co-sponsored by Commander, Submarine Forces, and the Naval Submarine League and hosted by APL, the 36th annual Submarine Technology Symposium explored how technology developers are reacting to the evolving state of undersea and seabed warfare. Many speakers cited how, during the next few years and decades, the trilateral security agreement between Australia, the United Kingdom and the United States – known as AUKUS – will counter the aggressive growth of undersea capabilities among adversaries.



APL, University of Colorado Boulder Advance in NASA Space Weather Proposal Opportunity

A multi-institutional team including APL and the University of Colorado Boulder is one of three concept teams chosen by NASA competing to develop Phase-A proposals to study space weather and how it links to Earth's atmosphere.

[Read More Stories](#)



Upcoming Events



2024 Analysis & Decision Advantage in an Era of Great Power Competition (ADEC)

Sept. 17 and 18, 2024 • Johns Hopkins APL, Laurel, MD

The 2024 Analysis & Decision Advantage in an Era of Great Power Competition (ADEC) event will take place at APL on Sept. 17 and 18. This classified conference will engage the national security analysis community on innovative methodologies and explore analysis and decision superiority as sources of strategic, operational and tactical advantage.



2023 Diversity, Equity & Inclusion Annual Report

APL has published its fourth Diversity, Equity & Inclusion Annual Report. The publication communicates the Lab's commitment to diversity, equity and inclusion; strengthens its reputation among its peers; and educates both staff members and the public on APL's diversity-focused resources and initiatives.



JOHNS HOPKINS
APPLIED PHYSICS LABORATORY

© 2024 The Johns Hopkins University Applied Physics Laboratory LLC. All rights reserved.
11100 Johns Hopkins Road, Laurel, Maryland 20723 • (240) 228-5000

[Manage](#) your preferences | [Opt Out](#) using TrueRemove™
Got this as a forward? [Sign up](#) to receive our future emails.
View this email [online](#).

11100 Johns Hopkins Road | Laurel, MD 20723 US