

Subject: APL Advances — October 2023

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APL ADVANCES

Critical Contributions to Critical Challenges • October 10, 2023



Top Stories



Johns Hopkins APL Provides Critical Contributions to Successful Ballistic Missile Intercept Test

In cooperation with the U.S. Missile Defense Agency and the U.S. Navy, APL recently supported the successful Flight Test Aegis Weapon System 31 Event 1a.



Parker Solar Probe’s Path Through Solar Blast Yields Unparalleled Space Weather Insights

NASA’s Parker Solar Probe has racked up an impressive list of superlatives in its first five years of operations. Now, Parker has one more feather to add to its Sun-kissed cap: It’s the first spacecraft ever to fly through a powerful solar explosion near the Sun.



APL Pilots U.S. Joint Forces Orientation Tour for Staff Members

In June, APL piloted a program that featured an orientation tour of U.S. joint force operations for APL staff members. The goal of the program was to expose APL technical staff to the operational context of the joint force, and to interact with military personnel to gain an appreciation for their experience.



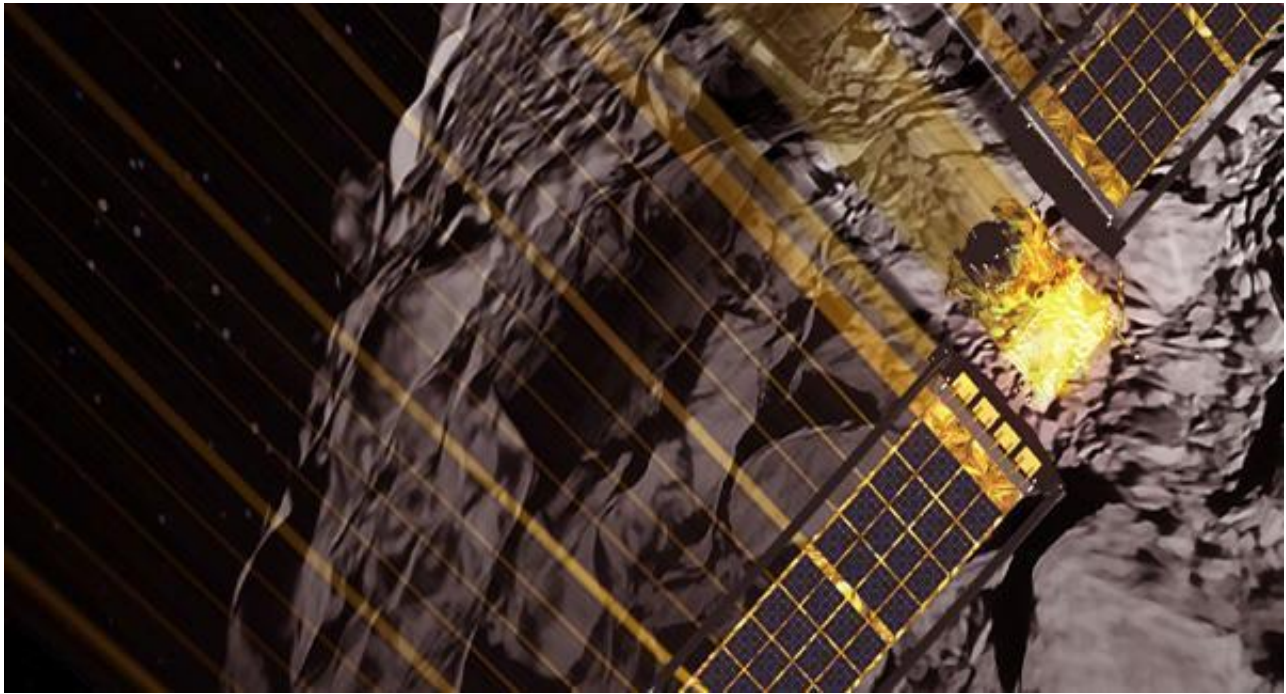
Expanding eDNA Research and Physical Oceanography Into Critical Polar Regions

On an exploratory trip to Antarctica, APL researchers collected environmental DNA samples and physical oceanographic data that could provide insights into ecosystem dynamics in and around Earth's southernmost continent.

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Awards & Recognition



From Impact to Innovation

A Year of Science and Triumph for Historic DART Mission

Last fall, the world watched as the DART spacecraft – the Double Asteroid Redirection Test – guided itself toward the asteroid Dimorphos for a direct collision, a major technical achievement and the first successful planetary defense test in history. As a part of NASA’s overall planetary defense strategy, DART’s impact with the asteroid Dimorphos demonstrated a viable mitigation technique for protecting the planet from an Earth-bound asteroid, if one were discovered. Revisit DART’s triumphant collision with Dimorphos and the resulting year of science analysis and discoveries that followed.



Upcoming Events



4th Annual Cislunar Security Conference

December 5-7, 2023 • Johns Hopkins APL

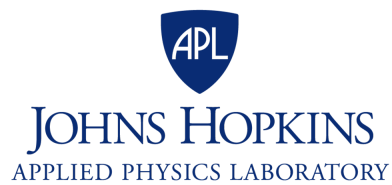
The Cislunar Security Conference is a forum on the technology, policy, doctrine and strategy implications of ensuring free access to, transit to and use of the Earth-Moon system beyond geosynchronous equatorial orbit. Space is quickly becoming an even more critical part of the nation's scientific and national security agendas, with increased attention on activities in the vicinity of the Moon and on its surface. The goal for this conference is to encourage national-level technical discourse related to domain awareness, policy and strategy, communications and infrastructure, trajectory design, threats and position, navigation and timing for cislunar security.



Staff Spotlights

APL Undersea Warfare Expert Earns National Defense Industrial Association Bronze Medal

Lee Rogers, chief engineer of the Sea Control Mission Area at APL, was awarded the Bronze Medal Award for Technical Achievement in Undersea Warfare at the National Defense Industrial Association (NDIA) 2023 Undersea Warfare Fall Conference.



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