

MILESTONES 2023



The first images returned by NASA's Lucy spacecraft flyby of a small main belt asteroid showed that Dinkinesh has a moon. The inset image shows the "moonrise" of Dinkinesh's satellite at the point of closest approach. However, as more data was returned, a different perspective revealed that the satellite is a contact binary, made of two smaller objects touching each other, shown in the background "family portrait." Over Lucy's 12-year journey, the spacecraft will fly by eight target asteroids with three known satellites.

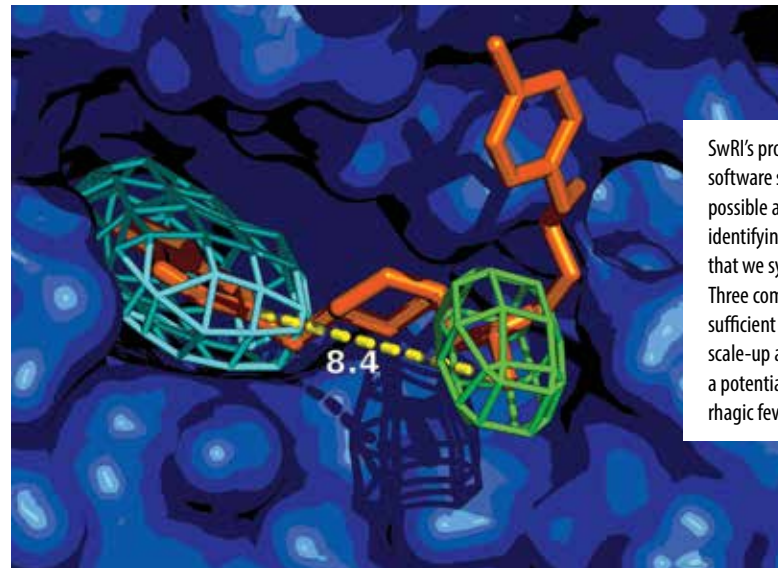
IMAGE COURTESY NASA/GODDARD/SMART/JOHNS HOPKINS APL

PATENTS & inventions

42 U.S. PATENTS awarded

U.S. PATENT 34 applications filed

36 INVENTION disclosures submitted



SwRI's proprietary Rhodium™ software screened millions of possible antiviral compounds, identifying 88 viable candidates that we synthesized for testing. Three compounds exhibited sufficient potency to warrant scale-up and further evaluation as a potential treatment for hemorrhagic fevers, such as Ebola.

AWARDS

- Dr. Frederic Allegrini:** Professor Heinrich Greinacher Foundation Greinacher Prize
- Dr. Tracy Becker:** American Astronomical Society's Division for Planetary Sciences Carl Sagan Medal
- Dr. David Ferrill:** Gordon Atwater Best Professional Poster Award from the Gulf Coast Association of Geological Societies
- Matthew Herron:** 2023 Safety Professional of the Year by the American Society of Safety Professionals
- Thomas Leone:** Edward N. Cole Award from the Society of Automotive Engineers
- Dr. Sarah Shaffer:** 2023 James M. Wilson Award for Outstanding Equine Research Publication

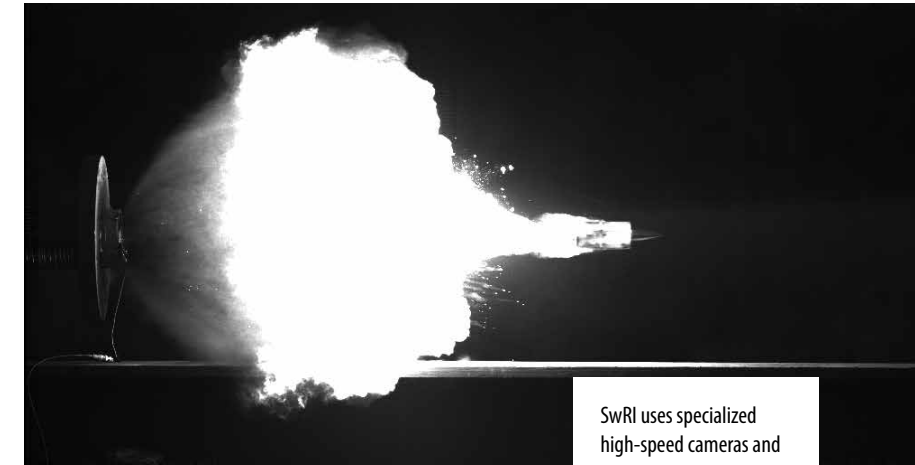
517 P A P E R S
P U B L I S H E D
P O D C A S T S 15
41 W E B I N A R S
P R E S E N T A T I O N S
G I V E N 577
25 S T R E A M I N G
M E D I A

HONORS

- Dr. Robin Canup:** appointed to National Academy of Sciences (NAS) Space Studies Board
- Joseph Cardinal:** inducted into 2023 class of Space Technology Hall of Fame with NASGRO®
- Dr. Peter Lee:** elected Fellow of the Society of Tribologists and Lubrication Engineers
- Dr. Craig McClung:** inducted into 2023 class of Space Technology Hall of Fame with NASGRO®
- Dr. John Stamatakis:** member of the NAS Committee on Geological and Geotechnical Engineering
- Dr. Danielle Wyrick:** elected Fellow of the Geological Society of America

3,129
EMPLOYEES

315 DOCTORATES
612 M A S T E R S
972 B A C H E L O R S
223 A S S O C I A T E S



SwRI uses specialized high-speed cameras and equipment to image hypersonic projectiles in flight, capturing and visualizing invisible features such as shock waves and turbulence, as this projectile launches at four times the speed of sound.



SwRI received a 2023 R&D 100 award recognizing the Wideband Conformal Continuous-Slot Antenna Array that collects signals to determine enemy locations as one of the top 100 inventions of the year. The innovative, compact antenna array — part of SwRI's AS-750 family of advanced antennas — operates in the super-high and ultra-high frequency bands of the electromagnetic spectrum. Measuring just seven inches in height (not shown to scale), this novel system can operate from a lower position on a ship mast, freeing up valuable space for higher-priority communications systems — a distinct advantage over comparable antenna technology.

