



#### Roll-Out Solar Array (ROSA)

Traditional satellite solar panels use large-area honeycomb structures that accordion fold and use motor-driven, synchronized mechanical hinges to deploy on-orbit. The Air Force Research Laboratory Space Vehicles Directorate has broken that paradigm by developing the roll-out solar array, or ROSA, which uses stored strain-energy in composite slit-tube booms to deploy a flexible array, thereby eliminating a significant portion of the complex, expensive, and heavy components used on traditional solar panels. ROSA shrinks the stowed volume by a factor of six, reducing launch costs, and its thin mesh blanket and composite boom structure improve mass by 25 percent, increasing satellite mission performance.

#### **AFRL Space Vehicles Directorate**

Located at Kirtland Air Force Base, N.M., the Space Vehicles Directorate serves as the Air Force's Center of Excellence for space technology research and development, and develops and transitions space technologies to provide space-based capabilities to the warfighter while always addressing affordability, efficiencies, and operations need. The Directorate operates on 438,000 square feet of laboratory and office space, and supports over 50 state-of-the-art research laboratories and testing structures at Kirtland.

www.kirtland.af.mil/Units/AFRL-Space-Vehicles-Directorate



Photo credit: Tom Jones, NASA (cover); Anita Collins, AFRL

AFRL scientist Paul Hausgen demonstrates deploying the composite roll-out solar array slit-tube boom. The booms do not require external power, but deploy under their own stored-strain energy.

## About the FLC



Formally chartered by the Federal Technology Transfer Act of 1986, the Federal Laboratory Consortium for Technology Transfer (FLC) is a nationwide network of over 300 federal laboratories, agencies, and research centers that fosters commercialization best practice strategies and opportunities for accelerating technologies from out of the lab and into the marketplace. The American taxpayers' investment in our national laboratories' research and development (R&D) efforts has spurred scientific and technological breakthroughs that can return dividends for our economy, such as creating new industries, businesses, and jobs, when introduced to the marketplace.

The FLC's mission is to promote, educate, and facilitate federal technology transfer (T2) among its member labs and institutions so they can commercialize technologies and create social and economic impacts with new innovative technologies. Through the various resources, education and training, tools, and services the FLC creates and provides for its members, federal labs are better able to create partnerships, navigate the commercialization process, and achieve market success.

By serving as the touch point for T2 communication, education, and open data services tools, the FLC plays a central role in providing the skilled T2 workforce that our country desperately needs. These highly motivated T2 professionals are the driving force behind improving federal labs' ability to effectively partner with the private sector. The FLC strives to support the dedicated individuals who make up the federal laboratory system by continuing to serve as a gateway for industry, government, and academia to access R&D in an effort to stimulate our nation's economic health.



@federallabs



1 Far West

Regional Coordinator: Jennifer Stewart Naval Surface Warfare Center, Corona Division www.flcfarwest.org

Mid-Continent

Regional Coordinator: Jack James

NASA Japases Space Contor

Midwest

- NASA Johnson Space Center www.flcmidcontinent.org
- Regional Coordinator: Brooke Pyne
  Naval Surface Warfare Center,
  Crane Division
  www.flcmidwest.org

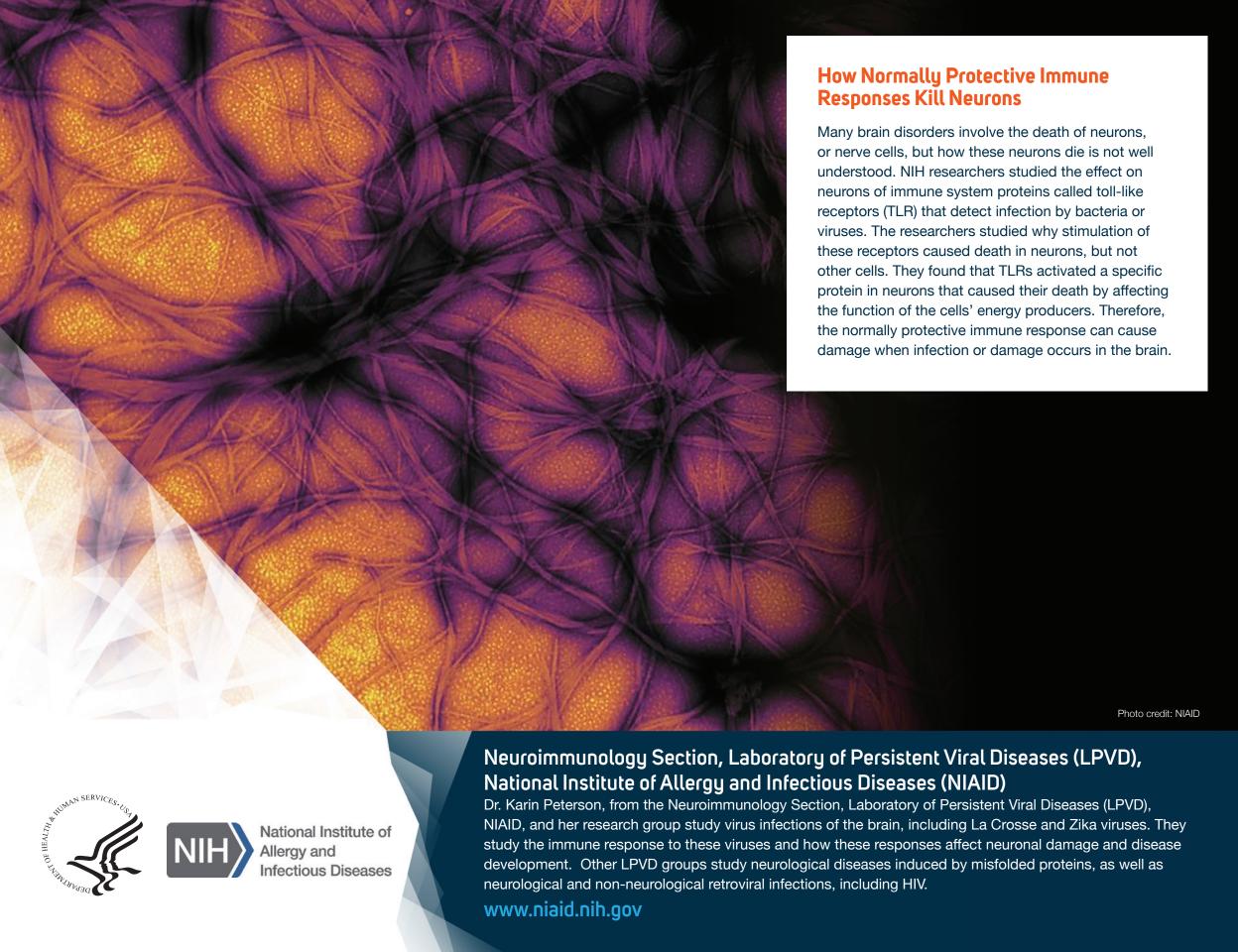
Northeast

Regional Coordinator: Valerie Larkin Naval Undersea Warfare Center Division Newport www.flcnortheast.org

- Mid-Atlantic
  - Regional Coordinator: Robert Griesbach, Ph.D. USDA-Agricultural Research Service www.flcmidatlantic.org
- Southeast

  Regional Coordinator: Jeremy Benton
  Y-12 National Security Complex

  www.flcsoutheast.org



## December 2016





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
November 2016  S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25 Christmas Day	26	27	28	29	30	31







#### Oak Ridge National Laboratory (ORNL)

ORNL is a multiprogram science and technology laboratory managed for the U.S. Department of Energy by UT-Battelle, LLC. Scientists and engineers at ORNL conduct basic and applied research and development to create scientific knowledge and technological solutions that strengthen the nation's leadership in key areas of science; increase the availability of clean, abundant energy; restore and protect the environment; and contribute to national security.

www.ornl.gov

# January





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>1</b> New Year's Day	2	ω (C)	4	5	6	7
8	9	10	11	12	13	14
15	16  Martin Luther King, Jr. Day	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	19 20 21 22 23 24 25

#### **Diver Augmented Vision Display (DAVD)**

The Diver Augmented Vision Display (DAVD) prototype uses waveguide optical display technology integrated into the U.S. Navy KM-37 dive helmet to provide high-resolution, see-through, heads-up display capability for a diver working in the harsh maritime environment. The waveguide modules are similar to those used in smart glasses and can display sonar, text messages, videos, schematics and augmented reality imagery to support ship husbandry, salvage, underwater construction, and related military dive missions. This game-changing capability also has application for the public safety, commercial, and scientific diving communities operating in low-visibility underwater conditions to keep users safer and more efficient underwater.









#### Naval Surface Warfare Center (NSWC), Panama City Division

NSWC, Panama City Division is the Technical Center of Excellence for Littoral Warfare and Coastal Defense. The mission of NSWC Panama City Division is to conduct research, development, test and evaluation, in-service support of mine warfare systems, mines, naval special warfare systems, diving and life support systems, amphibious/expeditionary maneuver warfare systems, and other missions that occur primarily in coastal (littoral) regions, and to execute other responsibilities as assigned by Commander, NSWC.

www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Panama-City

# February





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	March 2017       S     M     T     W     T     F     S       1     2     3     4       5     6     7     8     9     10     11       12     13     14     15     16     17     18       19     20     21     22     23     24     25       26     27     28     29     30     31		1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20 Presidents' Day	21	22	23	24	25
26	27	28				





The FAA William J. Hughes Technical Center is the nation's premier air transportation system laboratory. The Tech Center's workforce conducts test and evaluation, verification and validation, and sustainment of the FAA's full range of aviation systems, and develops scientific solutions to current and future air transportation safety challenges by conducting applied research and development. Additionally, the Center provides the gateway for National Airspace System upgrades, improvements, and operational sustainment.

www.tc.faa.gov

## March





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
February 2017  S M T W T F S  1 2 3 4  5 6 7 8 9 10 11  12 13 14 15 16 17 18  19 20 21 22 23 24 25  26 27 28	April 2017  S M T W T F S  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23/30 24 25 26 27 28 29		1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## Laser-Guided Intelligent Sprayer Technology for Reduced Pesticide Use

A laser-guided intelligent sprayer was developed by USDA-ARS scientists and university collaborators for optimized pesticide application based on plant canopy structure. This sprayer is compatible with diverse crop architectures and reduces pesticide use by up to 70%, airborne spray drift up to 87%, and spray loss on the ground up to 93%. This technology offers an environmentally responsible approach to insect pest and plant disease management by reducing pesticide use, production costs and worker exposure.





#### **USDA-ARS Application Technology Research Unit**

The USDA, Agricultural Research Service, Midwest Area, Application Technology Research Unit located in Wooster, Ohio, incorporates engineering, entomological, plant pathological and horticultural principles to develop innovative and improved technologies, and conducts basic and applied research to protect floricultural, nursery, landscape, horticultural, greenhouse, and field crops against damage from diseases, pests, and adverse environmental conditions while safeguarding environmental quality, food and worker safety.

www.ars.usda.gov







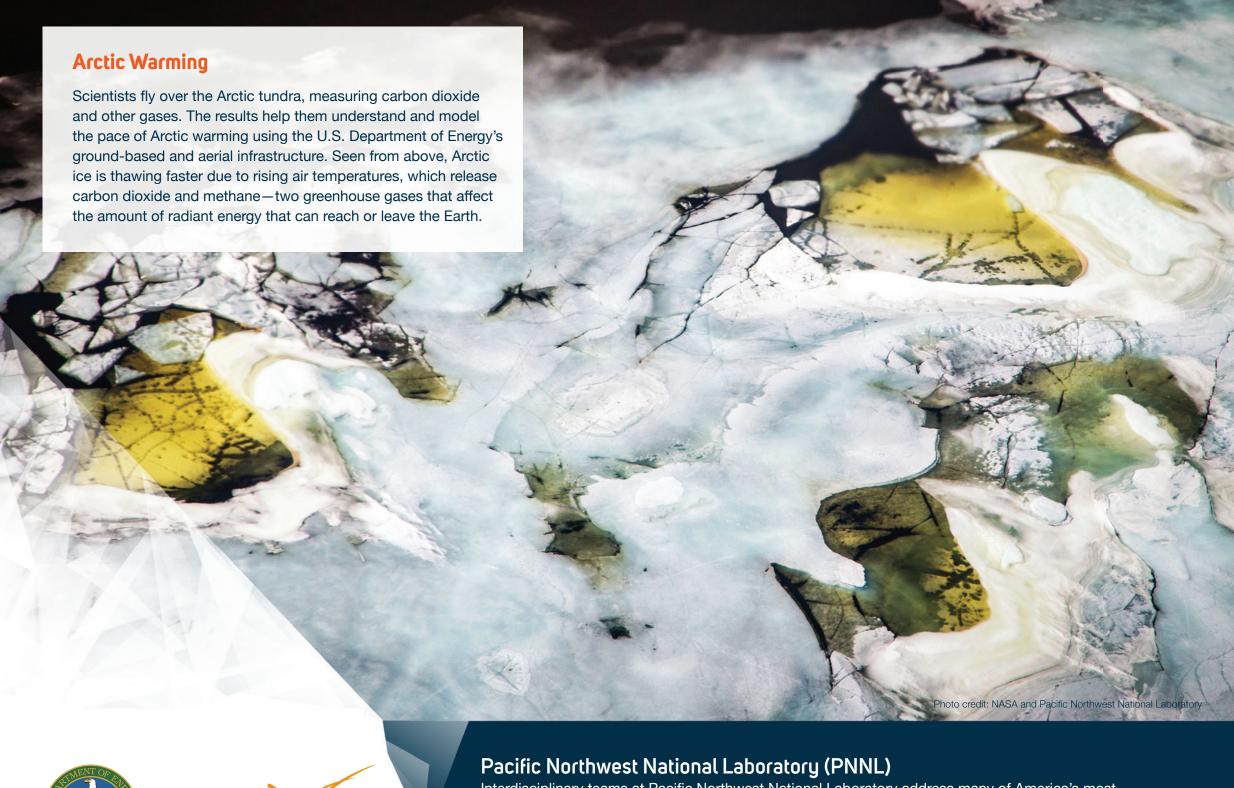
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S M T V 5 6 7 8 12 13 14 1	1 2 3 4 8 9 10 11 15 16 17 18 22 23 24 25	May 2017       S     M     T     W     T     F     S       1     2     3     4     5     6       7     8     9     10     11     12     13       14     15     16     17     18     19     20       21     22     23     24     25     26     27       28     29     30     31					1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
23		24	National Meeting  For more information	100	AN VTONIO	28	29
	30		visit meeting.federallab	s.org Apr	il 25 - 27, 2017		







Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29  Memorial Day	30	31		April 2017  S M T W T F S  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23/30 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24







Interdisciplinary teams at Pacific Northwest National Laboratory address many of America's most pressing issues in energy, the environment, and national security through advances in basic and applied science.

www.pnnl.gov

## June





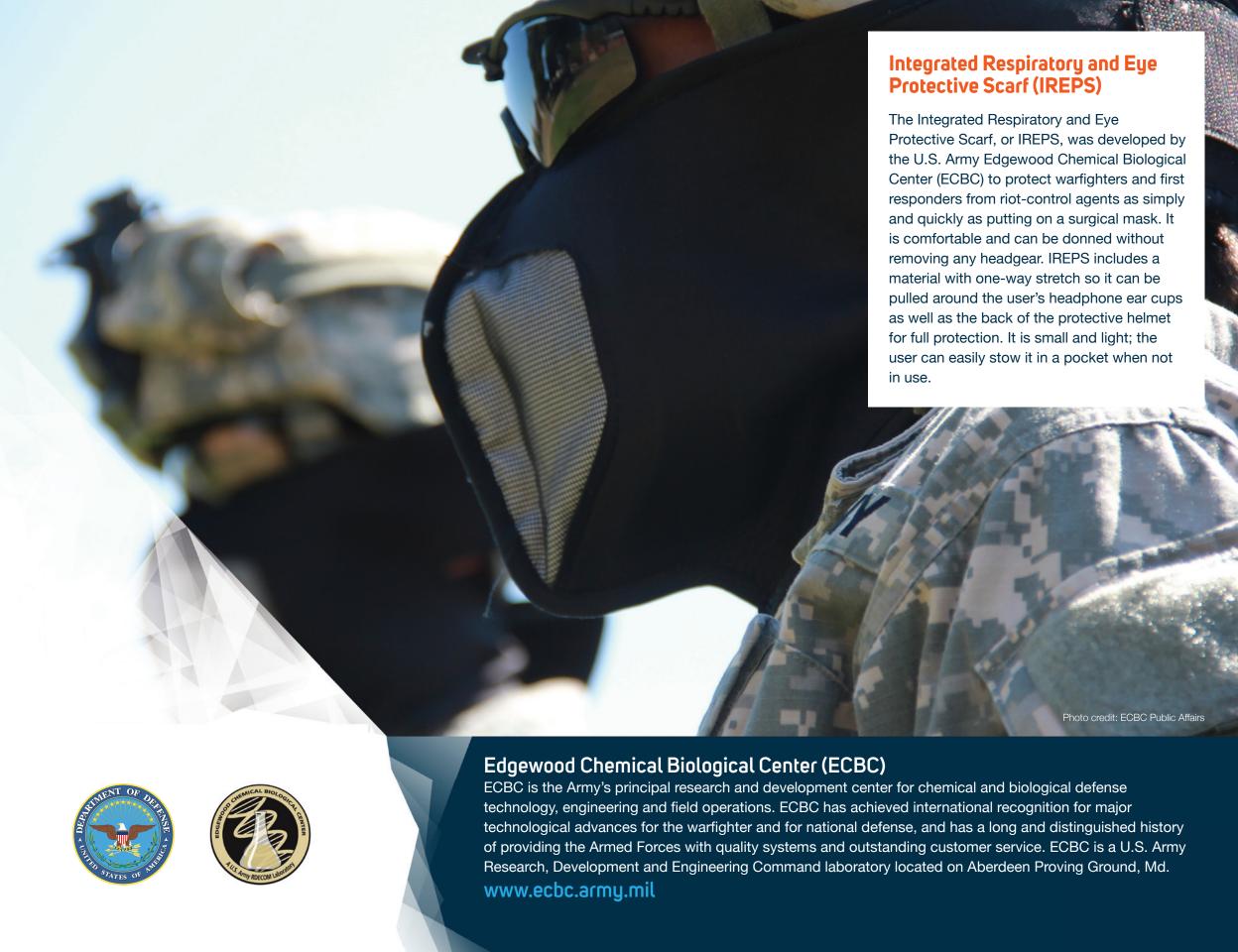
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
May 2017  S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	July 2017  S M T W T F S  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23/30 24/31 25 26 27 28 29			1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	







Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 2017       S     M     T     W     T     F     S       1     2     3       4     5     6     7     8     9     10       11     12     13     14     15     16     17       18     19     20     21     22     23     24       25     26     27     28     29     30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19					1
2	3	4 Independence Day	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24 31	25	26	27	28	29



# August

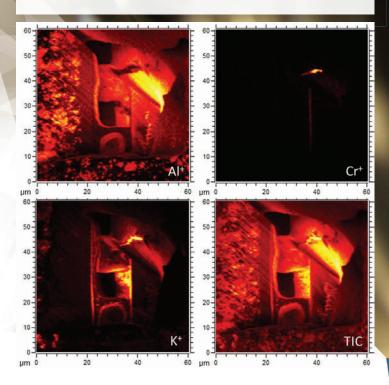




Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
July 2017  S M T W T F S  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23/30 24/31 25 26 27 28 29	September 2017  S M T W T F S 1 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1	2	3	4	5
6	7	8	0	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

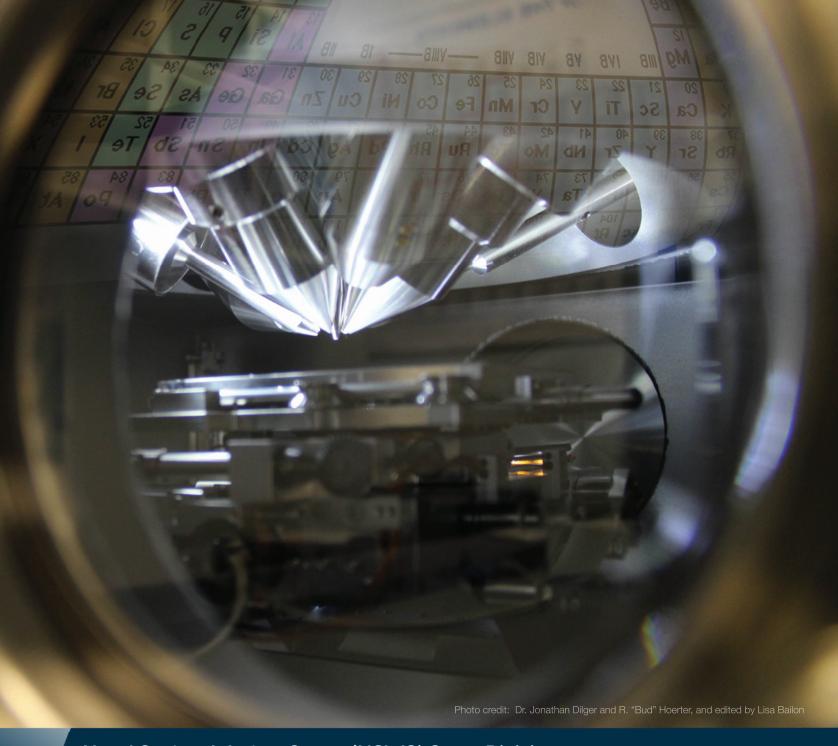
#### Time of Flight Secondary Ion Mass Spectrometer

The Time-of-Flight Secondary Ion Mass Spectrometer (TOF-SIMS) provides Naval Surface Warfare Center (NSWC) Crane Division scientists with trace molecular analysis and sub-micron surface measurements to probe the reliability of strategic systems hardware. The TOF-SIMS delivers a complete ion signature achieved by means of a surface rasterization with a focused ion beam. Complementary images are generated using the discrete elemental or molecular ion intensities to diagnose root-cause subcomponent failures of microelectronics, as displayed for a surface-mounted microelectronic resistor.









#### Naval Surface Warfare Center (NSWC) Crane Division

Specializing in harnessing the power of technology for the warfighter, NSWC Crane is a recognized leader in the areas of special missions, strategic missions, and electronic warfare. Services include acquisition engineering, in-service engineering and technical support for sensors, electronics, electronic warfare and special warfare weapons. NSWC Crane works to apply component and system-level product and industrial engineering to surface sensors, strategic systems, special warfare devices and electronic warfare/information operations systems.

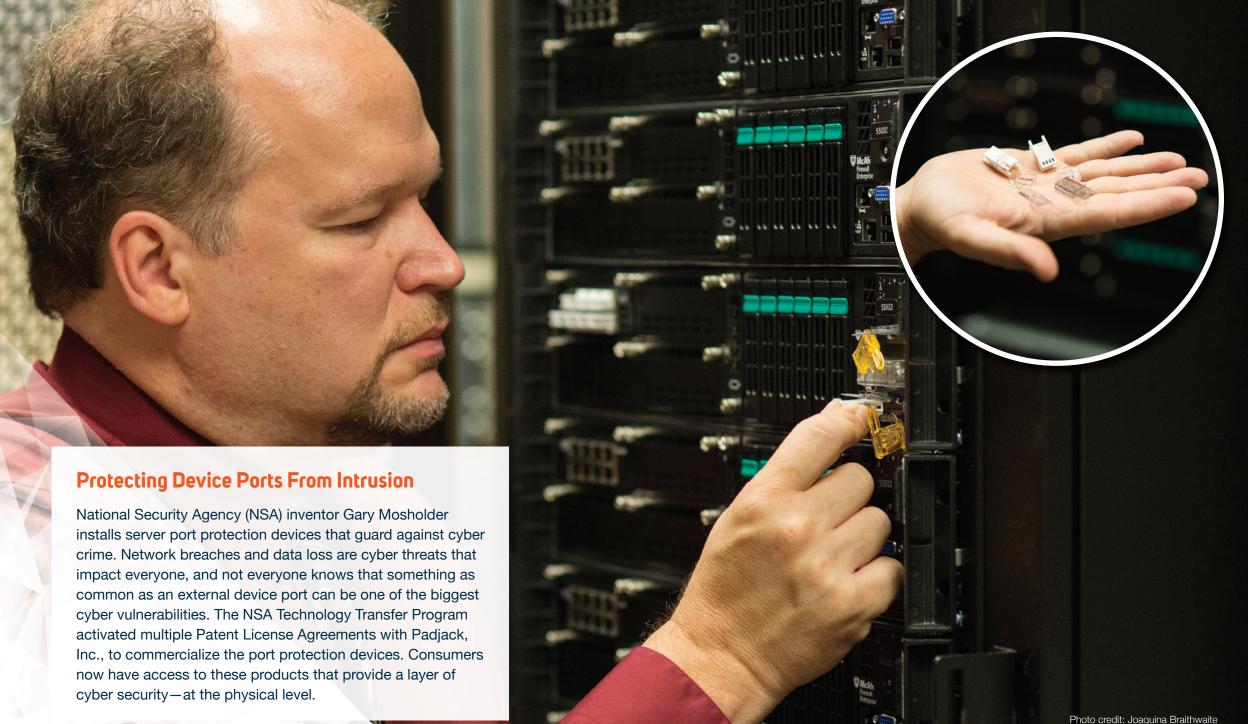
www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Crane

# September





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
August 2017  S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	October 2017  S M T W T F S  1 2 3 4 5 6 7  8 9 10 11 12 13 14  15 16 17 18 19 20 21  22 23 24 25 26 27 28  29 30 31				1	2
3	<b>4</b> Labor Day	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30





#### NSA Technology Transfer Program

NSA's portfolio of patented big data, cyber, internet of things, and mobility technologies can be leveraged by companies of any size to build or enhance their businesses. The NSA Technology Transfer Program, located within the agency's Research Directorate, pursues the widest possible application of agency technology to advance science, accelerate mission solutions, promote technology commercialization, and benefit the U.S. economy.

www.nsa.gov/techtransfer

## October





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	<b>9</b> Columbus Day	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25







market adoption, NREL deploys its deep technical expertise and unmatched breadth of capabilities to drive the transformation of our nation's energy resources and systems.

www.nrel.gov

## November





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
October 2017         S       M       T       W       T       F       S         1       2       3       4       5       6       7         8       9       10       11       12       13       14         15       16       17       18       19       20       21         22       23       24       25       26       27       28         29       30       31	December 2017  S M T W T F S 1 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24/31 25 26 27 28 29 30		1	2	3	4
5	6	7	8	6	10	<b>11</b> Veterans Day
12	13	14	15	16	17	18
19	20	21	22	<b>23</b> Thanksgiving Day	24	25
26	27	28	29	30		







#### National Cancer Institute (NCI)

The Molecular Targets Laboratory at the National Cancer Institute focuses on identification and validation of potential cancer targets through an interdisciplinary, collaborative approach. This includes exploiting NCI's existing chemical and biodiversity repositories, acquiring natural products, and identifying synthetic compounds that may serve as lead compounds for clinical development. The NCI is the federal government's principal agency for cancer research, and supports programs such as HIV research and discovery.

www.cancer.gov

## December





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
November 2017  S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	January 2018  S M T W T F S  1 2 3 4 5 6  7 8 9 10 11 12 13  14 15 16 17 18 19 20  21 22 23 24 25 26 27  28 29 30 31				1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25 Christmas Day	26	27	28	29	30



# January 2018





Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<b>1</b> New Year's Day	2	3	4	5	6
7	8	9	10	11	12	13
14	15  Martin Luther King, Jr. Day	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31		December 2017       S     M     T     W     T     F     S       1     2       3     4     5     6     7     8     9       10     11     12     13     14     15     16       17     18     19     20     21     22     23       24/31     25     26     27     28     29     30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

#### Langmuir Probe ▼

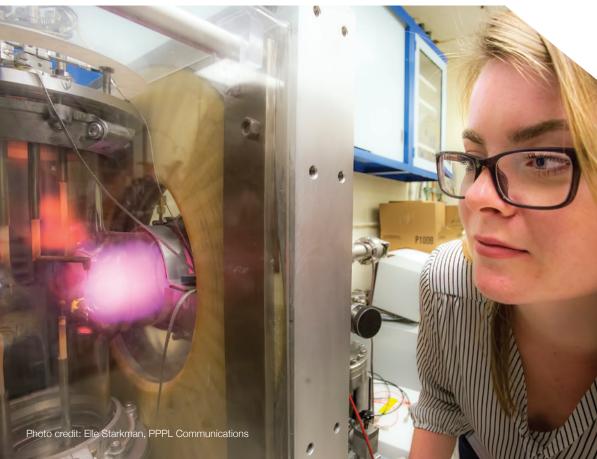
Langmuir probes like this one are basic tools for gauging the state of the plasma that fuels fusion experiments at the Princeton Plasma Physics Laboratory (PPPL). Researchers insert an electrode from the probe into the edge of the plasma to measure the temperature and density of the electrons that swirl inside. Data from the probe, which is named for pioneering plasma physicist and Nobel laureate Irving Langmuir, provides essential information about the electrons and the electric field inside the plasma.

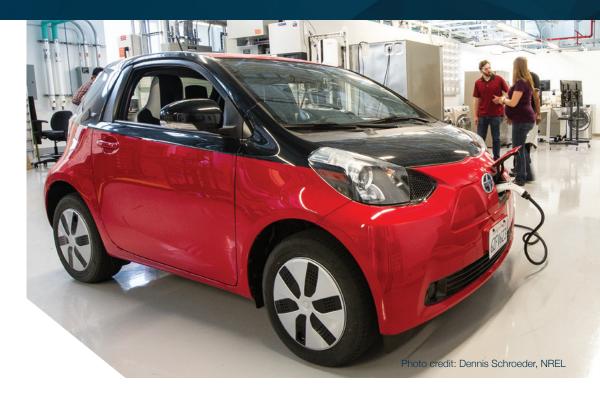


## Smart-Home-in-the-Loop Development ▶

NREL engineers Bethany Sparns and Dheepak Krishnamurthy, and Science Undergraduate Lab Internship intern Paul Vaynshenk work on a Smart-Home-in-the-Loop experiment in the Systems Performance Lab at the Energy Systems Integration Facility. The study connects electric vehicles and smart appliances to a grid in the lab to study the dynamics of how they interact to degrees of "smartness" that allow the devices to potentially communicate with the user, the utility, and even with one another.

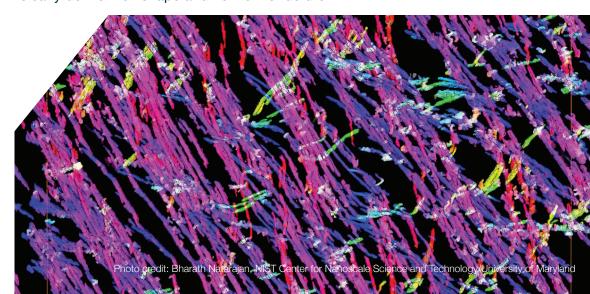






#### Electron Tomography Imaging of Nanotube 3D Structure ▼

Researchers from NIST's Center for Nanoscale Science and Technology (CNST), MIT and the University of Maryland have developed image acquisition and processing techniques to map the 3D structure of carbon nanotubes inside a composite material such as an epoxy resin. This colorized version of carbon nanotube bundles was originally imaged with electron tomography. The colors, derived from an image-processing algorithm, are determined by the sizes of the bundles and clearly define their shape and network structure.



#### ▼ Formulas Effectively Tackle a Growing Number of Toxic Threats

The patented Sandia Decontamination
Technology is a safe, effective, easy-touse disinfectant that handles biological
and chemical threats, including emerging
infectious diseases, clandestine drug labs,
mold, fungi, viruses, and bacteria. It is a twoor three-part system consisting of hydrogen
peroxide with surfactants and activators.
Originally used by the military and first
responders, it has found a growing number
of applications in industrial, institutional,
and military markets. This photo shows the
cleanup of a contaminated home where
methamphetamine was illegally manufactured.



#### **Black Hawk Aircrew Trainer**

The Black Hawk Aircrew Trainer (BAT) is a highly immersive, home-station flight training device, composed of a state-of-the-art collimated visual system, a complete UH-60M cockpit, an instructor-operator station and a vertically expandable container. BAT is designed modularly to maximize flexibility for future growth and includes a vertically expanding container

that is both a

shipping container for the device and an environmentally controlled building that will house the device after it is delivered.



### Documenting Change in Northwest Alaska and Projecting Its Effects on Wildlife Habitat ▼

The effects of climate change in northwest Alaska are already evident: Thawing permafrost is causing lakes to drain, and wildfires are becoming more frequent as forests become drier, leading to shifts in vegetation types. These changes affect the region's wildlife and the people who depend on them for subsistence. A scientist with the Pacific Northwest Research Station is leading the multi-agency Wildlife Potential Habitat Forecasting (WildCast) Project, documenting current conditions with aerial photos and projecting change in habitat for 200 species of mammals and birds over the next century.





## FAA's Full-Scale Aircraft Structural Test Evaluation and Research (FASTER) Facility

The FAA's FASTER is a state-of-the-art laboratory that performs structural testing of current and next-generation airframe fuselage structures. The facility is used in partnership with other organizations, including NASA and Boeing, to address areas of safety and structural integrity. Data from

SUNL AVIATION AND AVIATION AND

the test efforts is used to calibrate and verify methods to evaluate fatigue damage and residual strength. Recent and future efforts focus on assessing bonded repair and emerging metallic structure technologies.





#### **◀ Truck Side Guard**

Truck side guards are safety devices designed to prevent pedestrians and bicyclists from being swept under and killed by a large truck in sideimpact collisions, but they can also reduce aerodynamic drag, eliminating 4 to 7 percent of fuel consumption and greenhouse gas emissions. Drawing on research across the safety and environmental disciplines, Volpe proposed that dual-purpose aerodynamic side guards could replicate the significant fatality reduction documented in the UK (61% for bicyclists, and 20% for pedestrians). Volpe partnered with New York City (pictured) and other fleet agencies nationwide to develop technical

The National Transportation Systems Center

specifications, scope vendors, and test large-scale deployments.

#### NDX-1 Spacesuit ▼

University of North Dakota graduate researcher Travis Nelson, wearing an NDX-1 spacesuit, practices scooping up objects and placing them into containers inside the SwampWorks regolith bin at NASA's Kennedy Space Center in

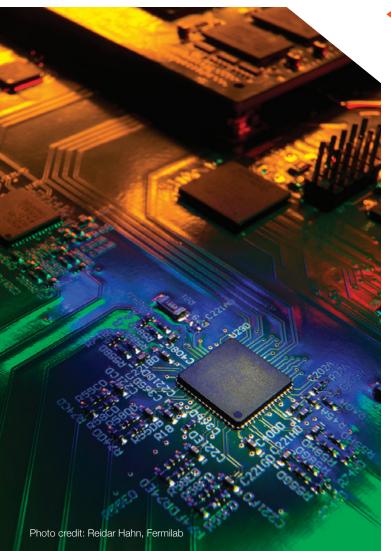
Florida. The university team is analyzing the prototype suit's ability to protect astronauts while allowing them the flexibility to dig samples and perform other tasks in regolith, a fine, powdery soil similar to that found on Mars.



#### Microscopic Analysis

Susan Taylor, Ph.D., research scientist at the U.S. Army Cold Regions Research and Engineering Laboratory, works with the Dartmouth College Electron Microscope Facility to examine extraterrestrial material from comet Wild 2 collected by NASA's Stardust mission. NASA and the National Science Foundation (NSF) are working with the Engineer Research and Development Center (ERDC) to collect extraterrestrial materials (cosmic dust) from the clean Antarctic air. ERDC's Taylor developed the first classification system for micrometeorites (a subset of cosmic dust) and found that particle textures are linked to atmospheric entry heating. She also discovered the first micrometeorites from the asteroid Vesta.





#### ■ Low-Level RF Magnetron Controlled - System on Chip Multi-field Cavity Controller -VXI Board

Fermilab's novel injection-locked magnetron technology provides excellent phase and amplitude control in superconducting radio-frequency (SRF) cavities, the technology of choice to generate powerful particle beams. Fermilab's technology can reduce the cost of RF power for compact SRF accelerators by a factor of 5 while at the same time achieving efficiencies in excess of 80%, in turn yielding substantial size, weight, and cost reductions in both power and cooling systems. This, along with other Fermilab innovations, allows powerful particle accelerators to be small, light, mobile, and simple enough for industrial applications.



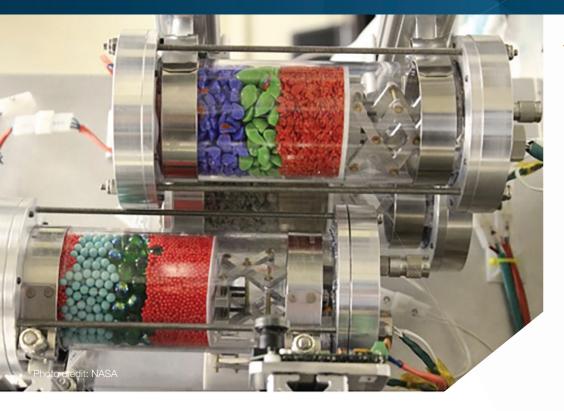


#### Compact Vibration Damper ▼

The compact vibration damper provides superior performance when compared with conventional devices. Because of its design, it is also easily tunable, scalable, and lightweight. Beyond aerospace applications, the system has uses in other structures where reducing vibrations is vital, such as wind turbines, skyscrapers, and smokestacks.







#### **◀Strata-1**

Strata-1 is a study of asteroid regolith onboard the International Space Station (ISS). Strata-1 is comprised of four clear tubes, each filled with a different regolith simulant chosen to include a range of complexity, including glass spheres, a tube of glass fragments, more complex crushed/sieved meteorite material, and a carbonaceous chondrite simulant. Strata-1's goal is to provide answers about how to interact with regolith, such as how to anchor a spacecraft to the surface of an asteroid. Strata-1 is a Class 1E payload

from Johnson Space Center and went from concept to flight-ready in just 10 months.



#### Propagated Influenza Virus for Pre-pandemic Vaccine Research

A Centers for Disease Control (CDC) scientist titrates influenza (flu) virus that has been propagated in chicken eggs with embryos. The propagated virus was used to identify the infectivity levels of a pre-pandemic candidate vaccine virus generated by the team. CDC has active Cooperative Research and Development Agreements (CRADAs), Research Collaboration Agreements (RCAs), and Material Transfer Agreements (MTAs) with several partners for important influenza vaccine research.







Federal Laboratory Consortium for Technology Transfer

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Prepared by the FLC Management Support Office in conjunction with FLC Communications Co-Chairs Sara Langdon and Al Jordan.

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