



1  
00:00:00,789 --> 00:00:05,170

“Here’s some of the stories trending This Week at NASA!”

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00:00:05,170 --> 00:00:10,309

NASA conducted the latest successful test of the Orion spacecraft’s parachute system

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00:00:10,309 --> 00:00:14,769

on March 8 in the skies above the U.S. Army’s Yuma Proving Ground in Arizona.

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00:00:14,769 --> 00:00:20,680

The test was designed to evaluate the parachutes’ performance in an emergency abort situation

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00:00:20,680 --> 00:00:25,599

that would require Orion to be jettisoned from the agency’s Space Launch System rocket

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00:00:25,599 --> 00:00:27,149

during a launch.

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00:00:27,149 --> 00:00:32,390

Even at this relatively low altitude, the parachutes are designed to fully deploy and

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00:00:32,390 --> 00:00:36,630

safely return Orion and its crew to Earth.

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00:00:36,630 --> 00:00:41,680

NASA’s Associate Administrator for Aeronautics Research, Jaiwon Shin, was recently honored

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00:00:41,680 --> 00:00:47,240

by Aviation Week, with its prestigious Innovation Laureate for 2017.

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00:00:47,240 --> 00:00:51,430

Shin has directed the agency's team of aeronautical innovators since 2008.

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00:00:51,430 --> 00:00:57,900

The publication recognized him for his efforts focusing the agency's research around long-range

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00:00:57,900 --> 00:01:03,940

strategies, such as NASA's Environmentally Responsible Aviation, and other programs aimed

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00:01:03,940 --> 00:01:09,670

at meeting the global challenges facing aviation during the years ahead.

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00:01:09,670 --> 00:01:15,560

Members of the media were invited to see Orbital ATK's Cygnus spacecraft March 9, at NASA's

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00:01:15,560 --> 00:01:17,720

Kennedy Space Center, in Florida.

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00:01:17,720 --> 00:01:23,180

The Cygnus, which has been dedicated to late NASA astronaut and U.S. Senator, John Glenn,

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00:01:23,180 --> 00:01:28,480

is targeted to launch from nearby Cape Canaveral Air Force Station on a resupply mission to

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00:01:28,480 --> 00:01:30,680

the International Space Station.

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00:01:30,680 --> 00:01:37,350

The cargo Cygnus will carry includes 38 CubeSats, studies on plant physiology, growing fresh

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00:01:37,350 --> 00:01:43,700

food in space and an investigation to increase the effectiveness and decrease the side effects

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00:01:43,700 --> 00:01:47,200  
of chemotherapy treatment.

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00:01:47,200 --> 00:01:53,050  
On March 8, NASA announced the selection of  
133 proposals from U.S. companies under Phase

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00:01:53,050 --> 00:01:58,480  
II of the agency's Small Business Innovation  
Research (SBIR) program, to develop technologies

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00:01:58,480 --> 00:02:04,939  
for space exploration, aeronautics, science,  
and human exploration and operations.

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00:02:04,939 --> 00:02:11,450  
Phase II projects expand on results of recently  
completed Phase I projects.

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00:02:11,450 --> 00:02:17,090  
NASA's SBIR program is a competitive, awards-based  
program that encourages American small businesses

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00:02:17,090 --> 00:02:23,170  
to engage in federal research, development  
and commercialization.

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00:02:23,170 --> 00:02:27,790  
Engineers at NASA's Jet Propulsion Laboratory  
are preparing the agency's Deep Space Atomic

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00:02:27,790 --> 00:02:34,180  
Clock (DSAC) for a year-long technology demonstration  
mission to validate a miniaturized, ultra-precise,

31

00:02:34,180 --> 00:02:36,920  
mercury-ion atomic clock.

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00:02:36,920 --> 00:02:42,659

It uses precise radio frequency technology to determine position, and is orders of magnitude

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00:02:42,659 --> 00:02:46,489

more stable than today's best navigation clocks.

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00:02:46,489 --> 00:02:51,669

This technology is vital to the success of a range of deep-space exploration missions.

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00:02:51,669 --> 00:02:57,340

The payload is scheduled for launch into Earth orbit in September 2017.

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00:02:57,340 --> 00:03:02,010

In celebration of International Women's Day and Women's History Month, NASA unveiled

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00:03:02,010 --> 00:03:05,409

an educational virtual tour on March 8.

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00:03:05,409 --> 00:03:10,430

The Modern Figures Tour, available via the free Google Expeditions mobile app, takes

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00:03:10,430 --> 00:03:15,830

students inside the careers of seven women at NASA who work in science, technology, engineering

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00:03:15,830 --> 00:03:17,689

and math (STEM) fields.

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00:03:17,689 --> 00:03:22,629

The tour, which builds on NASA's participation with the 20th Century Fox film, "Hidden

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00:03:22,629 --> 00:03:29,870

Figures," is the first NASA-themed career

tour available as part of Google Expeditions.

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00:03:29,870 --> 00:03:34,919  
In recognition of National Engineering Month,  
NASA Aeronautics sponsored a “Night of Flight”

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00:03:34,919 --> 00:03:38,959  
event at Amidon-Bowen Elementary School in  
Washington.

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00:03:38,959 --> 00:03:43,680  
Students were honored as NASA Aero Junior  
Ambassadors for planning and creating STEM

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00:03:43,680 --> 00:03:45,400  
related activities.

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00:03:45,400 --> 00:03:50,769  
The event, which was inspired by the “Museum  
in a Box” series, was designed to help students

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00:03:50,769 --> 00:03:55,939  
understand the physical science of flight,  
and encourage them to pursue STEM related