



1

00:00:00,780 --> 00:00:04,990

"Here's some of the stories trending This Week at NASA!"

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00:00:04,990 --> 00:00:10,160

The much-anticipated March 27 launch to the International Space Station of NASA astronaut

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00:00:10,160 --> 00:00:15,940

Scott Kelly and Expedition 43 crewmates Gennady Padalka and Mikhail Kornienko of the Russian

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00:00:15,940 --> 00:00:21,690

Federal Space Agency, began a one-year odyssey that plays a key role in NASA's journey

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00:00:21,690 --> 00:00:26,620

to Mars. Kelly and Kornienko will spend a year on the orbital laboratory conducting

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00:00:26,620 --> 00:00:32,460

extensive research on the human body to provide valuable data on the physical and mental challenges

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00:00:32,460 --> 00:00:36,769

astronauts may face on future longer-duration missions.

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00:00:36,769 --> 00:00:43,559

NASA announced on March 25 more details about the Asteroid Redirect Mission, or ARM, which

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00:00:43,559 --> 00:00:49,269

in the mid-2020s will test a number of new capabilities needed for future human expeditions

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00:00:49,269 --> 00:00:54,929

to deep space, including to Mars. NASA also announced it has increased the detection of

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00:00:54,929 --> 00:01:01,780
near-Earth Asteroids by 65 percent since launching
its asteroid initiative three years ago. For

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00:01:01,780 --> 00:01:06,899
ARM, a robotic spacecraft will capture a boulder
from the surface of a near-Earth asteroid

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00:01:06,899 --> 00:01:11,920
and move it into a stable orbit around the
moon for exploration by astronauts, all in

14
00:01:11,920 --> 00:01:16,750
support of advancing the nation's journey
to Mars.

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00:01:16,750 --> 00:01:21,430
NASA's Curiosity rover has made the first
detection of nitrogen on the surface of Mars

16
00:01:21,430 --> 00:01:26,890
from release during heating of Martian sediments.
The nitrogen detected – a form of nitric

17
00:01:26,890 --> 00:01:31,789
oxide – could be released from the breakdown
of nitrates during heating. Nitrates are a

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00:01:31,789 --> 00:01:37,420
class of molecules that contain nitrogen in
a form that can be used by living organisms.

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00:01:37,420 --> 00:01:43,590
The discovery adds to the evidence that ancient
Mars was habitable for life.

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00:01:43,590 --> 00:01:48,259
NASA Administrator Charlie Bolden attended
the March 23 White House Science Fair, where

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00:01:48,259 --> 00:01:54,270
approximately 35 student teams showcased projects ranging from breakthrough basic research to

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00:01:54,270 --> 00:01:59,909
new inventions. The annual event, a key part of President Obama's Educate to Innovate

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00:01:59,909 --> 00:02:05,759
campaign, is designed to inspire more students to excel in Science, Technology, Engineering

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00:02:05,759 --> 00:02:11,330
and Math or STEM subjects According to the White House, the most ever female science

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00:02:11,330 --> 00:02:17,170
students – over 100 from more than 30 states, were expected to participate in this year's

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00:02:17,170 --> 00:02:18,170
fair.

27
00:02:18,170 --> 00:02:24,170
An Orion Exploration Flight Test-1 recognition event was held March 25 at NASA headquarters

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00:02:24,170 --> 00:02:29,700
to thank employees for helping with the success of Orion's flight test last December. Similar

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00:02:29,700 --> 00:02:34,739
events are being held at other NASA facilities around the country by the Orion, Space Launch

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00:02:34,739 --> 00:02:39,540
System (SLS) and Ground Systems Development and Operations (GSDO) programs to show gratitude

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00:02:39,540 --> 00:02:44,650

and highlight the progress being made to develop the systems and capabilities needed for future

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00:02:44,650 --> 00:02:47,750

deep space travel.

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00:02:47,750 --> 00:02:52,760

Also on March 25, the team in charge of NASA's Kepler mission was awarded the Smithsonian

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00:02:52,760 --> 00:02:58,430

National Air and Space Museum's 2015 Trophy for Current Achievement -- that institution's

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00:02:58,430 --> 00:03:04,170

highest group award. The trophy honors outstanding endeavors in the fields of aerospace science

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00:03:04,170 --> 00:03:10,000

and technology. Kepler is responsible for history's first detection of Earth-sized planets

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00:03:10,000 --> 00:03:14,990

orbiting other suns in their "habitable zone", and has unveiled a whole new side of

38

00:03:14,990 --> 00:03:20,129

our Milky Way galaxy -- one that is teeming with planets.

39

00:03:20,129 --> 00:03:22,170

And that's what's up this week @NASA ...