



1

00:00:00,940 --> 00:00:05,130

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

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00:00:05,130 --> 00:00:10,309

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

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00:00:10,309 --> 00:00:16,090

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

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00:00:16,090 --> 00:00:21,840

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

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00:00:21,840 --> 00:00:26,770

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

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00:00:26,770 --> 00:00:32,610

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

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00:00:32,610 --> 00:00:36,920

astronauts may face on future longer-duration missions.

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00:00:36,920 --> 00:00:43,719

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

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00:00:43,719 --> 00:00:49,420

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

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00:00:49,420 --> 00:00:55,100

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

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00:00:55,100 --> 00:01:01,940
near-Earth Asteroids by 65 percent since launching
its asteroid initiative three years ago. For

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00:01:01,940 --> 00:01:07,040
ARM, a robotic spacecraft will capture a boulder
from the surface of a near-Earth asteroid

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00:01:07,040 --> 00:01:12,060
and move it into a stable orbit around the
moon for exploration by astronauts, all in

14
00:01:12,060 --> 00:01:16,900
support of advancing the nation's journey
to Mars.

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00:01:16,900 --> 00:01:21,580
NASA's Curiosity rover has made the first
detection of nitrogen on the surface of Mars

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00:01:21,580 --> 00:01:27,040
from release during heating of Martian sediments.
The nitrogen detected – a form of nitric

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00:01:27,040 --> 00:01:31,960
oxide – could be released from the breakdown
of nitrates during heating. Nitrates are a

18
00:01:31,960 --> 00:01:37,570
class of molecules that contain nitrogen in
a form that can be used by living organisms.

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00:01:37,570 --> 00:01:43,740
The discovery adds to the evidence that ancient
Mars was habitable for life.

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00:01:43,740 --> 00:01:48,410
NASA Administrator Charlie Bolden attended
the March 23 White House Science Fair, where

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00:01:48,410 --> 00:01:54,420
approximately 35 student teams showcased projects ranging from breakthrough basic research to

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00:01:54,420 --> 00:02:00,180
new inventions. The annual event, a key part of President Obama's Educate to Innovate

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00:02:00,180 --> 00:02:05,909
campaign, is designed to inspire more students to excel in Science, Technology, Engineering

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00:02:05,909 --> 00:02:11,480
and Math or STEM subjects According to the White House, the most ever female science

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00:02:11,480 --> 00:02:17,330
students – over 100 from more than 30 states, were expected to participate in this year's

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00:02:17,330 --> 00:02:18,330
fair.

27
00:02:18,330 --> 00:02:24,330
An Orion Exploration Flight Test-1 recognition event was held March 25 at NASA headquarters

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00:02:24,330 --> 00:02:29,850
to thank employees for helping with the success of Orion's flight test last December. Similar

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00:02:29,850 --> 00:02:34,890
events are being held at other NASA facilities around the country by the Orion, Space Launch

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00:02:34,890 --> 00:02:39,690
System (SLS) and Ground Systems Development and Operations (GSDO) programs to show gratitude

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00:02:39,690 --> 00:02:44,810

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

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00:02:44,810 --> 00:02:47,900

deep space travel.

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00:02:47,900 --> 00:02:52,900

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

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00:02:52,900 --> 00:02:58,569

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

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00:02:58,569 --> 00:03:04,319

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

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00:03:04,319 --> 00:03:10,150

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

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00:03:10,150 --> 00:03:15,130

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

38

00:03:15,130 --> 00:03:20,280

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

39

00:03:20,280 --> 00:03:22,319

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