
NASA

1
00:00:01,579 --> 00:00:05,779
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,779 --> 00:00:10,630
On June 25, NASA announced that the first
Landing Site/Exploration Zone Workshop for

3
00:00:10,630 --> 00:00:16,810
Human Missions to the Surface of Mars will
take place Oct. 27-30, at the Lunar and Planetary

4
00:00:16,810 --> 00:00:18,640
Institute in Houston.

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00:00:18,640 --> 00:00:22,710
The agency hopes to collect proposals at the
conference about which areas on Mars have

6
00:00:22,710 --> 00:00:28,470
the best scientific and physical characteristics
for humans to safely land, live and work on

7
00:00:28,470 --> 00:00:29,890
the Red Planet.

8
00:00:29,890 --> 00:00:34,870
Once identified, the potential “exploration
zones” could be further imaged by NASA's

9
00:00:34,870 --> 00:00:39,870
Mars Reconnaissance Orbiter and Mars Odyssey
spacecraft, to create better resolution maps

10
00:00:39,870 --> 00:00:42,860
for mission planning.

11
00:00:42,860 --> 00:00:48,409
The Mars Odyssey spacecraft recently completed

its 60,000th orbit of the Red Planet.

12
00:00:48,409 --> 00:00:53,510
Odyssey, the longest-operating spacecraft
ever sent to Mars, has been in Martian orbit

13
00:00:53,510 --> 00:00:55,710
for almost 14 years.

14
00:00:55,710 --> 00:01:00,340
In that time, it has discovered widespread
water ice beneath the planet’s surface;

15
00:01:00,340 --> 00:01:05,420
and the expectation is that Odyssey will continue
to help pave the way for the first humans

16
00:01:05,420 --> 00:01:09,170
to journey to Mars in the 2030s.

17
00:01:09,170 --> 00:01:15,420
NASA helped ring in the Martian New Year recently,
at the invitation of the citizens of Mars,

18
00:01:15,420 --> 00:01:16,420
Pennsylvania.

19
00:01:16,420 --> 00:01:20,670
The celebration of Mar’s New Year, which
happens about every two Earth-years, included

20
00:01:20,670 --> 00:01:26,500
three days of science, technology, engineering,
arts and mathematics or (STEAM) activities

21
00:01:26,500 --> 00:01:31,180
to encourage young people to pursue careers
in these fields of study, which are critical

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00:01:31,180 --> 00:01:34,590
to NASA's journey to Mars.

23
00:01:34,590 --> 00:01:39,230
The June 25 Mars Day on the Hill provided
an opportunity for NASA Administrator Charlie

24
00:01:39,230 --> 00:01:44,210
Bolden and other agency officials to show
members of Congress the progress of NASA’s

25
00:01:44,210 --> 00:01:46,060
journey to Mars.

26
00:01:46,060 --> 00:01:50,340
Astronauts Reid Wiseman and Barry “Butch"
Wilmore – in town to share experiences from

27
00:01:50,340 --> 00:01:54,740
their recent missions aboard the International
Space Station, also were there.

28
00:01:54,740 --> 00:02:00,260
The event featured interactive exhibits highlighting
NASA’s Mars scientific exploration accomplishments

29
00:02:00,260 --> 00:02:05,280
and the cross-cutting technologies being developed
for the journey, that may also be used here

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00:02:05,280 --> 00:02:07,980
on Earth.

31
00:02:07,980 --> 00:02:11,890
Reid Wiseman and Butch Wilmore made several
other appearances while in the Washington

32
00:02:11,890 --> 00:02:12,940
area.

33
00:02:12,940 --> 00:02:18,800
On June 22, Wilmore, who helped make the first
3-D printed part in space, visited the Arlington,

34
00:02:18,800 --> 00:02:23,340
Virginia TechShop, a do-it-yourself workshop
and fabrication studio.

35
00:02:23,340 --> 00:02:26,910
While there, he talked about being a maker
while in space.

36
00:02:26,910 --> 00:02:31,560
The following day, Wiseman shared imagery
and stories from his mission during a presentation

37
00:02:31,560 --> 00:02:33,250
at NASA headquarters.

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00:02:33,250 --> 00:02:39,560
Both astronauts conducted valuable scientific
research while onboard the ISS.

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00:02:39,560 --> 00:02:43,950
At NASA’s Stennis Space Center, testing
continues of the engine that will power the

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00:02:43,950 --> 00:02:50,870
agency’s Space Launch System rocket on human
missions to Mars and other deep space destinations.

41
00:02:50,870 --> 00:02:55,740
The 650 second test was the fourth in the
current series of eight planned test firings

42
00:02:55,740 --> 00:02:58,730
to evaluate the design and functionality of
the engine.

43

00:02:58,730 --> 00:03:05,190
Four RS-25s will be installed on the completed
SLS core stage.

44
00:03:05,190 --> 00:03:11,220
Divers at NASA’s Neutral Buoyancy Lab or
(NBL) in Houston, tested prototype tools designed

45
00:03:11,220 --> 00:03:17,950
by students in the Micro-g Neutral Buoyancy
Experiment Design Teams or (Micro-g NExT)

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00:03:17,950 --> 00:03:18,950
program.

47
00:03:18,950 --> 00:03:23,860
Micro-g NExT challenges college undergrad
students to design, build, and test a tool

48
00:03:23,860 --> 00:03:28,740
or device that addresses a real and current
space exploration problem.

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00:03:28,740 --> 00:03:33,709
The students then oversee the test operations
in the simulated microgravity environment

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00:03:33,709 --> 00:03:36,320
of the NBL.

51
00:03:36,320 --> 00:03:38,290
And that’s what’s up this week @NASA …