1
00:00:00,669 --> 00:00:05,069
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,069 --> 00:00:06,069
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3
00:00:06,069 --> 00:00:10,680
Two long-running NASA missions are providing
new details about ocean bearing moons of Jupiter

4
00:00:10,680 --> 00:00:16,320
and Saturn – further heightening scientific
interest in these and other “ocean worlds”

5
00:00:16,320 --> 00:00:19,110
in our solar system and beyond.

6
00:00:19,110 --> 00:00:25,070
The details – discussed during an April
13 NASA science briefing – include the announcement

7
00:00:25,070 --> 00:00:30,640
by the Cassini mission that a key ingredient
for life has been found in the ocean on Saturn's

8
00:00:30,640 --> 00:00:32,250
moon Enceladus.

9
00:00:32,250 --> 00:00:38,030
Meanwhile, researchers using the Hubble Space
Telescope observed a probable plume erupting

10
00:00:38,030 --> 00:00:43,350
from the surface of Jupiter's moon Europa,
at the same location where Hubble saw evidence

11
00:00:43,350 --> 00:00:45,960
of a plume in 2014.

12
00:00:45,960 --> 00:00:50,780
Researchers say this could be circumstantial
evidence of water erupting from the moon’s

13
00:00:50,780 --> 00:00:51,780
interior.

14
00:00:51,780 --> 00:00:57,889
Hubble's monitoring of plume activity on Europa
and Cassini's long-term investigation of Enceladus

15
00:00:57,889 --> 00:01:03,229
are laying the groundwork for NASA's Europa
Clipper mission, which is being planned for

16
00:01:03,229 --> 00:01:06,619
launch in the 2020s.

17
00:01:06,619 --> 00:01:07,619
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18
00:01:07,619 --> 00:01:09,100
On April 10, the International Space Station’s

19
00:01:09,100 --> 00:01:14,920
Expedition 50 crew, including NASA’s Shane
Kimbrough returned safely to Earth, hours

20
00:01:14,920 --> 00:01:16,829
after leaving the station.

21
00:01:16,829 --> 00:01:22,179
Kimbrough and crewmates Sergey Ryzhikov and
Andrey Borisenko of the Russian space agency,

22
00:01:22,179 --> 00:01:27,170
Roscosmos, landed in Kazakhstan – wrapping

up a 173-day mission.

23
00:01:27,170 --> 00:01:33,030
Expedition 51 Commander Peggy Whitson of NASA
remains on the station, along with her crewmates

24
00:01:33,030 --> 00:01:38,849
Oleg Novitskiy of Roscosmos and Thomas Pesquet
of ESA (European Space Agency).

25
00:01:38,849 --> 00:01:39,849
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26
00:01:39,849 --> 00:01:41,840
Meanwhile, Expedition 51-52, the next crew

27
00:01:41,840 --> 00:01:46,689
headed to the station, is conducting final
pre-launch activities at the Baikonur Cosmodrome

28
00:01:46,689 --> 00:01:47,689
in Kazakhstan.

29
00:01:47,689 --> 00:01:53,450
NASA’s Jack Fischer and Soyuz Commander
Fyodor Yurchikhin of Roscosmos will launch

30
00:01:53,450 --> 00:01:58,259
from Baikonur April 20 for a four and a half
month mission on the space station.

31
00:01:58,259 --> 00:02:04,170
The backup crew – NASA’s Randy Bresnik
and Sergey Ryazanskiy of Roscosmos also are

32
00:02:04,170 --> 00:02:08,110
participating in the pre-launch activities.

33

00:02:08,110 --> 00:02:09,110
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34
00:02:09,110 --> 00:02:10,110
NASA announced the preliminary winners of

35
00:02:10,110 --> 00:02:12,620
its 2017 Student Launch event.

36
00:02:12,620 --> 00:02:17,430
Overall winners will be announced in mid-May
after final calculations have been reviewed

37
00:02:17,430 --> 00:02:19,120
for accuracy.

38
00:02:19,120 --> 00:02:24,940
The event took place April 8 in Toney, Alabama,
near NASA’s Marshall Space Flight Center.

39
00:02:24,940 --> 00:02:30,010
Students demonstrated advanced aerospace and
engineering skills by launching their rockets

40
00:02:30,010 --> 00:02:36,840
to an altitude of one mile, deploying an automated
parachute system and landing the rocket safely

41
00:02:36,840 --> 00:02:38,310
for reuse.

42
00:02:38,310 --> 00:02:44,110
The event aligns with NASA’s major education
goal of encouraging students to pursue degrees

43
00:02:44,110 --> 00:02:50,519
and careers in science, technology, engineering
and mathematics.

44
00:02:50,519 --> 00:02:51,519
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45
00:02:51,519 --> 00:02:53,010
On April 11, a groundbreaking took place at

46
00:02:53,010 --> 00:02:57,831
NASA’s Langley Research Center in Hampton,
Virginia, for Langley’s new Measurement

47
00:02:57,831 --> 00:02:59,629
Systems Laboratory.

48
00:02:59,629 --> 00:03:04,709
State and local officials and community leaders
attended the event – including Virginia

49
00:03:04,709 --> 00:03:12,299
Gov. Terry McAuliffe, U.S. Sen. Mark Warner,
U.S. Rep. Bobby Scott, and Hampton Mayor Donnie

50
00:03:12,299 --> 00:03:13,349
Tuck.

51
00:03:13,349 --> 00:03:20,870
The 175,000-square-foot lab will be a world-class
facility for research and development of new

52
00:03:20,870 --> 00:03:26,190
measurement concepts, technologies, and systems
that will enable NASA to achieve its mission

53
00:03:26,190 --> 00:03:31,030
in space exploration, science, and aeronautics.

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00:03:31,030 --> 00:03:32,030
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55
00:03:32,030 --> 00:03:34,239
On April 11, space fans showed up at the Smithsonian

56
00:03:34,239 --> 00:03:39,239
National Air and Space Museum in Washington
for one of the many Yuri's Night celebrations

57
00:03:39,239 --> 00:03:40,909
around the world.

58
00:03:40,909 --> 00:03:45,010
The events are held each year on or around
April 12.

59
00:03:45,010 --> 00:03:51,540
On April 12, 1961, Russian cosmonaut Yuri
Gagarin became the first human to travel to

60
00:03:51,540 --> 00:03:52,620
space.

61
00:03:52,620 --> 00:03:59,719
On April 12, 1981, NASA astronauts John Young
and Bob Crippen launched aboard space shuttle

62
00:03:59,719 --> 00:04:05,540
Columbia on STS-1 – the two-day mission
was the first in the shuttle program's 30-year

63
00:04:05,540 --> 00:04:06,540
history.

64
00:04:06,540 --> 00:04:07,540
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65
00:04:07,540 --> 00:04:11,239
And that's what's up this week @NASA …

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