



1

00:00:00,750 --> 00:00:04,180

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

2

00:00:04,180 --> 00:00:10,000

Dr. Dava Newman, whose first day on the job as NASA's new Deputy Administrator was May

3

00:00:10,000 --> 00:00:15,349

18, was introduced during a town hall meeting at headquarters the following day.

4

00:00:15,349 --> 00:00:20,220

Newman previously was the Apollo Program Professor of Astronautics at the Massachusetts Institute

5

00:00:20,220 --> 00:00:25,490

of Technology in Cambridge and brings with her valuable experience in engineering, science

6

00:00:25,490 --> 00:00:27,290

and space policy.

7

00:00:27,290 --> 00:00:32,980

Much of her research at MIT focused on critical aspects of human space exploration, and she's

8

00:00:32,980 --> 00:00:37,390

well known in the space community for development of a new, lighter-weight spacesuit design

9

00:00:37,390 --> 00:00:40,379

that gives astronauts more mobility.

10

00:00:40,379 --> 00:00:45,960

The SpaceX Dragon cargo spacecraft left the International Space Station May 21 to make

11

00:00:45,960 --> 00:00:51,530

a splashdown in the Pacific Ocean with more than 3,000 pounds of cargo and important science

12

00:00:51,530 --> 00:00:53,860

samples for researchers on the ground.

13

00:00:53,860 --> 00:00:58,460

Dragon spent almost five weeks at the orbital laboratory, after arriving there on April

14

00:00:58,460 --> 00:01:03,350

17 with more than two tons of supplies for the station crew.

15

00:01:03,350 --> 00:01:08,030

With its three month commissioning or "break-in period" complete, the spacecraft for NASA's

16

00:01:08,030 --> 00:01:12,250

Soil Moisture Active Passive (SMAP) mission has begun science operations.

17

00:01:12,250 --> 00:01:17,460

SMAP was launched Jan. 31 to help us better understand the relationship between Earth's

18

00:01:17,460 --> 00:01:23,360

water, energy and carbon cycles; reduce uncertainties in predicting climate; help improve weather

19

00:01:23,360 --> 00:01:29,790

forecasts; and enhance our ability to monitor and predict natural hazards like floods and

20

00:01:29,790 --> 00:01:30,980

droughts.

21

00:01:30,980 --> 00:01:35,270

NASA has issued a Request for Information (RFI) seeking ideas from American companies

22
00:01:35,270 --> 00:01:40,570
for a spacecraft design that could be used
for both the agency's Asteroid Redirect Mission

23
00:01:40,570 --> 00:01:44,229
(ARM) and a robotic satellite servicing mission
in low-Earth orbit.

24
00:01:44,229 --> 00:01:49,710
In the early-2020s NASA plans to launch the
Asteroid Redirect Mission, which will use

25
00:01:49,710 --> 00:01:55,000
a robotic spacecraft to capture a large boulder
from the surface of a near-Earth asteroid

26
00:01:55,000 --> 00:01:59,950
and move it into a stable orbit around the
moon for exploration by astronauts, all in

27
00:01:59,950 --> 00:02:03,280
support of advancing the nation's journey
to Mars.

28
00:02:03,280 --> 00:02:08,079
NASA also has been studying the "Restore-L"
mission concept, during which a spacecraft

29
00:02:08,079 --> 00:02:13,420
would use dexterous robotic systems to grapple
and refuel a government satellite in low-Earth

30
00:02:13,420 --> 00:02:15,650
orbit.

31
00:02:15,650 --> 00:02:20,099
Teams of college students and the robots they
built took part in this year's NASA Robotic

32
00:02:20,099 --> 00:02:24,680
Mining Competition at the Kennedy Space Center
Visitor Complex to see which machine could

33
00:02:24,680 --> 00:02:28,530
collect the most regolith from a simulated
Martian landscape.

34
00:02:28,530 --> 00:02:33,320
The competition is designed to engage and
retain students in science, technology, engineering

35
00:02:33,320 --> 00:02:38,900
and mathematics, or STEM, fields and foster
innovative ideas and solutions that could

36
00:02:38,900 --> 00:02:43,819
potentially be applied to future NASA missions.

37
00:02:43,819 --> 00:02:49,090
NASA and the National Additive Manufacturing
Innovation Institute, known as America Makes,

38
00:02:49,090 --> 00:02:55,270
have announced a new \$2.25 million competition
to design and build a 3-D printed habitat

39
00:02:55,270 --> 00:02:59,900
for possible use on deep space exploration
missions, including the agency's journey

40
00:02:59,900 --> 00:03:01,209
to Mars.

41
00:03:01,209 --> 00:03:06,250
This competition is part of NASA's Centennial
Challenges and is designed to advance the

42
00:03:06,250 --> 00:03:11,300

additive construction technology needed to
create sustainable housing solutions for Earth

43

00:03:11,300 --> 00:03:13,450

and beyond.

44

00:03:13,450 --> 00:03:15,430

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