



1

00:00:00,459 --> 00:00:03,540

A new lead selected for our human spaceflight efforts ...

2

00:00:03,540 --> 00:00:07,029

The new core capability of our next Mars rover

...

3

00:00:07,029 --> 00:00:13,190

And news about our future VIPER lunar robot ... a few of the stories to tell you about

4

00:00:13,190 --> 00:00:16,590

– This Week at NASA!

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00:00:16,590 --> 00:00:21,489

NASA Administrator Jim Bridenstine selected Commercial Crew Program Manager Kathy Lueders

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00:00:21,489 --> 00:00:26,770

to be the agency's next associate administrator of the Human Exploration and Operations (HEO)

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00:00:26,770 --> 00:00:29,300

Mission Directorate - effective immediately.

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00:00:29,300 --> 00:00:34,970

Since 2014, Lueders has directed NASA's efforts to send astronauts to space on private

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00:00:34,970 --> 00:00:40,219

spacecraft, which culminated in the successful launch of our SpaceX Demo-2 test flight to

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00:00:40,219 --> 00:00:45,410

the International Space Station recently from our Kennedy Space Center in Florida.

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00:00:45,410 --> 00:00:50,320

The Administrator says Lueders gives NASA the “extraordinary experience and passion”

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00:00:50,320 --> 00:00:58,130
needed to land the first woman and next man on the Moon by 2024 with the Artemis program.

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00:00:58,130 --> 00:01:03,840
While the Perseverance rover for our Mars 2020 mission is largely based on the Curiosity

14
00:01:03,840 --> 00:01:09,430
rover, Perseverance has a few improvements for high-priority science goals.

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00:01:09,430 --> 00:01:14,380
For the first time, the rover carries a drill for collecting core samples from Martian rocks

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00:01:14,380 --> 00:01:20,280
and soil, then preserving those samples in tubes for a possible future mission to collect

17
00:01:20,280 --> 00:01:21,930
and return to Earth.

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00:01:21,930 --> 00:01:28,540
The launch window for the Mars 2020 mission runs from July 17 through Aug. 5.

19
00:01:28,540 --> 00:01:33,240
On June 11, we announced the selection of Astrobotic to deliver our new water-hunting

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00:01:33,240 --> 00:01:38,520
VIPER mobile robot to the South Pole of the Moon, as part of NASA’s Commercial Lunar

21
00:01:38,520 --> 00:01:40,740
Payload Services initiative.

22
00:01:40,740 --> 00:01:45,439
As the first resource-mapping mission on the surface of another world, VIPER will help

23
00:01:45,439 --> 00:01:50,780
pave the way for human missions to the Moon as part of our Artemis program.

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00:01:50,780 --> 00:01:57,540
For more information about NASA's VIPER mission, visit: nasa.gov/viper.

25
00:01:57,540 --> 00:02:03,080
Researchers using data from our Cassini mission, which ended in September 2017, found that

26
00:02:03,080 --> 00:02:08,960
Saturn's moon, Titan is drifting away from the planet a hundred times faster than previously

27
00:02:08,960 --> 00:02:12,500
understood — about 4 inches per year.

28
00:02:12,500 --> 00:02:17,040
This new finding may help address questions about when Saturn's rings and system of

29
00:02:17,040 --> 00:02:19,990
more than 80 moons actually formed.

30
00:02:19,990 --> 00:02:27,140
We're making significant progress on our first all-electric X-plane, the X-57 Maxwell.

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00:02:27,140 --> 00:02:32,000
Engineers are completing work toward functional ground testing – including taxi testing

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00:02:32,000 --> 00:02:33,940
and first flight.

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00:02:33,940 --> 00:02:39,780
Tests are also underway on the plane's electric
cruise motors and the future high-aspect ratio

34
00:02:39,780 --> 00:02:43,980
wing that will fly on the aircraft's final
configuration.

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00:02:43,980 --> 00:02:49,140
Lessons learned from this testing are helping
to pave the way for future Federal Aviation

36
00:02:49,140 --> 00:02:53,160
Administration airworthiness standards for
electric aircraft.

37
00:02:53,160 --> 00:02:55,950
That's what's up this week @NASA ...