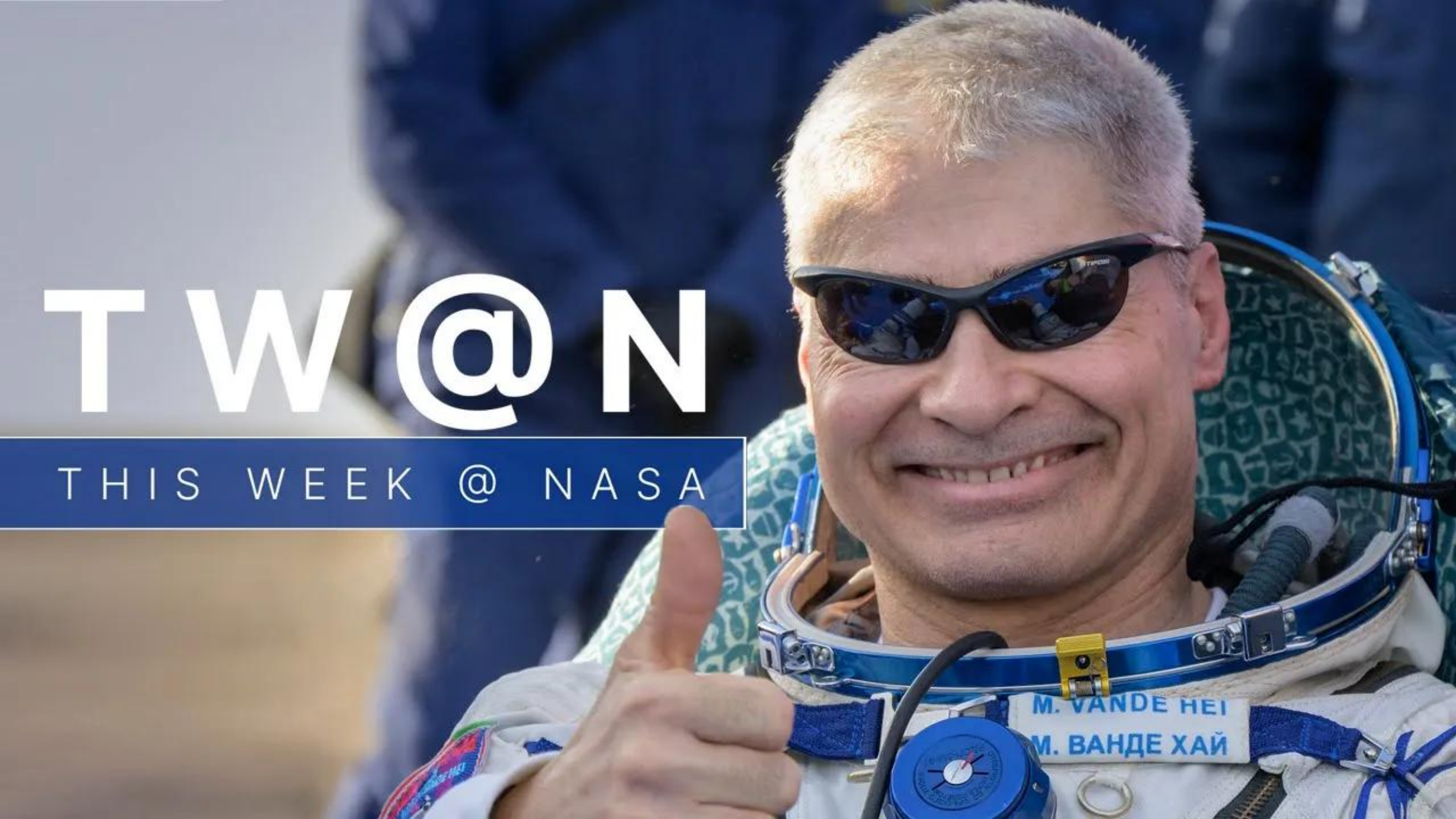

TW@N

THIS WEEK @ NASA

1
00:00:00,200 --> 00:00:04,571
Reflecting on a record-setting spaceflight
… An update on prelaunch activities

2
00:00:04,571 --> 00:00:07,507
for Artemis
I … And launching the first private

3
00:00:07,507 --> 00:00:10,110
astronaut mission
to the International Space Station

4
00:00:10,377 --> 00:00:13,480
… a few of the stories
to tell you about – This Week at NASA!

5
00:00:14,814 --> 00:00:18,151
NASA astronaut Mark Vande
Hei is safely back on Earth

6
00:00:18,318 --> 00:00:22,922
following his record-setting 355-day
mission aboard the International Space

7
00:00:22,922 --> 00:00:27,560
Station – the longest single spaceflight
in history by an American astronaut.

8
00:00:27,927 --> 00:00:30,930
Our Johnson Space Center
hosted a virtual news conference

9
00:00:30,930 --> 00:00:34,634
on April 5, during
which Vande Hei reflected on his mission.

10
00:00:35,068 --> 00:00:37,270
It was not about any record for me at all.

11

00:00:37,270 --> 00:00:37,771
"It was not about any record for me
at all.

12
00:00:37,771 --> 00:00:42,142
It (was) just the opportunity
to work with a really good sense

13
00:00:42,142 --> 00:00:45,512
of purpose in a job
where we get to help out all of humanity.

14
00:00:45,912 --> 00:00:49,983
The number of days was not that important
to me, and I think that helped me react

15
00:00:50,216 --> 00:00:53,553
to whether it was going to –
to be comfortable with it being either

16
00:00:53,553 --> 00:00:56,022
a shorter mission or a longer mission,
like it turned out to be."

17
00:00:56,523 --> 00:00:59,159
Data from Vande Hei's
mission will help us prepare

18
00:00:59,159 --> 00:01:02,662
for the effects of long-duration
spaceflight on the human body,

19
00:01:02,896 --> 00:01:06,499
as we continue our plans
to return astronauts to the Moon

20
00:01:06,499 --> 00:01:11,237
under the Artemis program, in preparation
for eventual human missions to Mars.

21

00:01:12,939 --> 00:01:16,109
As of April 5, teams at our Kennedy
Space Center

22
00:01:16,142 --> 00:01:20,447
were preparing for the next attempt
at the Artemis I wet dress rehearsal test

23
00:01:20,580 --> 00:01:25,218
with our Space Launch System
rocket and Orion spacecraft, pending range

24
00:01:25,218 --> 00:01:29,289
availability and restoration
of propellants and gases during the test.

25
00:01:29,823 --> 00:01:34,294
Engineers did accomplish several test
objectives during two previous test runs

26
00:01:34,561 --> 00:01:38,131
that will help prepare teams
and the integrated systems for launch.

27
00:01:38,698 --> 00:01:40,266
This wet dress rehearsal marks

28
00:01:40,266 --> 00:01:44,337
the first use of new systems at Kennedy's
Launch Complex 39B

29
00:01:44,571 --> 00:01:48,775
and is the last major test
before the uncrewed Artemis I launch.

30
00:01:50,009 --> 00:01:54,080
On April
8, the crew of Axiom Mission 1 or Ax-1,

31
00:01:54,080 --> 00:01:57,450

the first\hprivate astronaut mission\hto
the International Space Station,

32
00:01:57,750 --> 00:02:02,222
lifted off aboard a SpaceX Dragon
spacecraft from our Kennedy Space Center.

33
00:02:02,789 --> 00:02:07,160
During the 10-day mission, the Ax-1 crew
will spend eight days on the space

34
00:02:07,160 --> 00:02:11,598
station, conducting scientific research,
outreach, and commercial activities.

35
00:02:12,232 --> 00:02:16,503
The mission represents both a culmination
of NASA’s efforts to foster

36
00:02:16,503 --> 00:02:21,141
a commercial market in low-Earth orbit
and a beginning of a new era of space

37
00:02:21,141 --> 00:02:25,278
exploration that enables more people
to fly on more kinds of missions.

38
00:02:26,779 --> 00:02:32,152
[Sound of rocket firing]

39
00:02:32,185 --> 00:02:34,854
Northrop
Grumman and Lockheed Martin engineers

40
00:02:34,888 --> 00:02:39,526
recently conducted a final hot-fire test
in Promontory, Utah of the abort

41
00:02:39,526 --> 00:02:43,296
motor built for the launch

abort system on NASA’s Orion spacecraft,

42
00:02:43,563 --> 00:02:47,333
qualifying the system for missions
with crew beginning with Artemis II.

43
00:02:47,967 --> 00:02:51,371
In the event of an emergency
on the launch pad or during ascent,

44
00:02:51,604 --> 00:02:55,175
the launch abort system
is designed to safely lift Orion

45
00:02:55,175 --> 00:02:57,510
and its crew away from the launch vehicle.

46
00:02:59,078 --> 00:03:02,115
NASA was well represented at the Space
Foundation’s

47
00:03:02,148 --> 00:03:07,153
37th Space Symposium,
April 5-7 in Colorado Springs, Colorado.

48
00:03:07,687 --> 00:03:10,023
Our Deputy Administrator Pam Melroy

49
00:03:10,023 --> 00:03:13,293
gave a speech
highlighting our Moon to Mars strategy.

50
00:03:13,760 --> 00:03:17,263
There was also a panel discussion
about our Artemis program

51
00:03:17,263 --> 00:03:20,733
working with industry partners
to help build the space economy.

52
00:03:21,234 --> 00:03:25,205
Meanwhile, the team for our OSIRIS-REx
asteroid sample return

53
00:03:25,205 --> 00:03:28,241
mission received the 2022 John L.

54
00:03:28,241 --> 00:03:32,579
"Jack" Swigert, Jr., Award
for Space Exploration in recognition

55
00:03:32,579 --> 00:03:35,882
of the mission's extraordinary
accomplishments in space exploration,

56
00:03:36,115 --> 00:03:38,651
and discoveries made at asteroid Bennu.

57
00:03:39,018 --> 00:03:42,555
That’s what’s up this week
@NASA … For more on these and other