
TW@N
THIS WEEK @ NASA

1
00:00:00,480 --> 00:00:02,740
The next commercial crew mission to the space
station …

2
00:00:02,740 --> 00:00:05,330
An historic milestone on Mars …

3
00:00:05,330 --> 00:00:10,129
And a hearing to confirm NASA’s next administrator
… a few of the stories to tell you about

4
00:00:10,129 --> 00:00:15,119
– This Week at NASA!

5
00:00:15,119 --> 00:00:20,179
On April 23, NASA’s SpaceX Crew-2 mission
to the International Space Station launched

6
00:00:20,179 --> 00:00:23,349
from our Kennedy Space Center in Florida.

7
00:00:23,349 --> 00:00:25,960
“And liftoff …”

8
00:00:25,960 --> 00:00:30,859
The mission is the second crew rotation flight
of SpaceX’s Crew Dragon spacecraft and the

9
00:00:30,859 --> 00:00:36,110
first with two international partners. The
next day, the Crew-2 astronauts – our Shane

10
00:00:36,110 --> 00:00:42,440
Kimbrough and Megan McArthur, as well as Japan
Aerospace Exploration Agency astronaut■Akihiko■Hoshide■and

11
00:00:42,440 --> 00:00:47,970
Thomas■Pesquet of the European Space Agency
– safely docked to the space station. They

12
00:00:47,970 --> 00:00:54,149
are scheduled to spend six months conducting
science and research aboard the orbital outpost.

13
00:00:54,149 --> 00:00:58,840
On April 19, our Ingenuity Mars Helicopter
made history on the Red Planet.

14
00:00:58,840 --> 00:01:05,250
“Altimeter data … confirmed that Ingenuity
has performed its’ first flight – the

15
00:01:05,250 --> 00:01:10,650
first flight of a powered aircraft on another
planet.”

16
00:01:10,650 --> 00:01:15,090
The first powered, controlled flight on another
planet by an aircraft happened in an area

17
00:01:15,090 --> 00:01:20,760
on Mars now known as Wright Brothers Field,
so named to recognize the historic connection

18
00:01:20,760 --> 00:01:25,630
of Ingenuity’s flight to the Wright brothers’
first flight on Earth. Ingenuity rose to an

19
00:01:25,630 --> 00:01:31,110
altitude of 10 feet, maintained a stable hover
for 30 seconds, and descended back down to

20
00:01:31,110 --> 00:01:33,310
the Martian surface for a safe touch down.

21
00:01:33,310 --> 00:01:37,450
“We have done it! This is the first time
I’ve been able to say, ‘We’ve done it.’

22
00:01:37,450 --> 00:01:43,130
So, beyond this first flight, over the next
coming days we have up to four flights planned,

23
00:01:43,130 --> 00:01:49,070
and increasingly difficult flights, challenging
flights. And we are going to continually push

24
00:01:49,070 --> 00:01:51,210
all the way to the limit of this rotorcraft."

25
00:01:51,210 --> 00:01:56,890
Ingenuity successfully completed its second
Mars flight on April 22, during which it climbed

26
00:01:56,890 --> 00:02:02,800
to 16 feet, moved sideways about 7 feet, made
a few additional maneuvers, then headed back

27
00:02:02,800 --> 00:02:05,390
to the center of the airfield to land.

28
00:02:05,390 --> 00:02:11,709
Meanwhile, a first for our Perseverance Mars
rover on April 20. A toaster-size experimental

29
00:02:11,709 --> 00:02:17,359
instrument aboard the rover called, the Mars
Oxygen In-Situ Resource Utilization Experiment

30
00:02:17,359 --> 00:02:23,090
or MOXIE, was used to convert some of the
Red Planet's thin, carbon dioxide-rich atmosphere

31
00:02:23,090 --> 00:02:28,609
into oxygen. The MOXIE technology could lead
to systems capable of isolating and storing

32
00:02:28,609 --> 00:02:34,230

oxygen on Mars to power rocket launches from
the Red Planet, and possibly provide breathable

33
00:02:34,230 --> 00:02:38,209
air for astronauts on future surface missions
to Mars.

34
00:02:38,209 --> 00:02:43,640
On April 21, former U.S. Senator Bill Nelson,
the president’s nominee to be the next NASA

35
00:02:43,640 --> 00:02:49,170
administrator, appeared before the Senate
Committee on Commerce, Science, and Transportation

36
00:02:49,170 --> 00:02:51,689
during a confirmation hearing on Capitol Hill.

37
00:02:51,689 --> 00:03:00,069
“If you ask me, ‘What is my vision for
the future of NASA?’ It is to continue for

38
00:03:00,069 --> 00:03:13,530
us to explore the heavens with humans and
with machines. And there is a lot of excitement.”

39
00:03:13,530 --> 00:03:18,670
If confirmed, Nelson would become NASA’s
14th administrator. Nelson flew aboard the

40
00:03:18,670 --> 00:03:25,389
space shuttle Columbia as a payload specialist
on the STS-61C mission in 1986.

41
00:03:25,389 --> 00:03:31,790
On April 22, Earth Day was all about connections
– to our home planet and to each other.

42
00:03:31,790 --> 00:03:38,219
Powered by the hashtag #ConnectedByEarth,

our Earth Day Virtual Event, April 21-24,

43
00:03:38,219 --> 00:03:43,719
celebrated Earth and the planet’s more than
7 billion people of diverse backgrounds and

44
00:03:43,719 --> 00:03:49,609
experiences, who all share a connection. The
free, online event included live panel discussions

45
00:03:49,609 --> 00:03:55,379
and chats with NASA Earth science experts,
downloadable content, such as coloring pages,

46
00:03:55,379 --> 00:03:58,189
activity sheets, eBooks, posters and more.