1
00:00:00,170 --> 00:00:03,950
A pair of power plays aboard the space station
…

2
00:00:03,950 --> 00:00:07,130
Checking out progress of our Commercial Crew
Program …

3
00:00:07,130 --> 00:00:12,920
And studying the frontier of space … a few
of the stories to tell you about – This

4
00:00:12,920 --> 00:00:15,290
Week at NASA!

5
00:00:15,290 --> 00:00:19,770
Outside the International Space Station, our
Christina Koch and Andrew Morgan conducted

6
00:00:19,770 --> 00:00:24,990
the first two spacewalks of what Koch refers
to as, “the great @Space_Station battery

7
00:00:24,990 --> 00:00:30,810
swap” – a series of five expected spacewalks
this month to upgrade the station’s power

8
00:00:30,810 --> 00:00:36,600
system, by replacing nickel-hydrogen batteries
with new, more powerful lithium-ion batteries.

9
00:00:36,600 --> 00:00:42,359
The pair kicked off the series with a seven-hour
and one minute spacewalk on Oct. 6, followed

10
00:00:42,359 --> 00:00:45,260
by the second outing five days later.

11
00:00:45,260 --> 00:00:50,179

The third spacewalk in the great space station
battery swap series is scheduled for Oct.

12
00:00:50,179 --> 00:00:52,859
16.

13
00:00:52,859 --> 00:00:57,629
On Oct. 10, our Administrator Jim Bridenstine,
visited the Hawthorne, California headquarters

14
00:00:57,629 --> 00:01:00,249
of our commercial partner, SpaceX.

15
00:01:00,249 --> 00:01:04,339
While there, they saw progress the company
is making to fly astronauts to and from the

16
00:01:04,339 --> 00:01:08,969
space station aboard its Crew Dragon spacecraft,
as part of the agency's Commercial Crew

17
00:01:08,969 --> 00:01:10,200
Program.

18
00:01:10,200 --> 00:01:15,119
This will help return the ability to fly American
astronauts on American spacecraft from American

19
00:01:15,119 --> 00:01:19,720
soil – an important step toward sending
the first woman and the next man to the Moon

20
00:01:19,720 --> 00:01:23,420
by 2024, as part of our Artemis program.

21
00:01:23,420 --> 00:01:28,939
Meanwhile, Bridenstine, Deputy Administrator
Jim Morhard, Associate Administrator for Science

22

00:01:28,939 --> 00:01:35,060
Thomas Zurbuchen and James Webb Space Telescope
Program Director Greg Robinson visited Northrop

23
00:01:35,060 --> 00:01:40,460
Grumman Aerospace Systems in California, where
the fully assembled Webb Telescope is undergoing

24
00:01:40,460 --> 00:01:45,450
testing, prior to its eventual mission to
seek out the first galaxies that formed in

25
00:01:45,450 --> 00:01:47,249
the early universe.

26
00:01:47,249 --> 00:01:49,670
“Pegasus away.”

27
00:01:49,670 --> 00:01:55,619
On Oct. 10 – in the skies over the Atlantic
Ocean, we air-launched the Ionospheric Connection

28
00:01:55,619 --> 00:02:00,880
Explorer, or ICON mission aboard a Northrop
Grumman Pegasus XL rocket.

29
00:02:00,880 --> 00:02:05,920
ICON will study the dynamic region of our
upper atmosphere, where terrestrial and space

30
00:02:05,920 --> 00:02:08,920
weather meet, known as the ionosphere.

31
00:02:08,920 --> 00:02:13,620
The mission could help us better understand
the physical processes at play in the ionosphere

32
00:02:13,620 --> 00:02:18,349
that are potentially detrimental to radio
communications, satellites and the physical

33
00:02:18,349 --> 00:02:21,740
health of astronauts.

34
00:02:21,740 --> 00:02:27,500
The first all-electric configuration of our
X-57 Maxwell aircraft has been delivered to

35
00:02:27,500 --> 00:02:33,050
our Armstrong Flight Research Center in Edwards,
California, for engineers to begin ground,

36
00:02:33,050 --> 00:02:35,870
taxi and eventually, flight tests.

37
00:02:35,870 --> 00:02:41,720
The X-57 is our first all-electric experimental
aircraft, or X-plane, and the first crewed

38
00:02:41,720 --> 00:02:43,670
X-plane in two decades.

39
00:02:43,670 --> 00:02:50,849
A goal of the X-57 project is to further advance
the design and airworthiness process for using

40
00:02:50,849 --> 00:02:56,010
distributed electric propulsion technology
in general aviation aircraft – which has

41
00:02:56,010 --> 00:03:02,599
the potential to increase efficiency while
decreasing emissions, and noise.

42
00:03:02,599 --> 00:03:09,750
Registration is open for our 2020 Human Exploration
Rover Challenge, set for April 17-18, near

43
00:03:09,750 --> 00:03:13,070

our Marshall Space Flight Center in Huntsville, Alabama.

44
00:03:13,070 --> 00:03:18,049
The annual event is open to student teams from high schools, colleges and universities

45
00:03:18,049 --> 00:03:24,160
around the world to design, engineer and test a human-powered rover, on a course simulating

46
00:03:24,160 --> 00:03:28,760
terrain found on our Moon, Mars, and other planetary bodies.

47
00:03:28,760 --> 00:03:33,959
It is one of several challenges we use to encourage students to pursue degrees and careers

48
00:03:33,959 --> 00:03:38,560
in science, technology, engineering, and math related fields.

49
00:03:38,560 --> 00:03:40,810
For more details go to nasa.gov/roverchallenge.

50
00:03:40,810 --> 00:03:46,580
That’s what’s up this week @NASA …