TW@N

THIS WEEK @ NASA

1
00:00:00,066 --> 00:00:02,969
Artemis systems are ready to fly
astronauts …

2
00:00:02,969 --> 00:00:06,039
A hot fire test of an Artemis rocket engine …

3
00:00:06,039 --> 00:00:09,876
And educating
and inspiring the Artemis generation …

4
00:00:09,876 --> 00:00:13,446
a few of the stories
to tell you about – This Week at NASA!

5
00:00:14,414 --> 00:00:16,016
After extensively reviewing

6
00:00:16,016 --> 00:00:20,620
data since last year's successful
uncrewed Artemis I flight test around

7
00:00:20,620 --> 00:00:24,491
the Moon and back, NASA
has confirmed initial observations

8
00:00:24,491 --> 00:00:28,428
that the agency's Space
Launch System rocket, Orion spacecraft,

9
00:00:28,428 --> 00:00:33,333
and ground systems are ready
to fly astronauts on missions to the Moon.

10
00:00:33,333 --> 00:00:36,936
The agency plans to do
just that on Artemis II –

11
00:00:36,936 --> 00:00:40,874

by sending an astronaut crew
around the Moon and back.

12
00:00:41,241 --> 00:00:44,911
[Rocket engine starting]

13
00:00:44,911 --> 00:00:48,114
On March 8, engineers at our Stennis Space Center

14
00:00:48,114 --> 00:00:52,252
conducted this year's third
hot fire test in the current test series

15
00:00:52,252 --> 00:00:56,256
to certify the redesigned
RS-25 rocket engines.

16
00:00:56,256 --> 00:01:00,060
Four of the engines will help
power our Space Launch System rocket

17
00:01:00,060 --> 00:01:02,929
on future Artemis
missions to the Moon.

18
00:01:03,630 --> 00:01:05,632
Second Gentleman Douglas Emhoff,

19
00:01:05,632 --> 00:01:09,469
NASA astronaut Yvonne
Cagle, and NASA Ames center

20
00:01:09,469 --> 00:01:14,741
director Eugene Tu joined students
and their families at an Oakland, California

21
00:01:14,741 --> 00:01:18,244
educational event,
hosted in honor of Women's History Month.

22
00:01:18,244 --> 00:01:22,082
The event featured
hands-on STEM activities, and NASA items

23
00:01:22,082 --> 00:01:25,919
to inspire the students
to learn about our Artemis Program,

24
00:01:25,919 --> 00:01:29,923
which will land the first woman
and person of color on the Moon.

25
00:01:30,690 --> 00:01:33,893
NASA’s Imaging X-ray Polarimetry Explorer,

26
00:01:33,893 --> 00:01:36,396
or IXPE captured the light blue color

27
00:01:36,396 --> 00:01:41,501
in this new image of a pulsar wind nebula
in the constellation Vela.

28
00:01:41,501 --> 00:01:46,473
The light blue represents the first-ever
X-ray polarization data for Vela.

29
00:01:46,473 --> 00:01:49,809
The pulsar itself is near
the center of the image.

30
00:01:49,809 --> 00:01:53,046
Measuring polarization
could improve our understanding

31
00:01:53,046 --> 00:01:58,751
of how cosmic objects like pulsars
accelerate particles to high speeds.