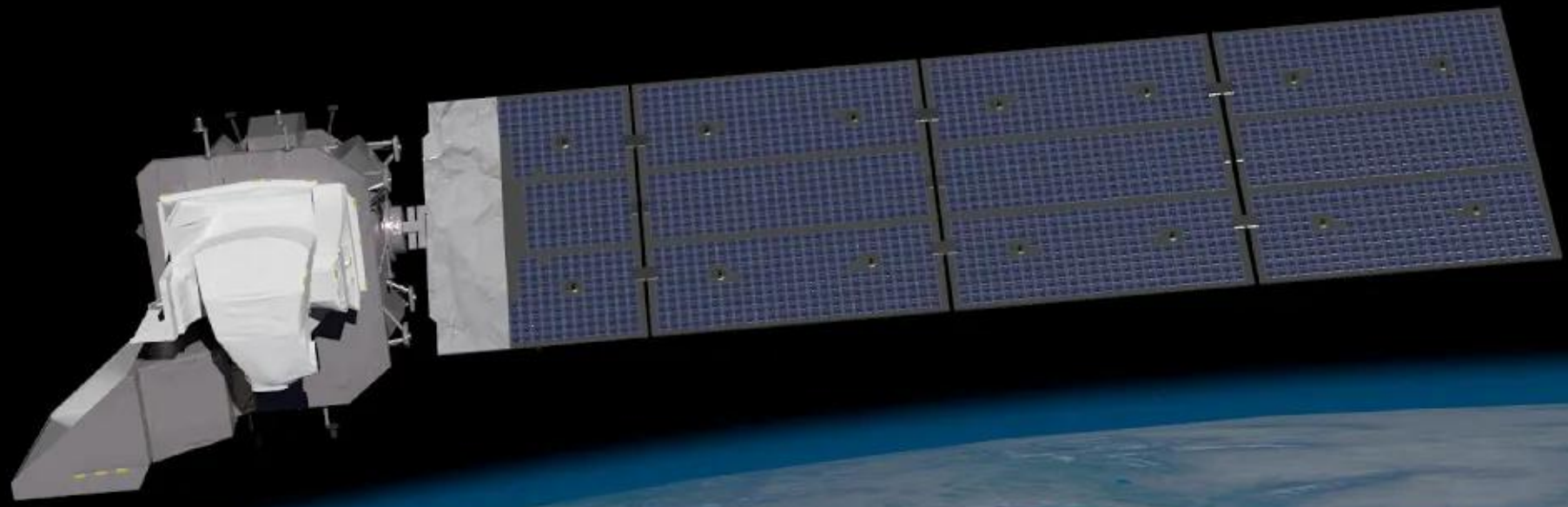

TW@N

THIS WEEK @ NASA

1
00:00:00,320 --> 00:00:02,960
Highlighting an upcoming Earth-observing mission
…

2
00:00:02,960 --> 00:00:06,180
The science on the next resupply mission to
the space station …

3
00:00:06,180 --> 00:00:11,639
And testing a new material to help future
spacecraft land on distant worlds … a few

4
00:00:11,639 --> 00:00:14,849
of the stories to tell you about – This
Week at NASA!

5
00:00:14,849 --> 00:00:18,789
We launched a new interactive website highlighting
Landsat 9.

6
00:00:18,789 --> 00:00:24,550
The joint NASA and U.S. Geological Survey
satellite mission is targeted for launch Sept.

7
00:00:24,550 --> 00:00:28,460
16 from California’s Vandenberg Space Force
Base.

8
00:00:28,460 --> 00:00:33,860
Landsat 9 will continue the program's critical
role in monitoring, understanding, and managing

9
00:00:33,860 --> 00:00:40,110
land resources – such as agricultural crops,
water, and forests – needed to sustain human

10
00:00:40,110 --> 00:00:41,110
life.

11

00:00:41,110 --> 00:00:45,149
For more details, visit nasa.gov/landsat9.

12
00:00:45,149 --> 00:00:50,570
The next SpaceX resupply mission to the International
Space Station will carry a variety of NASA

13
00:00:50,570 --> 00:00:56,620
science investigations, including a study
on preventing and treating bone density loss,

14
00:00:56,620 --> 00:01:02,880
an investigation aimed at detecting and mitigating
vision disorders, and a new robotic arm demonstration

15
00:01:02,880 --> 00:01:07,640
that has potential uses on Earth, including
for disaster relief.

16
00:01:07,640 --> 00:01:13,380
The mission is currently targeted for launch
Aug. 28 from our Kennedy Space Center in Florida.

17
00:01:13,380 --> 00:01:18,479
The team working on the "umbrella-like" Adaptable,
Deployable, Entry and Placement Technology

18
00:01:18,479 --> 00:01:24,200
or ADEPT heat shield design to deliver science
payloads on future missions to Mars and beyond

19
00:01:24,200 --> 00:01:27,829
is testing out a new material called Spiderweave.

20
00:01:27,829 --> 00:01:32,210
It is a woven fabric they think will improve
the integrity of the heat shield and make

21
00:01:32,210 --> 00:01:38,350
it safer for larger vehicles to safely pass

through the atmospheres of more distant locations.

22
00:01:38,350 --> 00:01:43,649
On Aug. 19, we observed the 100th birthday
of late Star Trek creator Gene Roddenberry

23
00:01:43,649 --> 00:01:49,049
with a panel discussion about the ground-breaking
show's legacy of inspiration, hope, and

24
00:01:49,049 --> 00:01:50,049
diversity.

25
00:01:50,049 --> 00:01:54,780
His son, Rod Rodenberry moderated the panel,
which included Star Trek actor, and activist

26
00:01:54,780 --> 00:01:59,140
George Takei, as well as members of NASA's
diverse workforce.

27
00:01:59,140 --> 00:02:04,000
Opening remarks for the event were provided
by NASA Administrator Bill Nelson.

28
00:02:04,000 --> 00:02:09,160
It also featured a 1976 recording in which
Gene Roddenberry talked about the impact he

29
00:02:09,160 --> 00:02:12,630
hoped the show would have on diversity and
inclusion.

30
00:02:12,630 --> 00:02:18,580
"The whole show was an attempt to say that
humanity will reach maturity and wisdom on

31
00:02:18,580 --> 00:02:24,830
the day that it begins, not just to tolerate,
but to take a special delight in differences

32
00:02:24,830 --> 00:02:27,970
in ideas and differences in life forms.”

33
00:02:27,970 --> 00:02:32,500
We transmitted Roddenberry’s recorded remarks
into space through the agency’s Deep Space

34
00:02:32,500 --> 00:02:35,670
Network as the panel discussion was happening.

35
00:02:35,670 --> 00:02:40,520
Astronomers have spotted a group of young
stars and star-forming gas clouds sticking

36
00:02:40,520 --> 00:02:46,440
out of one of our Milky Way galaxy’s spiral
arms like a splinter from a piece of lumber.

37
00:02:46,440 --> 00:02:51,670
This previously unrecognized feature of the
galaxy’s Sagittarius Arm stretches some

38
00:02:51,670 --> 00:02:57,200
3,000 light-years and was found with help
from NASA’s Spitzer Space Telescopeprior

39
00:02:57,200 --> 00:03:00,670
to its retirement in January 2020.

40
00:03:00,670 --> 00:03:06,910
We invited you to join us in celebrating National
Aviation Day on Aug. 19 by using the hashtag

41
00:03:06,910 --> 00:03:10,760
#NationalAviationDay to share your celebrations
online.

42
00:03:10,760 --> 00:03:16,230

The annual observance also falls on the birthday
of Orville Wright, the very first pilot of

43
00:03:16,230 --> 00:03:17,230
an airplane.

44
00:03:17,230 --> 00:03:23,210
Every U.S. aircraft and air traffic control
facility uses NASA-developed technology.

45
00:03:23,210 --> 00:03:27,090
Learn more about our groundbreaking aeronautics
research at nasa.gov/flight.