



1

00:00:00,690 --> 00:00:05,150

“Here’s some of the stories trending This Week at NASA!”

2

00:00:05,150 --> 00:00:11,419

Our Langley Research Center officially celebrated its 100th anniversary on July 17.

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00:00:11,419 --> 00:00:16,139

Groundbreaking took place on that date in 1917, for what is now known as Building 587

4

00:00:16,139 --> 00:00:22,680

– the first aeronautical research laboratory erected in 1918 for NASA’s predecessor,

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00:00:22,680 --> 00:00:25,660

the National Advisory Committee for Aeronautics (NACA).

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00:00:25,660 --> 00:00:29,700

The establishment of Langley – NASA’s first field center – marked the start of

7

00:00:29,700 --> 00:00:36,059

our quest to achieve aerospace excellence through the scientific study of flight.

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00:00:36,059 --> 00:00:40,420

The sixth annual International Space Station Research & Development Conference took place

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00:00:40,420 --> 00:00:44,059

July 17-20 in Washington, D.C.

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00:00:44,059 --> 00:00:49,130

Scientists, researchers and leaders in the aerospace industry were in attendance for

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00:00:49,130 --> 00:00:54,260

an in-depth conversation about the Space Station as a catalyst for discovery.

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00:00:54,260 --> 00:00:59,879

Keynote speakers included our Acting Administrator Robert Lightfoot, and astronaut Kate Rubins,

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00:00:59,879 --> 00:01:07,980

who discussed her groundbreaking work sequencing DNA in space aboard the space station in 2016.

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00:01:07,980 --> 00:01:13,800

Pre-flight training continues for Expedition 52-53 – the next crew headed to the station.

15

00:01:13,800 --> 00:01:19,460

Our astronaut Randy Bresnik, Sergey Ryazanskiy of Roscosmos and Paolo Nespoli of the European

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00:01:19,460 --> 00:01:25,950

Space Agency participated in traditional ceremonies July 16 in Star City, Russia, before heading

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00:01:25,950 --> 00:01:29,830

to Kazakhstan with the backup crew to continue training.

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00:01:29,830 --> 00:01:39,260

Bresnik, Ryazanskiy, and Nespoli are scheduled to launch to the station on July 28.

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00:01:39,260 --> 00:01:41,700

That whistling sound

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00:01:41,700 --> 00:01:42,700

And this one ...

21

00:01:42,700 --> 00:01:48,700

... are examples of noises electrons and other

charged particles make when tossed around

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00:01:48,700 --> 00:01:52,240

in space by electromagnetic plasma waves.

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00:01:52,240 --> 00:01:57,601

Changes in frequency of electric and magnetic fields, recorded by our two Van Allen Probe

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00:01:57,601 --> 00:02:02,120

spacecraft orbiting Earth, were used to produce the sounds.

25

00:02:02,120 --> 00:02:07,310

The Van Allen Probes are being used to better understand the dynamics of space weather and

26

00:02:07,310 --> 00:02:11,850

its effects on satellites and telecommunications.

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00:02:11,850 --> 00:02:17,100

We participated in Mars Day – July 21 at the Smithsonian’s National Air and Space

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00:02:17,100 --> 00:02:19,090

Museum in Washington.

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00:02:19,090 --> 00:02:25,490

The annual celebration of the Red Planet included exhibits, speakers and educational activities.

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00:02:25,490 --> 00:02:30,390

There was also a Mars concept rover – developed using advice from NASA.

31

00:02:30,390 --> 00:02:34,940

The rover – which is on tour from the Kennedy Space Center Visitor’s Complex in Florida,

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00:02:34,940 --> 00:02:40,780

is designed to demonstrate features and equipment
a future human exploration vehicle might need

33

00:02:40,780 --> 00:02:44,819

to explore the surface of another planet.

34

00:02:44,819 --> 00:02:46,980

And that's what's up this week @NASA ...