

A photograph capturing the moment of an astronaut's return to Earth. The central figure is an older man with glasses, wearing a white and blue flight suit with a NASA patch and a name tag that reads "WANDA DEJ". He is smiling and looking towards a man in a dark jacket and black beanie on the left. Another man in a grey and black striped beanie is visible in the foreground on the right. The background shows the structure of an aircraft and other people on the tarmac. A blue banner with yellow letters is partially visible at the bottom left.

A safe return from the  
International Space Station ...

1

00:00:00,590 --> 00:00:03,219

A safe return from the International Space Station ...

2

00:00:03,219 --> 00:00:07,380

A new weather satellite launched into orbit ...

3

00:00:07,380 --> 00:00:12,350

And our next mission to Mars moves closer to launch ... a few of the stories to tell

4

00:00:12,350 --> 00:00:16,430

you about - This Week at NASA!

5

00:00:16,430 --> 00:00:20,750

After saying farewell to colleagues aboard the International Space Station, our Mark

6

00:00:20,750 --> 00:00:26,910

Vande Hei and Joe Acaba - along with Russia's Alexander Misurkin safely returned to Earth

7

00:00:26,910 --> 00:00:29,070

on Feb. 27.

8

00:00:29,070 --> 00:00:34,260

The crew's Soyuz spacecraft touched down in Kazakhstan - wrapping up a nearly six-month

9

00:00:34,260 --> 00:00:40,840

mission conducting research and operational work in support of the space station.

10

00:00:40,840 --> 00:00:44,059

"3-2-1 ... and liftoff."

11

00:00:44,059 --> 00:00:50,150

The National Oceanic and Atmospheric Administration's

## Geostationary Operational Environmental Satellite-S

12

00:00:50,150 --> 00:00:56,110

-- or GOES-S -- launched from Cape Canaveral Air Force Station, on March 1.

13

00:00:56,110 --> 00:01:01,399

It will provide faster, more accurate data on wildfires, tropical cyclones, and other

14

00:01:01,399 --> 00:01:08,619

hazards affecting the western U.S. - and the Pacific Ocean - all the way to New Zealand.

15

00:01:08,619 --> 00:01:14,240

Our InSight spacecraft was shipped from Lockheed Martin Space, in Denver to California's Vandenberg

16

00:01:14,240 --> 00:01:18,670

Air Force Base - to prepare for its launch to Mars in May.

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00:01:18,670 --> 00:01:23,840

InSight will be the first mission to study the activity deep beneath the Martian surface.

18

00:01:23,840 --> 00:01:30,749

It's also the first interplanetary spacecraft to launch from the west coast facility.

19

00:01:30,749 --> 00:01:37,249

NASA gold-plating technology, used on spacecraft as far back as the 1970s, also plays a supporting

20

00:01:37,249 --> 00:01:39,960

role at the Academy Awards.

21

00:01:39,960 --> 00:01:45,450

The gold-plating technique - perfected over many NASA projects by Brooklyn, NY-based Epner

22

00:01:45,450 --> 00:01:52,389

Technology - is used to make the Academy's  
coveted Oscar statuettes harder, shinier,

23

00:01:52,389 --> 00:01:56,479

and more durable than possible with traditional  
gold-plating.

24

00:01:56,479 --> 00:02:01,169

The company has provided gold-plating for  
spacecraft that have traveled to Mars, and

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00:02:01,169 --> 00:02:06,439

most recently, the James Webb Space Telescope  
that will launch next year to help answer

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00:02:06,439 --> 00:02:10,039

questions about our universe.

27

00:02:10,039 --> 00:02:11,849

That's what's up this week @NASA ...