



1

00:00:00,640 --> 00:00:04,790

"Here's some of the stories trending This Week at NASA!"

2

00:00:04,790 --> 00:00:09,790

NASA Administrator Charlie Bolden and Jean-Yves Le Gall, President of France's National Center

3

00:00:09,790 --> 00:00:15,610

of Space Studies or CNES, signed an agreement for cooperation on the lander for NASA's future

4

00:00:15,610 --> 00:00:17,830

InSight mission to Mars.

5

00:00:17,830 --> 00:00:22,310

InSight will probe deep into the subsurface of Mars to understand the evolutionary formation

6

00:00:22,310 --> 00:00:24,710

of rocky planets, including Earth.

7

00:00:24,710 --> 00:00:29,570

A CNES instrument onboard the lander is designed to measure seismic waves -- which provide

8

00:00:29,570 --> 00:00:34,390

clues about the earliest stages of the planet's formation.

9

00:00:34,390 --> 00:00:39,100

During a Congressional hearing at the Kennedy Space Center Visitor complex, chaired by Representative

10

00:00:39,100 --> 00:00:44,240

John Mica of Florida plans were discussed for putting vacant KSC buildings and excess

11

00:00:44,240 --> 00:00:47,489

property to their best and most productive use.

12  
00:00:47,489 --> 00:00:51,030  
Also participating was Kennedy Center Director Bob Cabana.

13  
00:00:51,030 --> 00:00:55,940  
The center is in the midst of a post-space shuttle era transformation into a multi-user

14  
00:00:55,940 --> 00:01:00,249  
spaceport for commercial and government customers.

15  
00:01:00,249 --> 00:01:05,089  
Officials at Langley Research Center hosted Senator Mark Warner of Virginia for a "look-see"

16  
00:01:05,089 --> 00:01:10,390  
at Langley's efforts to reduce the time needed to develop space-age composite materials and

17  
00:01:10,390 --> 00:01:12,229  
make them available for market.

18  
00:01:12,229 --> 00:01:17,360  
The Senator was briefed on a robotic processing platform called ISAAC -- that will play a

19  
00:01:17,360 --> 00:01:22,890  
key role in development of significantly improved aerospace structures and allow the Virginia

20  
00:01:22,890 --> 00:01:28,950  
facility to contribute to an emerging regional composites manufacturing research and development

21  
00:01:28,950 --> 00:01:29,950  
hub.

22  
00:01:29,950 --> 00:01:34,649  
NASA astronaut Jeff Williams has been named  
to the Expedition 48 crew and with Russian

23  
00:01:34,649 --> 00:01:40,530  
cosmonauts Alexey Ovchinin and Oleg Skripochka,  
will launch to the International Space Station

24  
00:01:40,530 --> 00:01:42,649  
in spring 2016.

25  
00:01:42,649 --> 00:01:47,611  
This will be the fourth spaceflight and third  
long-duration mission for Williams, the second

26  
00:01:47,611 --> 00:01:52,390  
long-duration flight for Skripochka and the  
first trip to space for Ovchinin.

27  
00:01:52,390 --> 00:01:54,979  
They'll return to Earth in fall 2016.

28  
00:01:54,979 --> 00:02:00,740  
A free-flight test of a Morpheus prototype  
lander took place February 10 at Kennedy Space

29  
00:02:00,740 --> 00:02:01,740  
Center.

30  
00:02:01,740 --> 00:02:07,940  
During the 74-second test, the lander rose  
to a height of 467-feet before finally landing

31  
00:02:07,940 --> 00:02:09,720  
on its target.

32  
00:02:09,720 --> 00:02:15,090  
Project Morpheus is testing NASA's ALHAT hazard  
avoidance technology and an engine that uses

33  
00:02:15,090 --> 00:02:18,670  
liquid oxygen and methane, or "green" propellants.

34  
00:02:18,670 --> 00:02:25,370  
These new capabilities could be used in future efforts to deliver cargo to planetary surfaces.

35  
00:02:25,370 --> 00:02:30,170  
Some of the most successful technology transfer projects developed at Ames Research Center

36  
00:02:30,170 --> 00:02:34,840  
were recently recognized at the center's 2013 Tech Transfer Awards.

37  
00:02:34,840 --> 00:02:40,650  
Among them, a nano-sensor attached to a cell phone that detects traces of chemicals -- such

38  
00:02:40,650 --> 00:02:46,340  
a small device could be used by astronauts on future planetary surface missions; a rehydration

39  
00:02:46,340 --> 00:02:51,690  
drink for athletes that's been tested by NASA astronauts to counter dehydration caused by

40  
00:02:51,690 --> 00:02:58,080  
spaceflight and a photo-mapping software toolkit that enables planetary rovers to navigate

41  
00:02:58,080 --> 00:02:59,690  
through 3D space.

42  
00:02:59,690 --> 00:03:02,300  
And that's what's up ... This Week at NASA.