



1

00:00:00,630 --> 00:00:05,170

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

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00:00:05,170 --> 00:00:10,870

On June 17, NASA Administrator Charlie Bolden gave the keynote address at the Aviation 2016

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00:00:10,870 --> 00:00:12,500

conference in Washington.

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00:00:12,500 --> 00:00:17,749

The speech entitled “Concept to Reality - Our Journey to Transforming Aviation,”

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00:00:17,749 --> 00:00:24,149

focused on NASA Aeronautics New Aviation Horizons, a 10-year research plan based on the president’s

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00:00:24,149 --> 00:00:27,199

Fiscal Year 2017 budget request.

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00:00:27,199 --> 00:00:32,640

The plan includes developing, manufacturing and flight-testing several experimental aircraft

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00:00:32,640 --> 00:00:34,270

or X-planes.

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00:00:34,270 --> 00:00:38,830

During his address, Bolden also highlighted the agency’s first X-plane designation in

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00:00:38,830 --> 00:00:40,180

a decade.

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00:00:40,180 --> 00:00:47,330

The X-57, nicknamed “Maxwell,” is an experimental airplane with propellers powered by 14 electric

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00:00:47,330 --> 00:00:48,330

motors.

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00:00:48,330 --> 00:00:53,260

The five-day conference also featured details on a set of roadmaps created by the agency

14

00:00:53,260 --> 00:00:58,090

to guide research in finding solutions for safe, efficient growth in global aviation

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00:00:58,090 --> 00:01:04,250

operations; innovation in commercial supersonic aircraft and ultra-efficient commercial vehicles;

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00:01:04,250 --> 00:01:10,359

transitioning to low-carbon propulsion; real-time, system-wide safety assurance; and assured

17

00:01:10,359 --> 00:01:14,500

autonomy for aviation transformation.

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00:01:14,500 --> 00:01:20,229

NASA held a news briefing on June 16 to provide the status of the Juno mission to Jupiter.

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00:01:20,229 --> 00:01:25,179

After an almost five-year voyage, the Juno spacecraft is scheduled to arrive at our solar

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00:01:25,179 --> 00:01:28,280

system's most massive planet on July 4.

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00:01:28,280 --> 00:01:32,999

It will be the first spacecraft to orbit over the poles of Jupiter – circling the Jovian

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00:01:32,999 --> 00:01:36,130

world about 37 times in 20 months.

23  
00:01:36,130 --> 00:01:40,729  
The mission is expected to provide new details about the planet's core, composition and

24  
00:01:40,729 --> 00:01:47,700  
magnetic fields, as well as provide new clues about the origins of the solar system.

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00:01:47,700 --> 00:01:52,159  
Expedition 47 Commander Tim Kopra used the International Space Station's Canadarm2

26  
00:01:52,159 --> 00:01:59,099  
to release the Orbital/ATK Cygnus cargo craft June 14, just hours after it was detached

27  
00:01:59,099 --> 00:02:01,290  
from the station's Unity module.

28  
00:02:01,290 --> 00:02:06,770  
Cygnus is loaded with trash and other unneeded items that will burn up reentering Earth's

29  
00:02:06,770 --> 00:02:07,799  
atmosphere.

30  
00:02:07,799 --> 00:02:12,500  
After its release, Cygnus was used to conduct a fire safety experiment and will release

31  
00:02:12,500 --> 00:02:14,660  
a group of nanosatellites.

32  
00:02:14,660 --> 00:02:20,060  
The spacecraft arrived at the ISS on March 26 with tons of experiments and supplies for

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00:02:20,060 --> 00:02:21,070  
the station crew.

34

00:02:21,070 --> 00:02:54,440  
It's scheduled to deorbit