



1
00:00:07,100 --> 00:00:10,950
This Week At NASA...

2
00:00:10,950 --> 00:00:15,940
The Ames Research Center was the scene of
a gathering of experts from government, industry

3
00:00:15,940 --> 00:00:21,070
and academia meeting to discuss the agency's
green aviation research efforts

4
00:00:21,070 --> 00:00:24,750
...doing research in alternative bio-fuels.

5
00:00:24,750 --> 00:00:30,090
and showcase groundbreaking solutions NASA
and its partners are developing to reduce

6
00:00:30,090 --> 00:00:33,750
the impact of aviation systems on the environment.

7
00:00:33,750 --> 00:00:40,559
Over a two day period, attendees heard researchers,
scientists, technicians and leading policymakers,

8
00:00:40,559 --> 00:00:45,690
present on the latest emerging environmentally
sensitive aviation technologies.

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00:00:45,690 --> 00:00:50,480
Please join us in welcoming our NASA Administrator,
Mr. Bolden.

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00:00:50,480 --> 00:00:55,030
NASA Administrator Charles Bolden addressed
the group on day one of the event.

11
00:00:55,030 --> 00:01:00,049
We're so excited at NASA about the opportunities

we're being given, in the coming years,

12
00:01:00,049 --> 00:01:05,590
to help develop solutions to some of our most
pressing aviation problems, and create the

13
00:01:05,590 --> 00:01:11,030
next generation of air transportation systems
that will last generations and make us all

14
00:01:11,030 --> 00:01:17,469
safer and make the planet a better place That's
a huge challenge, but we at NASA enthusiastically

15
00:01:17,469 --> 00:01:19,899
accept it.

16
00:01:19,899 --> 00:01:25,939
The clock is winding down as NASA astronauts
and ground crews continue to ready hardware

17
00:01:25,939 --> 00:01:32,930
and facilities for the next shuttle mission
to the International Space Station – STS-133.

18
00:01:32,930 --> 00:01:37,429
Space shuttle Discovery rolled over, from
the Kennedy Space Center's Orbiter Processing

19
00:01:37,429 --> 00:01:43,649
Facility-3 to the Vehicle Assembly Building,
VAB where it was mated to two solid rocket

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00:01:43,649 --> 00:01:49,130
boosters and a fuel tank. In the meantime,
Discovery's crew, Commander Steve Lindsey,

21
00:01:49,130 --> 00:01:55,380
Pilot Eric Boe, and Mission Specialists Michael
Barratt, Tim Kopra, Nicole Stott and Alvin

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00:01:55,380 --> 00:02:01,509
Drew, continue their training for a scheduled
November 1 flight.

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00:02:01,509 --> 00:02:06,500
The administrator graciously gave up a little
of his time off this Labor Day to participate

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00:02:06,500 --> 00:02:08,590
in festivities on the National Mall.

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00:02:08,590 --> 00:02:13,370
For me, it's an honor to be asked to come
out here with the National Symphony in front

26
00:02:13,370 --> 00:02:17,450
of people from all over the country, I have
learned by walking around and talking to some

27
00:02:17,450 --> 00:02:22,010
people, and actually from all around the world.
Just to have them hear the name NASA, as a

28
00:02:22,010 --> 00:02:26,560
part of this concert, I think, is really important,
and then having heard the music before from

29
00:02:26,560 --> 00:02:31,830
Apollo 13, I think they will be moved, as
I am, and that's really important.

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00:02:31,830 --> 00:02:37,340
Bolden introduced a musical segment from the
film Apollo 13 performed by the National Symphony

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00:02:37,340 --> 00:02:42,980
Orchestra conducted by Emil de Cou. The segment
honored the 40th anniversary of the mission.

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00:02:42,980 --> 00:02:48,390
I want to thank the NSO for recognizing the
great accomplishments of our human spaceflight

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00:02:48,390 --> 00:02:58,490
program with this tribute tonight to Apollo
13. So, I invite you -- enjoy!

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00:02:58,490 --> 00:03:04,810
Apollo 13 launched from the Kennedy Space
Center on April 11, 1970. The space vehicle

35
00:03:04,810 --> 00:03:10,480
crew included Commander Jim Lovell, Command
Module pilot John Swigert, and Lunar Module

36
00:03:10,480 --> 00:03:18,790
Pilot, Fred Haise. The annual Labor Day Concert
is held on the West Lawn of the U.S. Capitol.

37
00:03:18,790 --> 00:03:24,820
Also, over the Labor Day weekend, actor/rapper
Mos Def and astronaut Leland Melvin teamed

38
00:03:24,820 --> 00:03:30,040
up to share NASA's Summer of Innovation
program with young people at the Instituting

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00:03:30,040 --> 00:03:36,620
Science in Schools Science and Cultural Festival
at the Chabot Observatory in Oakland, California,

40
00:03:36,620 --> 00:03:41,630
and people attending the Tom Joyner Morning
Show Family Reunion in Orlando, Florida.

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00:03:41,630 --> 00:03:46,882
Without science and technology, you wouldn't
be able to enjoy the radio, television, the

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00:03:46,882 --> 00:03:48,210

internet.

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00:03:48,210 --> 00:03:54,960

Def and Melvin, using cutting-edge, holographic video technology, shared their enthusiasm

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00:03:54,960 --> 00:04:02,090

for science, technology and exploration, participating in events occurring 3,000 miles apart. Later,

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00:04:02,090 --> 00:04:07,480

at the Reunion, Melvin was part of a the Legends and Trailblazers panel, which included Star

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00:04:07,480 --> 00:04:13,760

Trek star Nichelle Nichols who played Lieutenant Uhuru on the popular 60's TV series.

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00:04:13,760 --> 00:04:19,440

NASA's Summer of Innovation program is a multi-faceted project to promote and improve

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00:04:19,440 --> 00:04:23,540

science, technology, engineering and mathematics in middle schools.

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00:04:23,540 --> 00:04:38,080

Just get out there and get good grades, cause that's the thing, if you want to work at

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00:04:38,080 --> 00:04:39,080

NASA; we take the best and the brightest. We'll help build you up, but you've got

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00:04:39,080 --> 00:04:40,080

to have something for us to start with to begin with.

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00:04:40,080 --> 00:04:43,470

The Dryden Flight Research Center held a special media event to discuss the Genesis and Rapid

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00:04:43,470 --> 00:04:49,650

Intensification Processes (GRIP) experiment, a multi-center campaign designed to better

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00:04:49,650 --> 00:04:54,350

understand how tropical storms form and develop into major hurricanes.

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00:04:54,350 --> 00:05:00,560

With GRIP we are trying to get a lot more high-resolution measurements, and with a single

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00:05:00,560 --> 00:05:08,050

airplane we may only have five-six hours on a storm, with Global Hawk, maybe 15 hours

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00:05:08,050 --> 00:05:11,889

on a single storm.

Media were introduced to the various aircraft

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00:05:11,889 --> 00:05:16,770

involved in the GRIP mission, including the Global Hawk Unmanned Airborne aircraft.

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00:05:16,770 --> 00:05:21,260

We have several new instruments that provide new measurement capabilities to study hurricanes

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00:05:21,260 --> 00:05:29,740

and we're coordinating with other federal agencies, NOAA, and the National Science Foundation.

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00:05:29,740 --> 00:05:35,740

During GRIP each plane will fly at various altitudes and carries a suite of remote sensing

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00:05:35,740 --> 00:05:40,639

instruments to observe and characterize the lifecycle of hurricanes.

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00:05:40,639 --> 00:05:45,990

The DC-8 aircraft was deployed to Florida and recently flew into the eye of hurricane

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00:05:45,990 --> 00:05:53,100

Earl.

And Now Centerpieces...

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00:05:53,100 --> 00:05:57,940

The Marshall Space Flight Center marked its 50th anniversary with multiple events honoring

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00:05:57,940 --> 00:06:00,180

the work of several generations.

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00:06:00,180 --> 00:06:05,080

Marshall Space Flight Center leaders unveiled an Alabama historic marker commemorating the

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00:06:05,080 --> 00:06:10,620

formation of the NASA center -- and the subsequent 50 years of Marshall innovation. The marker

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00:06:10,620 --> 00:06:15,490

was placed at the visitor's center for Redstone Arsenal, Marshall's home for the past 50

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00:06:15,490 --> 00:06:16,490

years.

71

00:06:16,490 --> 00:06:20,390

We really appreciate the recognition from our friends, neighbors, colleagues and patrons

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00:06:20,390 --> 00:06:25,211

from Huntsville and the state capital. Thank

you from the Marshall Space Flight Center

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00:06:25,211 --> 00:06:28,930

team, at T-plus-50 years and counting.

74

00:06:28,930 --> 00:06:34,590

To commemorate the historic anniversary, Marshall employees posed for an aerial photograph,

75

00:06:34,590 --> 00:06:40,510

by forming a giant 50. Immediately following the photo shoot, current and former NASA employees

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00:06:40,510 --> 00:06:45,710

and contractors were invited to a brief social, which included remarks from center director

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00:06:45,710 --> 00:06:50,250

Robert Lightfoot, a panel of astronauts discussing their experiences at the Marshall Center,

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00:06:50,250 --> 00:06:55,330

presentations of vintage photographs from the center's past, and historical displays,

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00:06:55,330 --> 00:07:00,270

including the office desk of rocket pioneer and the first Marshall director – Dr. Werner

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00:07:00,270 --> 00:07:02,080

Von Braun.

81

00:07:02,080 --> 00:07:06,730

The Cities of Huntsville and Madison, along with Madison County, Alabama declared Sept.

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00:07:06,730 --> 00:07:09,310

8 Marshall Space Flight Center Day.

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00:07:09,310 --> 00:07:15,389

On Sept. 8, 1960, President Dwight Eisenhower visited Huntsville to lead the Marshall Center's

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00:07:15,389 --> 00:07:17,020

dedication ceremony.

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00:07:17,020 --> 00:07:24,210

I dedicate this, the George C. Marshall Space Flight Center. May this great center be ever

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00:07:24,210 --> 00:07:27,180

worthy of its honored name.

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00:07:27,180 --> 00:07:32,210

He unveiled a bust of the center's namesake, U.S. Army Gen. George C. Marshall, who received

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00:07:32,210 --> 00:07:38,820

the Nobel Prize in 1953 for overseeing the European Recovery Program or Marshall Plan,

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00:07:38,820 --> 00:07:46,110

which secured \$13 billion dollars in post-war food, machinery and other aid for Europe.

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00:07:46,110 --> 00:07:51,470

Fans don't forget to visit the Little League Baseball Museum where a special exhibition

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00:07:51,470 --> 00:07:55,260

is now available from the National Aeronautics and Space Administration.

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00:07:55,260 --> 00:08:00,930

NASA was a big hit at this year's Little League World Series, from the official first pitch

93

00:08:00,930 --> 00:08:06,860

thrown from outer space, to the astronaut

meet and greet, to the more than 16,000 fans

94
00:08:06,860 --> 00:08:13,030
who checked out NASA exhibits including the
Exploration Experience in 3D. The exhibits

95
00:08:13,030 --> 00:08:17,260
were open throughout the Little League World
Series tournament, and included a touchable

96
00:08:17,260 --> 00:08:23,220
moon rock, demonstrations of what exhibit-goers
might look like as astronauts, and displays

97
00:08:23,220 --> 00:08:28,510
informing the public about some of the practical
research NASA's is engaged in that benefits

98
00:08:28,510 --> 00:08:34,539
everyday life here on earth, and a presentation
of a Little League patch flown by space shuttle

99
00:08:34,539 --> 00:08:37,710
pilot Colonel Terry Virts during mission STS-130.

100
00:08:37,710 --> 00:08:41,930
And that's This Week At NASA!