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1
00:00:06,980 --> 00:00:11,130
This Week at NASA …

2
00:00:11,130 --> 00:00:16,460
NASA commercial partner, SpaceX, is a step
closer on its planned journey to the International

3
00:00:16,460 --> 00:00:18,159
Space Station.

4
00:00:18,159 --> 00:00:20,500
\h
After its rollout to Space Launch Complex

5
00:00:20,500 --> 00:00:26,160
40 at Cape Canaveral Air Force Station in
Florida, the SpaceX Falcon 9 rocket was lifted

6
00:00:26,160 --> 00:00:30,390
into place for a static engine fire test simulating
launch.

7
00:00:30,390 --> 00:00:40,490
The exercise ended with all nine engines firing
at full power for two seconds.

8
00:00:40,490 --> 00:00:45,239
The successful test clears the way for Falcon
9’s upcoming demonstration flight to the

9
00:00:45,239 --> 00:00:51,699
ISS as part of NASA’s plan for private companies
to take over cargo delivery to the orbiting

10
00:00:51,699 --> 00:00:52,699
complex.

11
00:00:52,699 --> 00:00:53,859
\h

“We finished the thirty year incredible

12
00:00:53,859 --> 00:00:58,559
era of shuttle, but very excited about the
upcoming launch of \hSpaceX.

13
00:00:58,559 --> 00:01:03,610
What that will do will be to show to the world
that America is still the leader in space

14
00:01:03,610 --> 00:01:04,610
exploration.

15
00:01:04,610 --> 00:01:08,700
It’ll provide for us American access to
low Earth orbit, for cargo initially, then

16
00:01:08,700 --> 00:01:15,580
as we go through the rest of our competition,
American access for crewmembers.”

17
00:01:15,580 --> 00:01:21,290
Expedition 31 Soyuz Commander Gennady Padalka,
NASA Flight Engineer Joe Acaba and Flight

18
00:01:21,290 --> 00:01:26,970
Engineer Sergei Revin participated in traditional
ceremonies at the Gagarin Cosmonaut Training

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00:01:26,970 --> 00:01:29,950
Center in Star City, Russia, outside of Moscow.

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00:01:29,950 --> 00:01:35,150
The trio later departed for the Baikonur Cosmodrome
in Kazakhstan to complete training for their

21
00:01:35,150 --> 00:01:40,290
launch to the International Space Station
aboard the Soyuz spacecraft later this month.

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00:01:40,290 --> 00:01:45,520
Acaba, Padalka and Revin are scheduled to
conduct a series of prelaunch activities over

23
00:01:45,520 --> 00:01:52,600
the next two weeks as they prepare for liftoff
to the orbital outpost.

24
00:01:52,600 --> 00:01:57,570
NASA Deputy Administrator, Lori Garver visited
the NASA Shared Services Center at Stennis

25
00:01:57,570 --> 00:01:58,810
Space Center.

26
00:01:58,810 --> 00:02:05,110
The NSSC provides support to NASA in the areas
of Human Resources, Financial Management,

27
00:02:05,110 --> 00:02:09,750
Procurement, Information Technology, and Business
Support Services.

28
00:02:09,750 --> 00:02:15,120
Garver was briefed by Senior Leadership on
the latest NSSC initiatives, including the

29
00:02:15,120 --> 00:02:23,379
now fully-operational Enterprise Service Desk
that supports employees Agency-wide.

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00:02:23,379 --> 00:02:27,049
She also spoke with NSSC employees at an All
Hands event.

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00:02:27,049 --> 00:02:33,069
“I really enjoyed getting to know not only
the management but the whole team that works

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00:02:33,069 --> 00:02:35,060
here to support us at NASA.

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00:02:35,060 --> 00:02:40,700
The work that we are doing could not be done
without the NSSC and I am just thrilled to

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00:02:40,700 --> 00:02:46,200
be here for the awards program and I got to
take a couple of calls and I am really happy

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00:02:46,200 --> 00:02:49,749
that you guys have done such a great job at
supporting NASA."

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00:02:49,749 --> 00:03:02,900
For more info about the NSSC and its services,
check out www.nssc.nasa.gov.

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00:03:02,900 --> 00:03:07,849
NASA Chief Technologist Mason Peck visited
the Ames Research Center, where \hhe was briefed

38
00:03:07,849 --> 00:03:12,400
on projects in biology, nanotechnology, and
telerobotics.

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00:03:12,400 --> 00:03:17,469
Peck also visited Stottler Henke, a small
software company in the Bay Area that's

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00:03:17,469 --> 00:03:22,209
received more than 50 NASA Small Business
Innovative Research awards.

41
00:03:22,209 --> 00:03:28,329
CEO Dick Stottler briefed Peck about the unique
artificial intelligence software systems the

42
00:03:28,329 --> 00:03:33,299

company’s developed for NASA and other government agencies and private manufacturers while creating

43
00:03:33,299 --> 00:03:35,889
new jobs here in the U.S.

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00:03:35,889 --> 00:03:42,900
The 2nd Annual USA Science and Engineering Festival, held at the Washington, DC Convention

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00:03:42,900 --> 00:03:49,079
Center featured more than 35 NASA-sponsored exhibits aimed at inspiring students to pursue

46
00:03:49,079 --> 00:03:53,700
careers in science, technology, engineering and math.

47
00:03:53,700 --> 00:03:59,150
The country's only national science fair, the USA Science & Engineering Festival was

48
00:03:59,150 --> 00:04:05,280
founded to celebrate scientists and engineers, much like film and music stars, and professional

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00:04:05,280 --> 00:04:11,219
athletes.

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00:04:11,219 --> 00:04:17,109
Aspiring rocketeers showed off their gravity-defying skills at the NASA Student Launch Projects

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00:04:17,109 --> 00:04:18,530
flight challenge.

52
00:04:18,530 --> 00:04:24,321
The annual event, organized by the Marshall Space Flight Center and sponsored by ATK Aerospace

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00:04:24,321 --> 00:04:30,380
Group, provides teams of middle school through
college students the opportunity to design,

54
00:04:30,380 --> 00:04:34,210
build and test large-scale rockets.

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00:04:34,210 --> 00:04:43,330
The teams vie to see whose rocket gets closest
to the 1-mile high altitude mark and safely

56
00:04:43,330 --> 00:04:45,920
returns its onboard science payload to Earth.

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00:04:45,920 --> 00:04:51,710
“We’re getting real world experience here
about what people can do after they graduate

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00:04:51,710 --> 00:04:56,490
for aerospace engineering, mechanical engineering,
electrical and science in general.

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00:04:56,490 --> 00:05:01,670
\hAnd it’s been a tremendous help and realization
to see what actual companies are doing in

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00:05:01,670 --> 00:05:03,270
the real world after school.”

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00:05:03,270 --> 00:05:07,570
“We need engineers, we as a country need
engineers and we as ATK need engineers we

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00:05:07,570 --> 00:05:09,650
as an aerospace industry need engineers.

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00:05:09,650 --> 00:05:16,130
This is probably the best way I can think
of to encourage them to join us.”

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00:05:16,130 --> 00:05:20,870
High school teams from across the country
presented their solutions to a variety of

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00:05:20,870 --> 00:05:27,350
21st century problems during the Conrad Foundation's
fifth annual Innovation Summit held at the

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00:05:27,350 --> 00:05:29,350
Ames Research Center.

67
00:05:29,350 --> 00:05:35,490
The event included 15 finalist teams competing
in the categories of aerospace exploration,

68
00:05:35,490 --> 00:05:38,490
clean energy and health and nutrition.

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00:05:38,490 --> 00:05:44,520
Each category's winning teams received cash
prizes of $5,000 to continue development of

70
00:05:44,520 --> 00:05:47,990
their projects.

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00:05:47,990 --> 00:05:53,590
NASA Astronaut Dottie Metcalf-Lindenburger
will lead an international team of four aquanauts

72
00:05:53,590 --> 00:06:00,740
on the 16th NASA Extreme Environment Mission
Operations or NEEMO expedition next month

73
00:06:00,740 --> 00:06:04,370
off the coast of Key Largo, Florida.

74
00:06:04,370 --> 00:06:11,150
The 12-day mission at the bottom of the Atlantic

Ocean will simulate a visit to an asteroid

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00:06:11,150 --> 00:06:16,090
and test innovative solutions to challenges
astronauts expect to face.

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00:06:16,090 --> 00:06:21,280
Joining Metcalf-Lindenburger inside the National
Oceanic and Atmospheric Administration's Aquarius

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00:06:21,280 --> 00:06:26,930
Reef Base undersea habitat will be fellow
astronauts Kimiya Yui of the Japan Aerospace

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00:06:26,930 --> 00:06:31,680
Exploration Agency and Timothy Peake of the
European Space Agency.

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00:06:31,680 --> 00:06:36,990
Rounding out the crew is Steve Squyres, the
Cornell University astronomy professor and

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00:06:36,990 --> 00:06:41,340
principal investigator of the Mars Rovers,
Spirit and Opportunity.

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00:06:41,340 --> 00:06:46,170
Squyres was on the previous NEEMO crew.

82
00:06:46,170 --> 00:06:53,150
The Agency’s Website, nasa.gov, has won
Webby awards in two categories as the best

83
00:06:53,150 --> 00:06:54,650
in government.

84
00:06:54,650 --> 00:07:01,060
The site received its fourth consecutive People's
Voice Award, its fifth overall, and for the

85
00:07:01,060 --> 00:07:07,330
first time, captured the annual competition’s
judges' Award.

86
00:07:07,330 --> 00:07:11,780
\h
www.nasa.gov is one of the most visited government

87
00:07:11,780 --> 00:07:26,700
urls, with consistently high customer-satisfaction
ratings comparable to popular commercial sites.

88
00:07:26,700 --> 00:07:35,020
Its busiest day ever was July 8, 2011, when
NASA TV coverage of the launch of STS-135,

89
00:07:35,020 --> 00:07:41,690
the final space shuttle mission, was watched
by more than 560,000 people at nasa.gov.

90
00:07:41,690 --> 00:07:46,370
\h
A Webby Award is the foremost honor recognizing

91
00:07:46,370 --> 00:07:55,340
the world’s best Websites.

92
00:07:55,340 --> 00:08:01,970
At the Johnson Space Center, The Westbrook
Intermediate School Band, winners of the 2011

93
00:08:01,970 --> 00:08:09,340
Texas State Band Contest, performed a special
concert for JSC employees in the Teague Auditorium.

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00:08:09,340 --> 00:08:14,410
The featured selection was a special piece
commissioned by the band directors to commemorate

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00:08:14,410 --> 00:08:20,820
the Space Shuttle Program entitled, “STS Mission: Ecceda Terra.”

96
00:08:20,820 --> 00:08:28,550
“Mission STS, which is the scientific distinction in the title and Ecceda Terra, which is the

97
00:08:28,550 --> 00:08:29,550
poetic.

98
00:08:29,550 --> 00:08:35,380
Now Ecceda Terra as derived from both the Italian and Latin languages to mean ‘to

99
00:08:35,380 --> 00:08:37,810
exceed the Earth’ – so very fitting.

100
00:08:37,810 --> 00:08:43,339
Ecceda coming from the Latin ‘Eccedo’, which means ‘to exceed’ and terra meaning

101
00:08:43,339 --> 00:08:44,339
‘Earth’.”

102
00:08:44,339 --> 00:08:50,089
A photo of the band in front of the Full Fuselage Shuttle Trainer at JSC was included in their

103
00:08:50,089 --> 00:08:58,640
concert program.

104
00:08:58,640 --> 00:09:12,089
“My name is Daphne Dador and I’m a Legislative Affairs Specialist at NASA Headquarters.

105
00:09:12,089 --> 00:09:19,310
My office’s mission is to handle all communications and relationships related to legislative issues

106
00:09:19,310 --> 00:09:24,730
between the agency and congress, and so I
do things like help out with preparing for

107
00:09:24,730 --> 00:09:29,339
congressional hearings, handling requests
from members of congress and their staff as

108
00:09:29,339 --> 00:09:31,649
well as monitoring relevant legislation.

109
00:09:31,649 --> 00:09:32,649
I grew up in California.

110
00:09:32,649 --> 00:09:38,760
I was in the San Francisco Bay Area, you know
NASA Ames has always been a presence for me.

111
00:09:38,760 --> 00:09:43,279
When I was little, my Grandparents would take
myself and my brothers out to Moffett Field.

112
00:09:43,279 --> 00:09:48,029
I've always been attracted to coming to
a place with a larger cause and a bigger idea,

113
00:09:48,029 --> 00:09:50,839
so Washington, D.C. to me was a place to do
that.

114
00:09:50,839 --> 00:09:55,339
I had an undergraduate degree in politics,
which is something that a lot of people in

115
00:09:55,339 --> 00:09:59,339
Washington, D.C. have and so I decided that
I needed to specialize in an area.

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00:09:59,339 --> 00:10:04,649

So, I decided to go to graduate school and
I found the Space Policy Institute at George

117
00:10:04,649 --> 00:10:06,750
Washington University.

118
00:10:06,750 --> 00:10:10,100
And that's where I learned that there was
this field called Space Policy and that I

119
00:10:10,100 --> 00:10:13,160
could be involved with it even though I wasn't
a scientist or an engineer.

120
00:10:13,160 --> 00:10:18,540
At this agency, I think it represents the
best about being an American.

121
00:10:18,540 --> 00:10:24,300
It's having an enterprising nature, it's
advancing humanity and knowledge and you know,

122
00:10:24,300 --> 00:10:26,050
it's that American spirit.

123
00:10:26,050 --> 00:10:29,749
On the outside I've always been proud of
our space program, but now that I'm part

124
00:10:29,749 --> 00:10:34,290
of the agency I feel that it's even more
important for me when I go home or when I

125
00:10:34,290 --> 00:10:40,800
go out to talk about what we do and why it's
so important to the nation."

126
00:10:40,800 --> 00:10:48,139
Fifty-one years ago on May 5, 1961, Mercury
astronaut Alan Shepard launched aboard his

127
00:10:48,139 --> 00:10:54,569
Freedom 7 spacecraft from Cape Canaveral's
Launch Complex 5, making him the first American

128
00:10:54,569 --> 00:10:55,930
in space.

129
00:10:55,930 --> 00:11:00,939
His historic flight came three weeks after
Russian cosmonaut Yuri Gagarin became the

130
00:11:00,939 --> 00:11:02,880
first human to do so.

131
00:11:02,880 --> 00:11:10,309
Shepard's suborbital flight reached an altitude
of 116-miles and lasted about 15 minutes.

132
00:11:10,309 --> 00:11:16,089
After traveling just over 300-miles, Shepard
and Freedom 7 splashed down safely in the

133
00:11:16,089 --> 00:11:19,329
Atlantic Ocean.

134
00:11:19,329 --> 00:11:25,709
Twenty years ago on May 7, 1992, Space Shuttle
Endeavour launched from the Kennedy Space

135
00:11:25,709 --> 00:11:39,319
Center on its maiden voyage – STS-49.

136
00:11:39,319 --> 00:11:45,110
The nine-day mission included the first three-person
spacewalk, during which Mission Specialists

137
00:11:45,110 --> 00:11:52,430
Pierre Thuot, Richard Hieb and Tom Akers retrieved

and attached the crippled Intelsat VI satellite

138
00:11:52,430 --> 00:11:58,749
to a new upper stage, then re-launched it
to its intended geosynchronous orbit.

139
00:11:58,749 --> 00:12:04,129
Providing assistance inside Endeavour was
Commander Dan Brandenstein, Mission Specialists

140
00:12:04,129 --> 00:12:11,279
Kathy Thornton and Bruce Melnick, and Pilot
Kevin Chilton, a 2012 inductee of the Astronaut

141
00:12:11,279 --> 00:12:13,380
Hall of Fame.

142
00:12:13,380 --> 00:12:15,799
And that’s This Week @ NASA!

143
00:12:15,799 --> 00:12:17,999
\h
For more on these and other stories, or to