



Exploration Technology Development Program (ETDP) Energy Storage Project  
Advanced Utilization Cell Development for Exploration Boats

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1  
00:00:07,040 --> 00:00:13,589  
this week at nasa

2  
00:00:18,310 --> 00:00:16,390  
at the baikonur cosmodrome in kazakhstan

3  
00:00:19,990 --> 00:00:18,320  
training continues for the next

4  
00:00:22,710 --> 00:00:20,000  
residents of the international space

5  
00:00:25,589 --> 00:00:22,720  
station expedition 30 soyuz commander

6  
00:00:28,390 --> 00:00:25,599  
ole kononenko nasa flight engineer don

7  
00:00:30,790 --> 00:00:28,400  
pettit and european space agency flight

8  
00:00:32,790 --> 00:00:30,800  
engineer andre kuipers are reviewing

9  
00:00:34,389 --> 00:00:32,800  
flight procedures and making other

10  
00:00:35,990 --> 00:00:34,399  
preparations in advance of their

11  
00:00:37,190 --> 00:00:36,000  
upcoming launch to the orbiting

12  
00:00:39,670 --> 00:00:37,200  
laboratory

13  
00:00:41,670 --> 00:00:39,680

the trio plans to join current iss crew

14

00:00:44,470 --> 00:00:41,680

members commander dan burbank and

15

00:00:47,190 --> 00:00:44,480

cosmonauts anton shkaplerov and anatoly

16

00:00:58,069 --> 00:00:47,200

ivanishin two days after their scheduled

17

00:01:01,990 --> 00:00:59,670

members of the news media were at the

18

00:01:04,070 --> 00:01:02,000

langley research center's hydro impact

19

00:01:05,830 --> 00:01:04,080

basin to watch the final water landing

20

00:01:08,310 --> 00:01:05,840

test of the year of the orion crew

21

00:01:10,550 --> 00:01:08,320

capsule testing began this summer to

22

00:01:13,190 --> 00:01:10,560

certify the orion spacecraft for water

23

00:01:18,550 --> 00:01:13,200

landings orion will carry astronauts

24

00:01:23,510 --> 00:01:20,469

and nasa conducted its latest test

25

00:01:25,990 --> 00:01:23,520

firing of the j2x rocket engine the next

26

00:01:28,789 --> 00:01:26,000

generation engine will help repel orion

27

00:01:31,030 --> 00:01:28,799

beyond low earth orbit this test is to

28

00:01:33,670 --> 00:01:31,040

give engineers a better understanding of

29

00:01:35,990 --> 00:01:33,680

start and shutdown procedures and the

30

00:01:41,109 --> 00:01:36,000

engine's performance after modifications

31

00:01:45,830 --> 00:01:43,749

nasa's dawn spacecraft has embarked on a

32

00:01:48,550 --> 00:01:45,840

new phase of science observations of

33

00:01:51,429 --> 00:01:48,560

vesta by successfully maneuvering into

34

00:01:53,350 --> 00:01:51,439

its closest orbit of the giant asteroid

35

00:01:56,310 --> 00:01:53,360

for this phase of dawn's mission known

36

00:01:58,389 --> 00:01:56,320

as the low altitude mapping orbit the

37

00:02:01,270 --> 00:01:58,399

spacecraft will circle vesta at an

38

00:02:03,429 --> 00:02:01,280

average altitude of about 130 miles for

39

00:02:06,389 --> 00:02:03,439

at least 10 weeks

40

00:02:09,029 --> 00:02:06,399

launched in 2007 dawn has been in orbit

41

00:02:11,350 --> 00:02:09,039

around vesta the second most massive

42

00:02:13,670 --> 00:02:11,360

object in the asteroid belt between mars

43

00:02:14,869 --> 00:02:13,680

and jupiter

44

00:02:17,510 --> 00:02:14,879

welcome

45

00:02:19,830 --> 00:02:17,520

to third rock radio

46

00:02:21,589 --> 00:02:19,840

powered with nasa

47

00:02:24,949 --> 00:02:21,599

nasa has joined forces with

48

00:02:27,990 --> 00:02:24,959

houston-based rfc media to establish a

49

00:02:29,510 --> 00:02:28,000

new internet music channel third rock

50

00:02:31,830 --> 00:02:29,520

the space station

51  
00:02:34,309 --> 00:02:31,840  
third rock the alternative indie rock

52  
00:02:37,190 --> 00:02:34,319  
music cool stuff in the sky alert and

53  
00:02:39,110 --> 00:02:37,200  
information about nasa plays to tech

54  
00:02:40,550 --> 00:02:39,120  
savvy young adults open to learning

55  
00:02:43,350 --> 00:02:40,560  
about the agency's mission of

56  
00:02:44,470 --> 00:02:43,360  
exploration and discovery we focus on

57  
00:02:49,270 --> 00:02:44,480  
stem

58  
00:02:50,390 --> 00:02:49,280  
science and technology and engineering

59  
00:02:51,670 --> 00:02:50,400  
and math

60  
00:02:54,470 --> 00:02:51,680  
to remind

61  
00:02:56,949 --> 00:02:54,480  
young adults that a career in that

62  
00:02:59,270 --> 00:02:56,959  
direction is a great way to have a

63  
00:03:02,229 --> 00:02:59,280

wonderful life possibly end up with a

64

00:03:06,550 --> 00:03:02,239

career at nasa third rock can be reached

65

00:03:08,710 --> 00:03:06,560

from nasa's homepage at [www.nasa.gov](http://www.nasa.gov)

66

00:03:11,190 --> 00:03:08,720

and will soon be available through nasa

67

00:03:13,990 --> 00:03:11,200

iphone android mobile apps

68

00:03:16,630 --> 00:03:14,000

developed at no cost to taxpayers third

69

00:03:19,190 --> 00:03:16,640

rock could pay off as the soundtrack for

70

00:03:21,270 --> 00:03:19,200

america's next generation of scientists

71

00:03:24,470 --> 00:03:21,280

technologists engineers and

72

00:03:28,390 --> 00:03:26,390

four teams of experts have been formed

73

00:03:31,110 --> 00:03:28,400

by the national institute for rocket

74

00:03:33,110 --> 00:03:31,120

propulsion systems to address challenges

75

00:03:34,630 --> 00:03:33,120

to the nation's leadership in rocket and

76

00:03:36,550 --> 00:03:34,640

missile propulsion

77

00:03:38,869 --> 00:03:36,560

the announcement was made at the joint

78

00:03:41,030 --> 00:03:38,879

army navy nasa air force conference in

79

00:03:43,190 --> 00:03:41,040

huntsville the teams which include

80

00:03:45,589 --> 00:03:43,200

officials from government industry and

81

00:03:47,750 --> 00:03:45,599

academia will spend several months

82

00:03:50,390 --> 00:03:47,760

developing solution strategies the

83

00:03:53,589 --> 00:03:50,400

reason it's so critical is because

84

00:03:55,670 --> 00:03:53,599

propulsion underlies so much of

85

00:03:58,229 --> 00:03:55,680

what nasa does in terms of getting our

86

00:04:00,949 --> 00:03:58,239

systems up into space it's also such a

87

00:04:02,710 --> 00:04:00,959

key element of our nation's strategic

88

00:04:05,030 --> 00:04:02,720

defense capabilities

89

00:04:06,550 --> 00:04:05,040

and we draw on a common industrial base

90

00:04:09,030 --> 00:04:06,560

that although we do different things

91

00:04:10,789 --> 00:04:09,040

with it dod and nasa really share an

92

00:04:12,710 --> 00:04:10,799

industrial base and the health is

93

00:04:14,550 --> 00:04:12,720

important to dod accomplishing their

94

00:04:17,830 --> 00:04:14,560

mission and for nasa to be able to

95

00:04:21,749 --> 00:04:19,909

the glenn research center recently held

96

00:04:24,230 --> 00:04:21,759

a day-long technology showcase at

97

00:04:26,310 --> 00:04:24,240

cleveland's airport marriott hotel

98

00:04:29,590 --> 00:04:26,320

more than 200 representatives of firms

99

00:04:32,070 --> 00:04:29,600

throughout ohio learned how 35 select

100

00:04:35,430 --> 00:04:32,080

technologies at glenn can improve their

101  
00:04:37,909 --> 00:04:35,440  
business and create jobs this showcase

102  
00:04:40,469 --> 00:04:37,919  
is part of a journey we are on at glenn

103  
00:04:42,710 --> 00:04:40,479  
led by our center director mr lugo to

104  
00:04:44,629 --> 00:04:42,720  
become a better partner both locally

105  
00:04:47,110 --> 00:04:44,639  
regionally statewide as well as

106  
00:04:49,909 --> 00:04:47,120  
nationally so that again we can leverage

107  
00:04:52,230 --> 00:04:49,919  
the 700 million dollar investment in

108  
00:04:55,110 --> 00:04:52,240  
nasa glenn to have a bigger economic

109  
00:04:56,870 --> 00:04:55,120  
impact on our state and on our country

110  
00:04:59,510 --> 00:04:56,880  
among the highlighted technologies and

111  
00:05:02,629 --> 00:04:59,520  
products were solar energy aerogels for

112  
00:05:04,870 --> 00:05:02,639  
insulation and materials for windmills

113  
00:05:06,629 --> 00:05:04,880

glenn wants new private sector partners

114

00:05:09,430 --> 00:05:06,639

who can develop jobs in science and

115

00:05:13,270 --> 00:05:09,440

technology to keep young ohioans from

116

00:05:17,830 --> 00:05:15,510

the high fidelity space shuttle model on

117

00:05:20,629 --> 00:05:17,840

display at the nasa kennedy space center

118

00:05:23,350 --> 00:05:20,639

visitor complex in florida is making its

119

00:05:25,110 --> 00:05:23,360

way to a new home in texas

120

00:05:27,830 --> 00:05:25,120

the space shuttle model was part of a

121

00:05:30,390 --> 00:05:27,840

display at the visitor complex that also

122

00:05:32,469 --> 00:05:30,400

included an external fuel tank and two

123

00:05:35,029 --> 00:05:32,479

solid rocket boosters

124

00:05:37,590 --> 00:05:35,039

the model mounted on a transporter made

125

00:05:40,150 --> 00:05:37,600

an approximately five hour six mile trek

126  
00:05:42,629 --> 00:05:40,160  
from the visitor complex to nasa kennedy

127  
00:05:45,270 --> 00:05:42,639  
space center's launch complex 39 turn

128  
00:05:47,510 --> 00:05:45,280  
basin when it leaves kennedy via barge

129  
00:05:49,990 --> 00:05:47,520  
in a few months the model will be put on

130  
00:05:52,950 --> 00:05:50,000  
display at nasa johnson space center's

131  
00:05:54,790 --> 00:05:52,960  
visitor center space center houston

132  
00:05:57,110 --> 00:05:54,800  
model's departure from kennedy space

133  
00:05:59,510 --> 00:05:57,120  
center visitor complex clears the way

134  
00:06:01,670 --> 00:05:59,520  
for construction to start next year on a

135  
00:06:05,749 --> 00:06:01,680  
new facility to display space shuttle

136  
00:06:10,790 --> 00:06:07,990  
is a different way when we put it on the

137  
00:06:12,950 --> 00:06:10,800  
ocean captain chesley sully sullenberger

138  
00:06:15,430 --> 00:06:12,960

recently visited the vertical motion

139

00:06:18,629 --> 00:06:15,440

simulator at the ames research center

140

00:06:20,790 --> 00:06:18,639

sullenberger an airline safety expert is

141

00:06:24,390 --> 00:06:20,800

best known as the pilot who safely

142

00:06:27,990 --> 00:06:24,400

landed u.s airways flight 1549 in new

143

00:06:30,390 --> 00:06:28,000

york city's hudson river in january 2009

144

00:06:32,390 --> 00:06:30,400

after losing power to both engines six

145

00:06:34,710 --> 00:06:32,400

minutes after takeoff from laguardia

146

00:06:36,550 --> 00:06:34,720

airport on the visit to ames

147

00:06:38,710 --> 00:06:36,560

sullenberger practiced space shuttle

148

00:06:41,110 --> 00:06:38,720

landings in the simulator and was

149

00:06:43,749 --> 00:06:41,120

briefed by vms staff about how the

150

00:06:49,670 --> 00:06:43,759

facility is contributing to aviation and

151  
00:06:55,110 --> 00:06:52,790  
the 2011 mississippi championship first

152  
00:06:57,670 --> 00:06:55,120  
lego league tournament was recently held

153  
00:07:00,629 --> 00:06:57,680  
in hattiesburg the tournament sponsored

154  
00:07:02,790 --> 00:07:00,639  
by nasa marked the 10th year first lego

155  
00:07:05,029 --> 00:07:02,800  
league activity in mississippi

156  
00:07:06,790 --> 00:07:05,039  
about 500 elementary and middle school

157  
00:07:10,070 --> 00:07:06,800  
students participated in this year's

158  
00:07:12,790 --> 00:07:10,080  
competition focused on food safety the

159  
00:07:15,670 --> 00:07:12,800  
teams built tested and programmed an

160  
00:07:17,990 --> 00:07:15,680  
autonomous robot to solve a set of food

161  
00:07:20,550 --> 00:07:18,000  
safety missions

162  
00:07:22,230 --> 00:07:20,560  
as they do each year volunteers from the

163  
00:07:24,870 --> 00:07:22,240

stennis space center's office of

164

00:07:31,350 --> 00:07:24,880

education again served as mentors

165

00:07:35,189 --> 00:07:33,350

and the office of education is one of

166

00:07:36,950 --> 00:07:35,199

several headquarters organizations

167

00:07:40,070 --> 00:07:36,960

spreading holiday cheer to u.s

168

00:07:42,469 --> 00:07:40,080

servicemen and women in southwest asia

169

00:07:45,830 --> 00:07:42,479

operation cookies sendoff supports our

170

00:07:48,550 --> 00:07:45,840

soldiers airmen marines sailors and

171

00:07:51,350 --> 00:07:48,560

naval aviators stationed at al adid air

172

00:07:55,270 --> 00:07:51,360

base in qatar each box has enough

173

00:07:57,749 --> 00:07:55,280

cookies for 120 service personnel and we

174

00:08:00,309 --> 00:07:57,759

have been having baking marathons all

175

00:08:01,990 --> 00:08:00,319

weekend leading up to this moment and we

176

00:08:04,390 --> 00:08:02,000

plan now to send these off in the next

177

00:08:06,790 --> 00:08:04,400

day or two so they'll arrive if not on

178

00:08:09,110 --> 00:08:06,800

christmas day the day after christmas

179

00:08:11,350 --> 00:08:09,120

the airmen at al-adid are volunteering

180

00:08:13,990 --> 00:08:11,360

in a science and technology program at

181

00:08:16,150 --> 00:08:14,000

the american school in doha qatar

182

00:08:18,550 --> 00:08:16,160

nasa education provided support for the

183

00:08:21,350 --> 00:08:18,560

initiative this past summer

184

00:08:23,430 --> 00:08:21,360

and that's this week at nasa for more on