



1
00:00:13,490 --> 00:00:11,930
this week at NASA the best three ways of

2
00:00:15,650 --> 00:00:13,500
dealing with the potential of an

3
00:00:17,630 --> 00:00:15,660
asteroid impact are to find them early

4
00:00:20,359 --> 00:00:17,640
find them early and find them early

5
00:00:23,509 --> 00:00:20,369
there are fewer asteroids in Earth's

6
00:00:25,839 --> 00:00:23,519
vicinity than previously believed that

7
00:00:28,750 --> 00:00:25,849
finding was made by NASA's wide-field

8
00:00:31,310 --> 00:00:28,760
Infrared Survey Explorer or wise

9
00:00:32,900 --> 00:00:31,320
satellite we've learned with neowise

10
00:00:34,370 --> 00:00:32,910
that the worldwide community of

11
00:00:37,520 --> 00:00:34,380
astronomers looking at near-earth

12
00:00:39,590 --> 00:00:37,530
asteroids have found 93% of all the

13
00:00:41,360 --> 00:00:39,600

really big near-earth asteroids that we

14

00:00:44,119 --> 00:00:41,370

think are out there and this has

15

00:00:46,340 --> 00:00:44,129

substantially reduced the risk of an

16

00:00:48,380 --> 00:00:46,350

impact that is not warned in other words

17

00:00:50,270 --> 00:00:48,390

we know now where most of them are and

18

00:00:53,119 --> 00:00:50,280

where most of them are going the sky

19

00:00:55,310 --> 00:00:53,129

survey conducted by wise also yielded

20

00:00:58,160 --> 00:00:55,320

more accurate estimates of asteroids

21

00:01:00,560 --> 00:00:58,170

sizes scientists may use this data to

22

00:01:03,340 --> 00:01:00,570

determine which near-earth asteroids are

23

00:01:06,200 --> 00:01:03,350

most suitable for future exploration

24

00:01:08,179 --> 00:01:06,210

already nASA has found more than ninety

25

00:01:10,820 --> 00:01:08,189

percent of the one kilometer sized

26

00:01:13,580 --> 00:01:10,830

asteroids orbiting near our planet

27

00:01:14,660 --> 00:01:13,590

overall at this point our understanding

28

00:01:18,050 --> 00:01:14,670

of the near-earth asteroid population

29

00:01:19,880 --> 00:01:18,060

has been significantly improved and we

30

00:01:24,109 --> 00:01:19,890

believe that the hazard to the earth may

31

00:01:27,649 --> 00:01:24,119

be somewhat less isn't every day that

32

00:01:30,020 --> 00:01:27,659

you literally get to begin a program

33

00:01:33,530 --> 00:01:30,030

that will take us where no one has gone

34

00:01:36,050 --> 00:01:33,540

before deputy administrator lori garver

35

00:01:39,620 --> 00:01:36,060

was keynote speaker at Space Launch

36

00:01:41,450 --> 00:01:39,630

System industry day in Huntsville Garver

37

00:01:45,109 --> 00:01:41,460

along with agency procurement officials

38

00:01:46,969 --> 00:01:45,119

and SLS program managers met with

39

00:01:49,999 --> 00:01:46,979

contractors and small business

40

00:01:52,580 --> 00:01:50,009

entrepreneurs to share NASA strategy for

41

00:01:55,179 --> 00:01:52,590

acquiring parts components and services

42

00:01:57,850 --> 00:01:55,189

for the new heavy-lift launch vehicle

43

00:02:01,100 --> 00:01:57,860

scheduled for full-scale test flight in

44

00:02:01,750 --> 00:02:01,110

2017 the new rocket will take astronauts

45

00:02:03,700 --> 00:02:01,760

beyond

46

00:02:06,070 --> 00:02:03,710

low Earth orbit and support new

47

00:02:08,469 --> 00:02:06,080

exploration missions across the solar

48

00:02:10,990 --> 00:02:08,479

system will help expand our knowledge at

49

00:02:14,230 --> 00:02:11,000

the universe reap benefits to improve

50

00:02:17,320 --> 00:02:14,240

life here on earth inspire millions

51
00:02:19,480 --> 00:02:17,330
around the world and create better jobs

52
00:02:21,520 --> 00:02:19,490
right here at home the event was held

53
00:02:23,170 --> 00:02:21,530
during the Marshall Space Flight centers

54
00:02:26,110 --> 00:02:23,180
quarterly Small Business Alliance

55
00:02:28,480 --> 00:02:26,120
meeting a forum where small business

56
00:02:30,280 --> 00:02:28,490
leaders discuss opportunities with NASA

57
00:02:32,650 --> 00:02:30,290
representatives and large prime

58
00:02:34,810 --> 00:02:32,660
contractors NASA's partnership with all

59
00:02:37,450 --> 00:02:34,820
the companies is here this morning could

60
00:02:41,530 --> 00:02:37,460
not be more critical if we cannot

61
00:02:43,420 --> 00:02:41,540
effectively partner with industry we

62
00:02:45,190 --> 00:02:43,430
won't be able to do this NASA

63
00:02:47,590 --> 00:02:45,200

successfully partnered with industry

64

00:02:49,930 --> 00:02:47,600

throughout our history about eighty-five

65

00:02:52,949 --> 00:02:49,940

percent of an ask dollar goes to

66

00:02:55,090 --> 00:02:52,959

aerospace industry we are family

67

00:03:02,110 --> 00:02:55,100

Marshall leads the design and

68

00:03:08,170 --> 00:03:04,740

in the skies above santa rosa california

69

00:03:10,420 --> 00:03:08,180

three flight teams competed in the cafe

70

00:03:12,910 --> 00:03:10,430

green flight challenge for the title of

71

00:03:15,789 --> 00:03:12,920

most fuel-efficient aircraft in the

72

00:03:19,270 --> 00:03:15,799

world the nasa provided purse for this

73

00:03:22,660 --> 00:03:19,280

accomplishment one point 65 million the

74

00:03:25,660 --> 00:03:22,670

largest aviation prize ever offered the

75

00:03:28,420 --> 00:03:25,670

challenge to fly 200 miles in less than

76
00:03:30,640 --> 00:03:28,430
two hours using less than one gallon of

77
00:03:33,490 --> 00:03:30,650
fuel per occupant or an equivalent

78
00:03:35,440 --> 00:03:33,500
amount of electricity the aircraft

79
00:03:38,250 --> 00:03:35,450
accomplishing this feat with the fastest

80
00:03:40,270 --> 00:03:38,260
time takes home the prize the

81
00:03:41,680 --> 00:03:40,280
transportation industry is definitely

82
00:03:43,210 --> 00:03:41,690
heading towards electric propulsion

83
00:03:44,470 --> 00:03:43,220
systems if you look at the automotive

84
00:03:46,240 --> 00:03:44,480
industry it's already heading that way

85
00:03:48,160 --> 00:03:46,250
and now aviation is finally catching up

86
00:03:50,380 --> 00:03:48,170
and moving in that direction this green

87
00:03:52,569 --> 00:03:50,390
fly challenge saw for the first time a

88
00:03:56,020 --> 00:03:52,579

full scale electric powered aircraft

89

00:03:58,569 --> 00:03:56,030

flown in competition the first four seat

90

00:04:00,670 --> 00:03:58,579

electric aircraft ever to fly and the

91

00:04:03,699 --> 00:04:00,680

largest battery pack developed for

92

00:04:06,129 --> 00:04:03,709

flight vehicle one of five current NASA

93

00:04:07,870 --> 00:04:06,139

Centennial Challenges the green flight

94

00:04:10,150 --> 00:04:07,880

challenge was developed to advance

95

00:04:12,580 --> 00:04:10,160

technologies in fuel efficiency and

96

00:04:17,589 --> 00:04:12,590

reduced emissions with cleaner renewable

97

00:04:19,960 --> 00:04:17,599

fuels and electric aircraft progress

98

00:04:21,789 --> 00:04:19,970

continues on NASA's next great space

99

00:04:24,760 --> 00:04:21,799

observatory the James Webb Space

100

00:04:26,830 --> 00:04:24,770

Telescope it's mirrors were recently

101
00:04:29,170 --> 00:04:26,840
coated with the microscopically thin

102
00:04:31,810 --> 00:04:29,180
layer of gold which will allow the

103
00:04:35,350 --> 00:04:31,820
telescope to see extremely faint objects

104
00:04:38,379 --> 00:04:35,360
in infrared light in all the telescopes

105
00:04:42,420 --> 00:04:38,389
beryllium mirrors total 21 each one

106
00:04:44,550 --> 00:04:42,430
coated with about 0.12 ounces of gold as

107
00:04:47,409 --> 00:04:44,560
successor to the Hubble Space Telescope

108
00:04:51,190 --> 00:04:47,419
Webb's mission will be to observe the

109
00:04:59,740 --> 00:04:51,200
most distant objects in the universe

110
00:05:01,660 --> 00:04:59,750
and now centerpieces Moffett Field

111
00:05:04,360 --> 00:05:01,670
played host to a very special visitor

112
00:05:06,520 --> 00:05:04,370
this weekend Air Force One touched down

113
00:05:08,530 --> 00:05:06,530

Sunday evening bringing President Barack

114

00:05:10,750 --> 00:05:08,540

Obama to Silicon Valley to headline a

115

00:05:14,620 --> 00:05:10,760

town hall-style meeting about his jobs

116

00:05:16,840 --> 00:05:14,630

creation legislation after the president

117

00:05:18,940 --> 00:05:16,850

deplaned he was welcomed to the Bay Area

118

00:05:21,070 --> 00:05:18,950

by NASA Ames center director s Pete

119

00:05:24,370 --> 00:05:21,080

worden as well as the mayors of Mountain

120

00:05:26,400 --> 00:05:24,380

View and San Jose NASA Ames is the

121

00:05:28,810 --> 00:05:26,410

operator of the Moffett federal airfield

122

00:05:30,730 --> 00:05:28,820

President Obama then stopped to greet

123

00:05:32,890 --> 00:05:30,740

supporters who came to moffitt to cheer

124

00:05:35,110 --> 00:05:32,900

his arrival before being whisked away by

125

00:05:39,940 --> 00:05:35,120

his motorcade to attend two separate

126
00:05:42,490 --> 00:05:39,950
events less than 24 hours after arriving

127
00:05:44,590 --> 00:05:42,500
the president rhee boarded Air Force One

128
00:05:51,610 --> 00:05:44,600
and departed the Bay Area on his way to

129
00:05:53,410 --> 00:05:51,620
Los Angeles you want pie on for

130
00:05:55,930 --> 00:05:53,420
something that you don't want to hurt

131
00:05:58,420 --> 00:05:55,940
NASA's Wallops Flight Facility conducted

132
00:06:01,720 --> 00:05:58,430
a full-scale mass casualty exercise on

133
00:06:04,270 --> 00:06:01,730
September 28th as a periodic requirement

134
00:06:08,610 --> 00:06:04,280
to test response and procedures to an

135
00:06:11,680 --> 00:06:08,620
aircraft incident we had a p3 aircraft

136
00:06:14,110 --> 00:06:11,690
have an inflated Murchison crash here on

137
00:06:16,840 --> 00:06:14,120
the runway with believe it was 11

138
00:06:18,640 --> 00:06:16,850

personnel on board yet Josiah simulated

139

00:06:21,190 --> 00:06:18,650

the crash of an aircraft on wallet

140

00:06:23,500 --> 00:06:21,200

airfield and evaluators routinized

141

00:06:26,110 --> 00:06:23,510

communication response and coordination

142

00:06:28,600 --> 00:06:26,120

between Walt's emergency response staff

143

00:06:31,000 --> 00:06:28,610

local emergency management staff and

144

00:06:32,860 --> 00:06:31,010

local hospitals all the players that in

145

00:06:34,840 --> 00:06:32,870

the mishap response plan for aircraft

146

00:06:38,710 --> 00:06:34,850

miss that response did they participate

147

00:06:41,050 --> 00:06:38,720

and did they do their job as outlined in

148

00:06:43,120 --> 00:06:41,060

the plan there is a strong mutually

149

00:06:44,800 --> 00:06:43,130

supportive relationship with the nearby

150

00:06:47,500 --> 00:06:44,810

communities in wallops flight facility

151
00:06:50,050 --> 00:06:47,510
that is essential for effective incident

152
00:06:51,580 --> 00:06:50,060
response and life-saving measures we

153
00:06:53,140 --> 00:06:51,590
have what we call mutual aid agreement

154
00:06:54,370 --> 00:06:53,150
with the outside departments where if

155
00:06:57,090 --> 00:06:54,380
they need our help because of our

156
00:06:58,740 --> 00:06:57,100
specialized equipment we go help them

157
00:07:00,300 --> 00:06:58,750
and if we need their help mostly for

158
00:07:03,840 --> 00:07:00,310
manpower then they come help us when we

159
00:07:05,430 --> 00:07:03,850
need it for many of you here the shuttle

160
00:07:08,430 --> 00:07:05,440
is you the shuttle is the people that

161
00:07:10,290 --> 00:07:08,440
made it possible more than 300 retirees

162
00:07:12,180 --> 00:07:10,300
and former employees of NASA's Dryden

163
00:07:13,920 --> 00:07:12,190

Flight Research Center in Edwards Air

164

00:07:15,870 --> 00:07:13,930

Force Base and guests joined current

165

00:07:17,940 --> 00:07:15,880

Dryden employees recently at a spatial

166

00:07:20,460 --> 00:07:17,950

tribute luncheon in dryden shuttle

167

00:07:22,320 --> 00:07:20,470

hangar the informal reunion featured

168

00:07:24,300 --> 00:07:22,330

highlights the Dryden support a spatial

169

00:07:26,640 --> 00:07:24,310

development in operations over the years

170

00:07:28,560 --> 00:07:26,650

as outlined by Dryden center director

171

00:07:30,600 --> 00:07:28,570

David McBride without the lifting body

172

00:07:32,970 --> 00:07:30,610

work we did here you know led by Dale

173

00:07:35,340 --> 00:07:32,980

read Milt Thompson there would not be a

174

00:07:37,110 --> 00:07:35,350

shuttle without groundbreaking x-15

175

00:07:39,150 --> 00:07:37,120

flight test flight research work

176

00:07:41,340 --> 00:07:39,160

conducted here at Edwards and it Dryden

177

00:07:43,560 --> 00:07:41,350

there would not be a shuttle without the

178

00:07:45,120 --> 00:07:43,570

debate digital by my wire program that

179

00:07:47,900 --> 00:07:45,130

would not have been a shuttle NASA

180

00:07:50,880 --> 00:07:47,910

astronaut Rick CJ sturckow commander of

181

00:07:53,400 --> 00:07:50,890

sts-128 last shuttle mission to land at

182

00:07:55,650 --> 00:07:53,410

Edwards in September 2009 offered his

183

00:07:58,890 --> 00:07:55,660

personal tribute to those attending I've

184

00:08:00,540 --> 00:07:58,900

had the opportunity to meet many folks

185

00:08:02,610 --> 00:08:00,550

here today who were with the entire

186

00:08:03,960 --> 00:08:02,620

program more than 30 years and all the

187

00:08:06,000 --> 00:08:03,970

way dating back to the approach and

188

00:08:09,720 --> 00:08:06,010

landing test and it's a great honor for

189

00:08:11,850 --> 00:08:09,730

me to hear some of the stories and enjoy

190

00:08:13,580 --> 00:08:11,860

some of the unique moments that you've

191

00:08:15,840 --> 00:08:13,590

been able to share with me today in

192

00:08:17,880 --> 00:08:15,850

pre-recorded video comments nasa

193

00:08:20,070 --> 00:08:17,890

administrator charlie bolden recognized

194

00:08:22,290 --> 00:08:20,080

Dryden and Air Force employees support

195

00:08:24,270 --> 00:08:22,300

of the shuttle program and stressed the

196

00:08:26,670 --> 00:08:24,280

agency's commitment to human exploration

197

00:08:29,220 --> 00:08:26,680

of space we will continue the grand

198

00:08:32,130 --> 00:08:29,230

tradition of exploration the future

199

00:08:34,830 --> 00:08:32,140

belongs to us and just as those who came

200

00:08:37,110 --> 00:08:34,840

before us did we have an obligation to

201
00:08:40,350 --> 00:08:37,120
set an ambitious course and take an

202
00:08:44,019 --> 00:08:40,360
inspired nation along for the journey

203
00:08:46,900 --> 00:08:44,029
I'm Rosa Diaz and I work a summation

204
00:08:49,059 --> 00:08:46,910
system scientists at Space Telescope

205
00:08:52,720 --> 00:08:49,069
Science Institute in Baltimore Maryland

206
00:08:56,040 --> 00:08:52,730
I'm in here to support scientists from

207
00:08:58,900 --> 00:08:56,050
all over the world so they can do

208
00:09:03,340 --> 00:08:58,910
astronomy they can do science using

209
00:09:07,090 --> 00:09:03,350
Hubble trying to understand how galaxies

210
00:09:11,050 --> 00:09:07,100
form how stars form what was beyond

211
00:09:16,030 --> 00:09:11,060
things that we could see motivated me to

212
00:09:17,679 --> 00:09:16,040
go and study astronomy I have been

213
00:09:20,100 --> 00:09:17,689

involved you see that each with a

214

00:09:25,749 --> 00:09:20,110

combination of this trying to bring

215

00:09:31,720 --> 00:09:25,759

astronomy to kids talking to them about

216

00:09:35,559 --> 00:09:31,730

what it takes to do science while I love

217

00:09:42,160 --> 00:09:35,569

being an astronomer I also love being a

218

00:09:46,420 --> 00:09:42,170

mom I want them to be able to achieve in

219

00:09:49,689 --> 00:09:46,430

life whatever they want I wanted to I

220

00:09:55,329 --> 00:09:49,699

study in la universidad autónoma de

221

00:09:58,629 --> 00:09:55,339

mexico in mexico city showing that Venus

222

00:10:01,059 --> 00:09:58,639

panic you can achieve that goal I mean

223

00:10:06,509 --> 00:10:01,069

seeing other people that they relate

224

00:10:11,889 --> 00:10:06,519

with because of their background it is

225

00:10:14,079 --> 00:10:11,899

motivating for them three members of the

226

00:10:17,319 --> 00:10:14,089

last space shuttle crew Chris Ferguson

227

00:10:19,389 --> 00:10:17,329

Doug Hurley and sandy Magnus visited the

228

00:10:21,990 --> 00:10:19,399

Glenn Research Center to present video

229

00:10:25,240 --> 00:10:22,000

highlights from their sts-135 mission

230

00:10:26,740 --> 00:10:25,250

aboard space shuttle atlantis atlantis

231

00:10:29,199 --> 00:10:26,750

made its final visit to the

232

00:10:31,600 --> 00:10:29,209

International Space Station in July the

233

00:10:33,939 --> 00:10:31,610

three astronauts also participated in a

234

00:10:36,450 --> 00:10:33,949

Q&A session with Glenn employees and

235

00:10:40,080 --> 00:10:36,460

their families do you comment on

236

00:10:41,820 --> 00:10:40,090

the commercial industry taking on in a

237

00:10:43,470 --> 00:10:41,830

space flight we lay the groundwork for

238

00:10:45,930 --> 00:10:43,480

aviation that eventually turned into a

239

00:10:49,440 --> 00:10:45,940

you know a blossoming commercial

240

00:10:50,940 --> 00:10:49,450

aviation you know industry and you know

241

00:10:53,310 --> 00:10:50,950

did we lay the foundation for what's

242

00:10:55,260 --> 00:10:53,320

about to become a blossoming you know

243

00:10:57,270 --> 00:10:55,270

spaceflight industry I don't know but

244

00:11:00,810 --> 00:10:57,280

we're going to find out landing gear

245

00:11:03,240 --> 00:11:00,820

down and locked sts-135 was the final

246

00:11:05,220 --> 00:11:03,250

chapter in the space shuttle programs 30

247

00:11:07,050 --> 00:11:05,230

year history the hardest things for me

248

00:11:09,750 --> 00:11:07,060

on this mission was actually leaving the

249

00:11:11,490 --> 00:11:09,760

space station that last time when we

250

00:11:13,140 --> 00:11:11,500

were undocking Psychlo I don't know if I

251

00:11:15,240 --> 00:11:13,150

ever get to see this again and it was

252

00:11:17,700 --> 00:11:15,250

really hard to leave and that's this