



1
00:00:12,629 --> 00:00:10,549
this week at nasa

2
00:00:14,870 --> 00:00:12,639
the three new members of the expedition

3
00:00:16,790 --> 00:00:14,880
27 crew are busy making the

4
00:00:19,590 --> 00:00:16,800
international space station their new

5
00:00:22,310 --> 00:00:19,600
home for the next five months flight

6
00:00:24,870 --> 00:00:22,320
engineers alexander sama kutiev andre

7
00:00:27,269 --> 00:00:24,880
brejenko and ron garan arrived at the

8
00:00:29,109 --> 00:00:27,279
station in their soyuz spacecraft

9
00:00:32,150 --> 00:00:29,119
following a successful journey from the

10
00:00:34,470 --> 00:00:32,160
baikonur cosmodrome in kazakhstan

11
00:00:36,310 --> 00:00:34,480
the craft dubbed the gagarin for yuri

12
00:00:38,869 --> 00:00:36,320
gagarin who became the first human in

13
00:00:40,630 --> 00:00:38,879

space 50 years ago this week

14

00:00:43,590 --> 00:00:40,640

docked to the poisk module on the

15

00:00:46,470 --> 00:00:43,600

space-facing side of the russian segment

16

00:00:49,190 --> 00:00:46,480

the trio joined expedition 27 commander

17

00:00:52,150 --> 00:00:49,200

dmitry kandrakiev and flight engineers

18

00:00:54,229 --> 00:00:52,160

katie coleman and paolo nespoli

19

00:00:56,150 --> 00:00:54,239

the six will continue research into the

20

00:00:59,830 --> 00:00:56,160

effects of microgravity on the human

21

00:01:01,830 --> 00:00:59,840

body biology physics and materials now

22

00:01:03,430 --> 00:01:01,840

that we have the major construction done

23

00:01:05,830 --> 00:01:03,440

we are in the utilization phase of the

24

00:01:07,910 --> 00:01:05,840

space station so we are doing on the

25

00:01:10,149 --> 00:01:07,920

space station now what it was designed

26

00:01:12,230 --> 00:01:10,159

to do and that's cutting edge science

27

00:01:17,109 --> 00:01:12,240

cutting edge research and opening up you

28

00:01:21,990 --> 00:01:18,870

nasa managers will hold a flight

29

00:01:24,310 --> 00:01:22,000

readiness review on tuesday april 19th

30

00:01:26,749 --> 00:01:24,320

to assess the team's ability to support

31

00:01:28,390 --> 00:01:26,759

launch of space shuttle endeavour on

32

00:01:31,270 --> 00:01:28,400

sts-134

33

00:01:33,109 --> 00:01:31,280

barring unforeseen issues the fr is

34

00:01:35,030 --> 00:01:33,119

expected to conclude with the selection

35

00:01:35,910 --> 00:01:35,040

of an official launch date for the

36

00:01:37,990 --> 00:01:35,920

mission

37

00:01:40,950 --> 00:01:38,000

endeavors liftoff from the kennedy space

38

00:01:45,510 --> 00:01:40,960

center is targeted for april 29th at 3

39

00:01:48,069 --> 00:01:45,520

47 pm eastern the sts-134 crew will have

40

00:01:49,910 --> 00:01:48,079

among its members astronaut mike fink

41

00:01:52,230 --> 00:01:49,920

who returns to the international space

42

00:01:54,550 --> 00:01:52,240

station after living there for a year's

43

00:01:57,109 --> 00:01:54,560

time on two previous missions

44

00:01:59,190 --> 00:01:57,119

a veteran of two soyuz flights this will

45

00:02:01,109 --> 00:01:59,200

be the pittsburgh native's first flight

46

00:02:04,149 --> 00:02:01,119

on a shuttle my job on the on the

47

00:02:06,310 --> 00:02:04,159

mission is to be first and foremost ms-1

48

00:02:08,869 --> 00:02:06,320

what does ms1 mean mission specialist

49

00:02:11,589 --> 00:02:08,879

number one i sit up on the flight deck

50

00:02:14,470 --> 00:02:11,599

in the cockpit and help with launching

51

00:02:16,390 --> 00:02:14,480

and landing of this complex

52

00:02:18,550 --> 00:02:16,400

aerospace vehicle it's really amazing

53

00:02:19,910 --> 00:02:18,560

what the shuttle can do so i like to

54

00:02:22,229 --> 00:02:19,920

think that some of the skills that i

55

00:02:24,869 --> 00:02:22,239

learned in flying as a flight engineer

56

00:02:28,070 --> 00:02:24,879

in the soyuz i'm helping my shuttle

57

00:02:31,350 --> 00:02:29,270

for a suit

58

00:02:33,030 --> 00:02:31,360

nasa headquarters welcomed students from

59

00:02:36,229 --> 00:02:33,040

maryland school for the blind in

60

00:02:39,430 --> 00:02:36,239

baltimore to disability mentoring day

61

00:02:41,750 --> 00:02:39,440

the students ages 12 to 15 rotated

62

00:02:43,750 --> 00:02:41,760

through several stations exploring and

63

00:02:45,910 --> 00:02:43,760

learning through touch about the space

64

00:02:49,110 --> 00:02:45,920

shuttle the hubble space telescope the

65

00:02:50,949 --> 00:02:49,120

mars rovers and other nasa programs they

66

00:02:54,070 --> 00:02:50,959

also met and chatted with nasa

67

00:02:56,630 --> 00:02:54,080

scientists and engineers

68

00:02:59,350 --> 00:02:56,640

the annual event encourages students to

69

00:03:01,670 --> 00:02:59,360

strive for success and consider careers

70

00:03:05,589 --> 00:03:01,680

in the fields of science technology

71

00:03:10,790 --> 00:03:07,990

inside the jet propulsion laboratory's

72

00:03:13,270 --> 00:03:10,800

spacecraft assembly facility news media

73

00:03:16,070 --> 00:03:13,280

don special clean room garments for a

74

00:03:19,270 --> 00:03:16,080

close-up look at nasa's next mars rover

75

00:03:21,030 --> 00:03:19,280

curiosity we're looking to see if there

76
00:03:23,030 --> 00:03:21,040
is any evidence that there was ever life

77
00:03:24,869 --> 00:03:23,040
there maybe there still is

78
00:03:26,149 --> 00:03:24,879
so we don't want to take something to

79
00:03:28,149 --> 00:03:26,159
mars with us

80
00:03:29,190 --> 00:03:28,159
and then discover something only to

81
00:03:31,110 --> 00:03:29,200
realize that it didn't actually come

82
00:03:33,190 --> 00:03:31,120
from mars we brought it with us so we're

83
00:03:35,350 --> 00:03:33,200
trying to keep everything as clean as we

84
00:03:36,869 --> 00:03:35,360
possibly can this is the most assembled

85
00:03:39,270 --> 00:03:36,879
the press has ever seen this vehicle

86
00:03:41,910 --> 00:03:39,280
it's got the arm the remote sensing mask

87
00:03:44,309 --> 00:03:41,920
the mobility system this is a completely

88
00:03:46,789 --> 00:03:44,319

assembled mars rover the rover recently

89

00:03:48,630 --> 00:03:46,799

completed tests under simulated space

90

00:03:50,789 --> 00:03:48,640

and mars surface environmental

91

00:03:52,949 --> 00:03:50,799

conditions the mission spacecraft

92

00:03:54,550 --> 00:03:52,959

including the rover and other components

93

00:03:56,630 --> 00:03:54,560

will be shipped to the kennedy space

94

00:03:58,550 --> 00:03:56,640

center in may and june

95

00:04:00,390 --> 00:03:58,560

launch of the mars science laboratory

96

00:04:03,670 --> 00:04:00,400

and curiosity is scheduled between

97

00:04:06,630 --> 00:04:03,680

november 25th and december 18th with the

98

00:04:08,550 --> 00:04:06,640

landing on the red planet in 2012.

99

00:04:11,030 --> 00:04:08,560

the mission will investigate whether one

100

00:04:13,030 --> 00:04:11,040

of mars most intriguing areas has

101
00:04:18,229 --> 00:04:13,040
conditions that are or have been

102
00:04:22,790 --> 00:04:20,550
i know many were deeply

103
00:04:25,430 --> 00:04:22,800
and personally affected by the news and

104
00:04:27,590 --> 00:04:25,440
the of the tragic shooting in tucson a

105
00:04:29,510 --> 00:04:27,600
couple months ago goddard space flight

106
00:04:31,990 --> 00:04:29,520
center employees joined with the

107
00:04:34,550 --> 00:04:32,000
american red cross to kick off the

108
00:04:37,030 --> 00:04:34,560
gabrielle giffords honorary save a life

109
00:04:39,830 --> 00:04:37,040
campaign the quick action by a member of

110
00:04:42,390 --> 00:04:39,840
her staff played an enormously important

111
00:04:44,550 --> 00:04:42,400
role in saving her life we never know

112
00:04:46,790 --> 00:04:44,560
when we might be called on

113
00:04:48,629 --> 00:04:46,800

to react in a similar manner

114

00:04:50,710 --> 00:04:48,639

part of a nationwide effort that

115

00:04:53,430 --> 00:04:50,720

encompassed a hundred locations around

116

00:04:56,390 --> 00:04:53,440

the country the event included red cross

117

00:04:58,790 --> 00:04:56,400

training for basic hands-only cpr and

118

00:05:01,830 --> 00:04:58,800

demonstrations on how to treat shock and

119

00:05:03,110 --> 00:05:01,840

dress wounds the lesson of tucson

120

00:05:06,629 --> 00:05:03,120

is simple

121

00:05:08,870 --> 00:05:06,639

we can all make a difference

122

00:05:10,870 --> 00:05:08,880

in saving other people's lives

123

00:05:13,270 --> 00:05:10,880

congresswoman giffords continues to

124

00:05:15,749 --> 00:05:13,280

recover from a serious gunshot wound

125

00:05:18,070 --> 00:05:15,759

suffered in january in tucson

126

00:05:21,029 --> 00:05:18,080

many have said her continued recovery is

127

00:05:22,950 --> 00:05:21,039

due in no small part to the life-saving

128

00:05:24,950 --> 00:05:22,960

efforts implemented immediately

129

00:05:27,909 --> 00:05:24,960

following the incident

130

00:05:31,110 --> 00:05:27,919

giffords is married to sts-134 commander

131

00:05:31,120 --> 00:05:35,029

and now centerpieces

132

00:05:39,189 --> 00:05:36,790

more than 800 students in college

133

00:05:41,670 --> 00:05:39,199

station texas celebrated the end of six

134

00:05:43,350 --> 00:05:41,680

weeks of training as part of mission x

135

00:05:45,110 --> 00:05:43,360

train like an astronaut

136

00:05:47,110 --> 00:05:45,120

as part of the activities the students

137

00:05:49,350 --> 00:05:47,120

heard from astronauts rick linehan and

138

00:05:51,990 --> 00:05:49,360

Ieland melvin who is now nasa's

139

00:05:54,390 --> 00:05:52,000

associate administrator for education

140

00:05:57,110 --> 00:05:54,400

mission x involved almost 4 000 students

141

00:05:59,350 --> 00:05:57,120

in 25 cities worldwide and promoted

142

00:06:01,029 --> 00:05:59,360

healthy nutrition and fitness

143

00:06:02,870 --> 00:06:01,039

linehan and melvin talked with the

144

00:06:05,270 --> 00:06:02,880

students about the importance of staying

145

00:06:07,590 --> 00:06:05,280

healthy studying hard and working in

146

00:06:09,749 --> 00:06:07,600

teams and of course listening to your

147

00:06:11,590 --> 00:06:09,759

teachers i also talked about what made

148

00:06:17,749 --> 00:06:11,600

them want to become astronauts and what

149

00:06:17,759 --> 00:06:25,830

get ready

150

00:06:30,550 --> 00:06:28,390

nearly 70 high school and college teams

151
00:06:32,870 --> 00:06:30,560
throughout the united states puerto rico

152
00:06:34,550 --> 00:06:32,880
canada germany india and russia

153
00:06:36,870 --> 00:06:34,560
descended on the u.s space and rocket

154
00:06:39,350 --> 00:06:36,880
center in huntsville alabama april 1st

155
00:06:41,830 --> 00:06:39,360
and 2nd for the 18th annual nasa great

156
00:06:43,670 --> 00:06:41,840
moon buggy race the event hosted by the

157
00:06:45,909 --> 00:06:43,680
marshall space flight center encourages

158
00:06:48,629 --> 00:06:45,919
young people to reach for new heights in

159
00:06:50,870 --> 00:06:48,639
science technology engineering and math

160
00:06:53,110 --> 00:06:50,880
and pursue careers in technical fields

161
00:06:55,830 --> 00:06:53,120
that will benefit nasa the nation and

162
00:06:58,150 --> 00:06:55,840
all humankind students are challenged to

163
00:06:59,670 --> 00:06:58,160

build and race lightweight human-powered

164

00:07:01,749 --> 00:06:59,680

buggies demonstrating the same

165

00:07:03,909 --> 00:07:01,759

innovation and can-do spirit that put

166

00:07:06,469 --> 00:07:03,919

the first apollo era lunar rover on the

167

00:07:07,909 --> 00:07:06,479

moon four decades ago we all had our own

168

00:07:09,350 --> 00:07:07,919

ideas and we all thought we knew what

169

00:07:11,270 --> 00:07:09,360

would work best and we tried to

170

00:07:13,110 --> 00:07:11,280

incorporate it all together but in the

171

00:07:15,189 --> 00:07:13,120

end after testing it we had some minor

172

00:07:17,110 --> 00:07:15,199

flaws like the back axle bent and we had

173

00:07:18,629 --> 00:07:17,120

to go back and fix it so

174

00:07:20,150 --> 00:07:18,639

we had a few minor bumps that we had to

175

00:07:21,909 --> 00:07:20,160

go over through but

176

00:07:23,749 --> 00:07:21,919

overall it worked pretty well

177

00:07:25,749 --> 00:07:23,759

participation in the race has increased

178

00:07:28,550 --> 00:07:25,759

annually from just eight college teams

179

00:07:31,430 --> 00:07:28,560

in 1994 to more than 80 at this year's

180

00:07:33,589 --> 00:07:31,440

event

181

00:07:35,589 --> 00:07:33,599

this year marks the 40th anniversary of

182

00:07:37,510 --> 00:07:35,599

the use of the lunar roving vehicle on

183

00:07:39,110 --> 00:07:37,520

the surface of the moon and the marshall

184

00:07:41,029 --> 00:07:39,120

space flight center team along with

185

00:07:42,950 --> 00:07:41,039

apollo astronauts charlie duke and

186

00:07:44,390 --> 00:07:42,960

harrison schmidt helped celebrate the

187

00:07:46,150 --> 00:07:44,400

historic feat

188

00:07:48,710 --> 00:07:46,160

to help commemorate the event more than

189

00:07:50,309 --> 00:07:48,720

300 great moon buggy racers mingled with

190

00:07:52,790 --> 00:07:50,319

the engineers who worked on the program

191

00:07:55,110 --> 00:07:52,800

in the 1960s and whose ingenuity and

192

00:07:57,189 --> 00:07:55,120

determination helped to inspire this

193

00:08:00,150 --> 00:07:57,199

popular student competition the

194

00:08:01,189 --> 00:08:00,160

opportunity to do those wonderful things

195

00:08:03,350 --> 00:08:01,199

really

196

00:08:06,950 --> 00:08:03,360

came because

197

00:08:08,629 --> 00:08:06,960

of some 450 000 americans that decided

198

00:08:09,670 --> 00:08:08,639

that this was the most important thing

199

00:08:10,869 --> 00:08:09,680

that they were going to do with their

200

00:08:12,469 --> 00:08:10,879

lives

201
00:08:15,110 --> 00:08:12,479
and when young men and women

202
00:08:17,589 --> 00:08:15,120
like most of you believe that you can do

203
00:08:18,950 --> 00:08:17,599
anything and i congratulate uh all of

204
00:08:21,270 --> 00:08:18,960
you for

205
00:08:23,830 --> 00:08:21,280
already having taken steps that are

206
00:08:27,909 --> 00:08:23,840
going to make you something special in

207
00:08:30,230 --> 00:08:27,919
just 17 months between 1969 and 1971 the

208
00:08:32,870 --> 00:08:30,240
nasa industry team finalized the lunar

209
00:08:34,630 --> 00:08:32,880
roving vehicle's design built and tested

210
00:08:36,709 --> 00:08:34,640
it at the marshall space flight center

211
00:08:38,870 --> 00:08:36,719
and partner facilities and sent it to

212
00:08:41,509 --> 00:08:38,880
the moon as a key element of the apollo

213
00:08:43,589 --> 00:08:41,519

15 mission for three days beginning july

214

00:08:46,310 --> 00:08:43,599

31 1971

215

00:08:47,990 --> 00:08:46,320

astronauts david scott and james irwin

216

00:08:50,630 --> 00:08:48,000

guided the rover across the lunar

217

00:08:55,990 --> 00:08:50,640

surface dramatically expanding nasa's

218

00:09:02,870 --> 00:09:00,790

41 years ago this week on april 11 1970

219

00:09:05,430 --> 00:09:02,880

apollo 13 launched from the kennedy

220

00:09:08,070 --> 00:09:05,440

space center on what was supposed to be

221

00:09:10,470 --> 00:09:08,080

nasa's third manned mission to the moon

222

00:09:13,350 --> 00:09:10,480

however commander jim lovell jack

223

00:09:15,670 --> 00:09:13,360

swigert and fred hayes had to abort the

224

00:09:19,670 --> 00:09:15,680

mission after a rupture of the service

225

00:09:23,350 --> 00:09:19,680

module's oxygen tank

226

00:09:27,750 --> 00:09:25,110

since the crew was brought home safely

227

00:09:36,230 --> 00:09:27,760

apollo 13 is considered a successful

228

00:09:43,110 --> 00:09:39,990

and 30 years ago on april 12 1981 the

229

00:09:45,110 --> 00:09:43,120

liftoff of colombia on sts-1 ushered in

230

00:09:47,590 --> 00:09:45,120

nasa's space shuttle era

231

00:09:50,230 --> 00:09:47,600

astronauts john young and bob crippen

232

00:09:52,389 --> 00:09:50,240

made 37 orbits on the two-day mission

233

00:09:54,550 --> 00:09:52,399

that successfully tested all major

234

00:09:56,949 --> 00:09:54,560

systems of the new orbiter

235

00:09:59,110 --> 00:09:56,959

upon columbia's safe return it was

236

00:10:01,430 --> 00:09:59,120

discovered that 16 tiles from the

237

00:10:05,269 --> 00:10:01,440

orbiter's thermal protection system had

238

00:10:07,350 --> 00:10:05,279

been lost with another 148 tiles damage

239

00:10:09,670 --> 00:10:07,360

the problem was solved by modifications

240

00:10:11,990 --> 00:10:09,680

to suppress sound waves caused by the

241

00:10:13,829 --> 00:10:12,000

shuttle solid rocket boosters

242

00:10:16,470 --> 00:10:13,839

this first flight of the space shuttle

243

00:10:19,910 --> 00:10:16,480

came 20 years to the day after yuri

244

00:10:22,150 --> 00:10:19,920

gagarin in 1961 became the first human

245

00:10:25,110 --> 00:10:22,160

to travel into space

246

00:10:27,750 --> 00:10:25,120

and that's this week at nasa for more on