



1
00:00:07,120 --> 00:00:12,709
this week at nasa

2
00:00:16,870 --> 00:00:15,270
in space flight history the date april

3
00:00:20,230 --> 00:00:16,880
12th is special

4
00:00:23,269 --> 00:00:20,240
on that day in 1981 the first shuttle

5
00:00:25,269 --> 00:00:23,279
mission sts-1 began with the launch of

6
00:00:26,470 --> 00:00:25,279
columbia from the kennedy space center

7
00:00:28,310 --> 00:00:26,480
in florida

8
00:00:30,230 --> 00:00:28,320
administrator charles bolden led a

9
00:00:32,470 --> 00:00:30,240
commemorative program at kennedy to

10
00:00:34,709 --> 00:00:32,480
honor the space shuttle's workforce for

11
00:00:37,990 --> 00:00:34,719
its invaluable contributions to space

12
00:00:39,990 --> 00:00:38,000
exploration over the past 30 years i

13
00:00:41,270 --> 00:00:40,000

want to thank each and every one of you

14

00:00:42,709 --> 00:00:41,280

and the many others in the shuttle

15

00:00:44,709 --> 00:00:42,719

workforce over the years for your

16

00:00:46,150 --> 00:00:44,719

significant contribution

17

00:00:48,069 --> 00:00:46,160

to this tremendous american

18

00:00:49,990 --> 00:00:48,079

accomplishment you've inspired a

19

00:00:52,470 --> 00:00:50,000

generation helped make the world a

20

00:00:54,549 --> 00:00:52,480

better place and given us a road map for

21

00:00:57,110 --> 00:00:54,559

future space exploration

22

00:00:59,590 --> 00:00:57,120

bolden also announced the four locations

23

00:01:03,110 --> 00:00:59,600

at which the orbiters atlantis

24

00:01:05,189 --> 00:01:03,120

discovery endeavor and enterprise will

25

00:01:09,190 --> 00:01:05,199

spend their retirement on permanent

26

00:01:13,590 --> 00:01:11,750

the ceremony also featured astronaut bob

27

00:01:16,950 --> 00:01:13,600

crippen a veteran of four shuttle

28

00:01:19,429 --> 00:01:16,960

missions including the first sts-1 when

29

00:01:21,749 --> 00:01:19,439

the count passed one minute

30

00:01:23,510 --> 00:01:21,759

i turned to john and i said i think we

31

00:01:24,870 --> 00:01:23,520

might do it

32

00:01:27,190 --> 00:01:24,880

that's when my heart rate went up to

33

00:01:29,350 --> 00:01:27,200

about 130.

34

00:01:32,789 --> 00:01:29,360

john's was down in a nice calm 90 and

35

00:01:38,310 --> 00:01:32,799

i'm i'm surprised i didn't go faster

36

00:01:43,109 --> 00:01:40,630

april 12th is also the date on which

37

00:01:46,230 --> 00:01:43,119

cosmonaut yuri gagarin became the first

38

00:01:48,550 --> 00:01:46,240

human in space in 1961.

39

00:01:50,630 --> 00:01:48,560

nasa dignitaries helped mark the gagarin

40

00:01:52,630 --> 00:01:50,640

space flight's 50th anniversary at

41

00:01:54,550 --> 00:01:52,640

several events in russia

42

00:01:56,870 --> 00:01:54,560

international space officials gathered

43

00:01:59,030 --> 00:01:56,880

in moscow for a gala at the memorial

44

00:02:01,270 --> 00:01:59,040

museum of cosmonautics

45

00:02:03,990 --> 00:02:01,280

among the attendees were retired nasa

46

00:02:06,149 --> 00:02:04,000

astronaut tom stafford and soviet-era

47

00:02:09,029 --> 00:02:06,159

cosmonaut alexa eleanor

48

00:02:10,949 --> 00:02:09,039

they remain close friends more than 35

49

00:02:13,750 --> 00:02:10,959

years after serving together on the

50

00:02:15,910 --> 00:02:13,760

apollo soyuz test project the first

51
00:02:18,630 --> 00:02:15,920
joint mission between the one-time cold

52
00:02:21,270 --> 00:02:18,640
war adversaries

53
00:02:23,510 --> 00:02:21,280
also in moscow a golden anniversary

54
00:02:26,229 --> 00:02:23,520
extravaganza was staged at the grand

55
00:02:28,150 --> 00:02:26,239
kremlin palace

56
00:02:30,390 --> 00:02:28,160
and the week's highlights culminated

57
00:02:32,630 --> 00:02:30,400
with a gala attended by bolden at the

58
00:02:36,550 --> 00:02:32,640
home of the u.s ambassador to russia

59
00:02:41,830 --> 00:02:39,110
one final anniversary note

60
00:02:44,390 --> 00:02:41,840
nasa astronaut and avid amateur musician

61
00:02:46,790 --> 00:02:44,400
katie coleman blended the melodic sounds

62
00:02:49,350 --> 00:02:46,800
of her flute with adam musician ian

63
00:02:52,229 --> 00:02:49,360

anderson founder of the rock band jethro

64

00:02:54,869 --> 00:02:52,239

top honoring the achievements of the day

65

00:02:57,670 --> 00:02:54,879

the pair collaborated on the first space

66

00:03:00,470 --> 00:02:57,680

earth duet coleman and anderson played a

67

00:03:04,229 --> 00:03:00,480

portion of beret a song that jethro told

68

00:03:06,550 --> 00:03:04,239

played during its 1969 u.s tour as neil

69

00:03:12,550 --> 00:03:06,560

armstrong and buzz aldrin stepped onto

70

00:03:17,270 --> 00:03:15,110

more than 7 000 students gathered at the

71

00:03:19,830 --> 00:03:17,280

ames research center to celebrate yuri

72

00:03:22,070 --> 00:03:19,840

gagarin's historic journey into space

73

00:03:24,710 --> 00:03:22,080

the 4th through 12th graders engaged in

74

00:03:26,869 --> 00:03:24,720

hands-on learning activities explored

75

00:03:29,270 --> 00:03:26,879

interactive exhibits and talked with

76

00:03:32,470 --> 00:03:29,280

scientists engineers and technology

77

00:03:35,270 --> 00:03:32,480

experts they built and launched rockets

78

00:03:37,670 --> 00:03:35,280

drove a replica of a mars rover and

79

00:03:42,710 --> 00:03:37,680

played instructional games designed to

80

00:03:47,430 --> 00:03:44,710

the nameplate says it all mission

81

00:03:49,509 --> 00:03:47,440

control in houston is now known as the

82

00:03:51,670 --> 00:03:49,519

christopher seacraft junior mission

83

00:03:53,509 --> 00:03:51,680

control center the building's new

84

00:03:56,070 --> 00:03:53,519

nameplate was unveiled at a johnson

85

00:03:58,550 --> 00:03:56,080

space center ceremony in honor of chris

86

00:04:02,309 --> 00:03:58,560

craft america's first human space

87

00:04:05,030 --> 00:04:02,319

mission flight director our experiences

88

00:04:06,789 --> 00:04:05,040

our joys

89

00:04:10,070 --> 00:04:06,799

were something that we were all

90

00:04:12,390 --> 00:04:10,080

extremely proud of we still are today

91

00:04:14,390 --> 00:04:12,400

kraft was recognized by nasa for his

92

00:04:15,509 --> 00:04:14,400

service to the nation and its space

93

00:04:18,150 --> 00:04:15,519

programs

94

00:04:21,189 --> 00:04:18,160

as flight director he managed all of the

95

00:04:23,270 --> 00:04:21,199

mercury and several gemini missions and

96

00:04:25,670 --> 00:04:23,280

was in that role for america's first

97

00:04:28,870 --> 00:04:25,680

human space flight first human orbital

98

00:04:30,629 --> 00:04:28,880

flight and first spacewalk kraft was

99

00:04:32,390 --> 00:04:30,639

also one of the designers and

100

00:04:35,030 --> 00:04:32,400

implementers of the mission control

101
00:04:37,670 --> 00:04:35,040
center the heart of all nasa crewed

102
00:04:40,070 --> 00:04:37,680
space missions i don't think

103
00:04:43,270 --> 00:04:40,080
any of us appreciated

104
00:04:45,350 --> 00:04:43,280
what we were up to where we were going

105
00:04:48,150 --> 00:04:45,360
what it was going to result in

106
00:04:51,270 --> 00:04:48,160
the impact on the country

107
00:04:56,390 --> 00:04:54,469
a scientific research park on the moon

108
00:04:58,070 --> 00:04:56,400
that was the focus of an international

109
00:04:59,430 --> 00:04:58,080
lunar conference held at the ames

110
00:05:01,830 --> 00:04:59,440
research center

111
00:05:03,749 --> 00:05:01,840
organized by the state of hawaii the

112
00:05:06,469 --> 00:05:03,759
workshop gathered pioneering thinkers

113
00:05:08,390 --> 00:05:06,479

from across the u.s to seek new ways

114

00:05:10,550 --> 00:05:08,400

nations can collaborate in space

115

00:05:12,469 --> 00:05:10,560

exploration and development

116

00:05:14,710 --> 00:05:12,479

discussions centered on building a

117

00:05:16,550 --> 00:05:14,720

multinational research park on the moon

118

00:05:18,150 --> 00:05:16,560

over the next decade

119

00:05:20,870 --> 00:05:18,160

earth-bound prototypes would be

120

00:05:23,270 --> 00:05:20,880

developed with strong u.s leadership and

121

00:05:24,950 --> 00:05:23,280

operated by a consortium of space-faring

122

00:05:26,550 --> 00:05:24,960

nations through public-private

123

00:05:28,790 --> 00:05:26,560

partnerships

124

00:05:31,270 --> 00:05:28,800

one visionary in attendance nobel

125

00:05:33,189 --> 00:05:31,280

laureate dr baruch bloomberg succumbed

126
00:05:34,629 --> 00:05:33,199
to a heart attack after delivering the

127
00:05:36,710 --> 00:05:34,639
keynote address

128
00:05:38,710 --> 00:05:36,720
blumberg whose groundbreaking work in

129
00:05:41,749 --> 00:05:38,720
medical research has saved millions of

130
00:05:44,230 --> 00:05:41,759
lives died doing what he loved best

131
00:05:50,310 --> 00:05:44,240
helping explore new ways to improve the

132
00:05:57,270 --> 00:05:51,270
three

133
00:06:01,510 --> 00:05:59,670
at the glenn research center four teams

134
00:06:04,390 --> 00:06:01,520
of students conducted experiments in

135
00:06:05,670 --> 00:06:04,400
microgravity using glenn's 2.2 second

136
00:06:08,790 --> 00:06:05,680
drop tower

137
00:06:11,670 --> 00:06:08,800
the science competition called die for

138
00:06:13,830 --> 00:06:11,680

dropping in a microgravity environment

139

00:06:16,390 --> 00:06:13,840

had each team drop test and experiment

140

00:06:17,510 --> 00:06:16,400

in the tower considered a gateway to

141

00:06:19,350 --> 00:06:17,520

space

142

00:06:21,350 --> 00:06:19,360

exploratory testing of many of the

143

00:06:22,950 --> 00:06:21,360

microgravity experiments on the space

144

00:06:25,670 --> 00:06:22,960

shuttle and the international space

145

00:06:27,110 --> 00:06:25,680

station were conducted on earth in the

146

00:06:30,070 --> 00:06:27,120

drop tower

147

00:06:32,469 --> 00:06:30,080

event entries ran the gamut from how hot

148

00:06:35,670 --> 00:06:32,479

is hot enough temperature and capillary

149

00:06:38,230 --> 00:06:35,680

action two the effect of microgravity on

150

00:06:40,070 --> 00:06:38,240

the motion of air bubbles in water

151
00:06:41,909 --> 00:06:40,080
team members hailed from the ransom

152
00:06:44,070 --> 00:06:41,919
everglades school in coconut grove

153
00:06:46,390 --> 00:06:44,080
florida troy high school in troy

154
00:06:49,830 --> 00:06:46,400
michigan the ozaukee high school in

155
00:06:51,830 --> 00:06:49,840
fredonia wisconsin and st ursula academy

156
00:06:53,830 --> 00:06:51,840
in toledo ohio it's been a great

157
00:06:55,430 --> 00:06:53,840
experience working side by side with

158
00:06:58,150 --> 00:06:55,440
engineers having them help us out with

159
00:07:00,469 --> 00:06:58,160
our experiments so it's been great

160
00:07:02,790 --> 00:07:00,479
dime and other educational endeavors of

161
00:07:05,189 --> 00:07:02,800
nasa's teaching from space program

162
00:07:07,670 --> 00:07:05,199
helped the agency attract and retain

163
00:07:09,909 --> 00:07:07,680

students in science technology

164

00:07:11,749 --> 00:07:09,919

engineering and mathematics the stem

165

00:07:15,110 --> 00:07:11,759

disciplines critical to space

166

00:07:19,589 --> 00:07:17,430

nasa and the boy scouts of america have

167

00:07:22,150 --> 00:07:19,599

developed a new robotics merit badge for

168

00:07:24,550 --> 00:07:22,160

the bsa stem based curriculum

169

00:07:26,790 --> 00:07:24,560

to earn the badge scouts will work with

170

00:07:30,150 --> 00:07:26,800

nasa and other professional mentors to

171

00:07:32,710 --> 00:07:30,160

design build and demonstrate how a robot

172

00:07:34,790 --> 00:07:32,720

moves senses the environment and

173

00:07:37,749 --> 00:07:34,800

performs operations

174

00:07:40,629 --> 00:07:37,759

the new badge is one of 31 stem-related

175

00:07:43,189 --> 00:07:40,639

boy scout merit badges

176

00:07:45,430 --> 00:07:43,199

and that's this week at nasa