



1
00:00:05,680 --> 00:00:21,429
beautiful

2
00:00:21,439 --> 00:00:38,650
so

3
00:00:38,660 --> 00:01:20,550
[Music]

4
00:01:20,560 --> 00:02:11,510
this one

5
00:02:11,520 --> 00:02:58,550
okay

6
00:02:58,560 --> 00:03:09,990
in the wrong place

7
00:03:55,830 --> 00:03:31,750
okay

8
00:03:55,840 --> 00:04:01,830
let's go

9
00:04:21,110 --> 00:04:04,690
oh

10
00:04:21,120 --> 00:06:34,100
so

11
00:06:34,110 --> 00:06:38,210
[Music]

12
00:06:38,220 --> 00:06:43,260
[Applause]

13
00:06:43,270 --> 00:06:46,830

[Music]

14

00:06:51,749 --> 00:06:49,990

yeah joel montalbano the deputy iss

15

00:06:53,430 --> 00:06:51,759

program manager here in baikon original

16

00:06:54,790 --> 00:06:53,440

and other soyuz on the pad ready to

17

00:06:57,189 --> 00:06:54,800

launch another crew

18

00:06:58,950 --> 00:06:57,199

in this case two americans launching the

19

00:07:00,870 --> 00:06:58,960

addition of a third nasa astronaut on

20

00:07:03,270 --> 00:07:00,880

board to start a year of that

21

00:07:06,230 --> 00:07:03,280

type of crew compliment how is that

22

00:07:08,870 --> 00:07:06,240

going to increase research and solidify

23

00:07:10,629 --> 00:07:08,880

all the utilization that you expect over

24

00:07:12,150 --> 00:07:10,639

the next year okay well thank you rob

25

00:07:14,710 --> 00:07:12,160

the the additional astronaut is

26

00:07:17,430 --> 00:07:14,720

fantastic this expedition will have

27

00:07:19,110 --> 00:07:17,440

almost 200 experiments with about 50 of

28

00:07:20,950 --> 00:07:19,120

those experiments being new for this

29

00:07:22,950 --> 00:07:20,960

crew and basically what we're doing with

30

00:07:25,029 --> 00:07:22,960

the extra crew time is we're doubling

31

00:07:27,350 --> 00:07:25,039

the amount of crew hands-on utilization

32

00:07:29,430 --> 00:07:27,360

and research so just one person we're

33

00:07:31,589 --> 00:07:29,440

going to be up to almost 70 hours 70

34

00:07:33,510 --> 00:07:31,599

crew hours of hands-on research and

35

00:07:35,430 --> 00:07:33,520

utilization per week average over the

36

00:07:38,150 --> 00:07:35,440

increment it's just an exciting time to

37

00:07:40,150 --> 00:07:38,160

be in the program how complex is this

38

00:07:42,550 --> 00:07:40,160

next six months in orbit going to be for

39

00:07:44,230 --> 00:07:42,560

acaba vanda high and misurkin oh you

40

00:07:46,469 --> 00:07:44,240

know right now with the additional crew

41

00:07:48,150 --> 00:07:46,479

member we continue to hit our stride on

42

00:07:50,309 --> 00:07:48,160

space station and doing more and more

43

00:07:52,230 --> 00:07:50,319

utilization and research and the ability

44

00:07:53,830 --> 00:07:52,240

to do the science do the research get

45

00:07:56,309 --> 00:07:53,840

those results to the scientists on

46

00:07:57,830 --> 00:07:56,319

ground it's just fantastic and and so

47

00:07:59,430 --> 00:07:57,840

we're looking forward to it and we're

48

00:08:01,589 --> 00:07:59,440

just happy to be here

49

00:08:03,430 --> 00:08:01,599

three weeks from now uh

50

00:08:05,430 --> 00:08:03,440

the 60th anniversary of the launch of

51
00:08:08,309 --> 00:08:05,440
sputnik from this very launch pad will

52
00:08:10,790 --> 00:08:08,319
be marked a very significant milestone

53
00:08:12,390 --> 00:08:10,800
in six decades of human space flight

54
00:08:14,550 --> 00:08:12,400
that have evolved since the launch of

55
00:08:17,589 --> 00:08:14,560
sputnik what

56
00:08:19,830 --> 00:08:17,599
how far have we come how far can we go

57
00:08:22,629 --> 00:08:19,840
we've as you know we've come a long way

58
00:08:24,869 --> 00:08:22,639
the ability to fly six people on space

59
00:08:26,550 --> 00:08:24,879
station like we have today is incredible

60
00:08:28,869 --> 00:08:26,560
we see these opportunities that are

61
00:08:30,950 --> 00:08:28,879
presented to us and allow us to do the

62
00:08:33,190 --> 00:08:30,960
utilization allow us to do the research

63
00:08:34,630 --> 00:08:33,200

and to keep moving forward and this is

64

00:08:36,550 --> 00:08:34,640

important as we look forward to

65

00:08:38,149 --> 00:08:36,560

exploration you know eventually space

66

00:08:40,149 --> 00:08:38,159

station will end and we'll have to go

67

00:08:42,389 --> 00:08:40,159

past low-earth orbit and go to system

68

00:08:44,070 --> 00:08:42,399

under space and these days these times

69

00:08:45,910 --> 00:08:44,080

that we've been working on these past 60

70

00:08:48,070 --> 00:08:45,920

years we're taking steps forward to go

71

00:08:50,150 --> 00:08:48,080

make that happen

72

00:08:51,670 --> 00:08:50,160

sean fuller the director of human space

73

00:08:52,829 --> 00:08:51,680

flight programs in russia here in

74

00:08:55,670 --> 00:08:52,839

baikonur

75

00:08:57,509 --> 00:08:55,680

shawn this is the second soyuz launch of

76

00:08:59,829 --> 00:08:57,519

a crew in just seven weeks it's pretty

77

00:09:01,750 --> 00:08:59,839

remarkable when you think about it

78

00:09:04,070 --> 00:09:01,760

let's talk a little bit about the pace

79

00:09:04,870 --> 00:09:04,080

of activity over the past several months

80

00:09:07,509 --> 00:09:04,880

and

81

00:09:09,750 --> 00:09:07,519

what clearly will be an incredibly busy

82

00:09:11,110 --> 00:09:09,760

end of the year for the program yeah rob

83

00:09:12,710 --> 00:09:11,120

it's certainly been a busy year but a

84

00:09:14,310 --> 00:09:12,720

great year we've got three crew members

85

00:09:16,070 --> 00:09:14,320

ready to join their crewmates that are

86

00:09:17,910 --> 00:09:16,080

on orbit now like i said they launched

87

00:09:19,350 --> 00:09:17,920

just seven weeks ago they've been on

88

00:09:21,030 --> 00:09:19,360

orbit doing a lot of research doing a

89

00:09:22,710 --> 00:09:21,040

lot of things to get us ready to explore

90

00:09:24,550 --> 00:09:22,720

beyond low earth orbit with this

91

00:09:26,150 --> 00:09:24,560

addition the crew will continue that

92

00:09:28,230 --> 00:09:26,160

we've seen a lot of visiting vehicles

93

00:09:30,070 --> 00:09:28,240

coming spacex is currently on the space

94

00:09:31,509 --> 00:09:30,080

station we'll be departing here in a

95

00:09:32,870 --> 00:09:31,519

couple weeks we'll be returning back to

96

00:09:34,790 --> 00:09:32,880

earth returning some of that science to

97

00:09:36,710 --> 00:09:34,800

the ground shortly after that we'll have

98

00:09:38,790 --> 00:09:36,720

a progress launching and then we'll have

99

00:09:39,990 --> 00:09:38,800

another spacex in orbit later this year

100

00:09:42,150 --> 00:09:40,000

the crew is also going to be doing some

101
00:09:43,910 --> 00:09:42,160
evas starting early next month as we

102
00:09:45,030 --> 00:09:43,920
prepare the outside and do some

103
00:09:46,949 --> 00:09:45,040
maintenance on the outside of the

104
00:09:48,949 --> 00:09:46,959
station so getting these crew members on

105
00:09:50,389 --> 00:09:48,959
orbit to do that increase our research

106
00:09:52,550 --> 00:09:50,399
we're going to have a fantastic time up

107
00:09:54,710 --> 00:09:52,560
there as we continue what started nearly

108
00:09:56,150 --> 00:09:54,720
17 years ago with the human presence on

109
00:09:58,389 --> 00:09:56,160
the space station

110
00:10:00,230 --> 00:09:58,399
this is the first time since june of

111
00:10:02,310 --> 00:10:00,240
2010 that two americans will be

112
00:10:04,230 --> 00:10:02,320
launching on the soyuz what is the

113
00:10:06,550 --> 00:10:04,240

significance of having three nasa

114

00:10:08,550 --> 00:10:06,560

astronauts on board an expanded u.s

115

00:10:11,430 --> 00:10:08,560

orbital segment crew presence

116

00:10:13,190 --> 00:10:11,440

as you tackle all the tasks ahead yeah

117

00:10:14,710 --> 00:10:13,200

it's great to have that expanded u.s

118

00:10:16,470 --> 00:10:14,720

crew presence on orbit we've got a lot

119

00:10:17,910 --> 00:10:16,480

of research in store for them

120

00:10:20,069 --> 00:10:17,920

this particular crew along with their

121

00:10:21,590 --> 00:10:20,079

crewmates will be conducting over 250

122

00:10:23,190 --> 00:10:21,600

different investigations during their

123

00:10:25,990 --> 00:10:23,200

time on orbit that's going to cover the

124

00:10:27,990 --> 00:10:26,000

gamut of human research biotechnology

125

00:10:29,509 --> 00:10:28,000

earth sciences physical sciences really

126

00:10:31,350 --> 00:10:29,519

cover the spectrum of research that will

127

00:10:33,350 --> 00:10:31,360

benefit not only those of us here on the

128

00:10:35,350 --> 00:10:33,360

ground but it's also technology that'll

129

00:10:37,190 --> 00:10:35,360

be advancing us further into into the

130

00:10:38,790 --> 00:10:37,200

space as we go beyond low earth orbit so

131

00:10:41,030 --> 00:10:38,800

having that additional research we'll be

132

00:10:43,190 --> 00:10:41,040

able to double our research time on the

133

00:10:45,030 --> 00:10:43,200

u.s segment and so this is a really a

134

00:10:46,630 --> 00:10:45,040

fantastic step forward as we look ahead

135

00:10:48,710 --> 00:10:46,640

to commercial crew when we'll

136

00:10:49,670 --> 00:10:48,720

continually have four us os crew members

137

00:10:51,430 --> 00:10:49,680

on orbit

138

00:10:53,990 --> 00:10:51,440

you know we always talk about

139

00:10:55,590 --> 00:10:54,000

this launch pad its history

140

00:10:57,829 --> 00:10:55,600

we always talk about it in regard to

141

00:11:00,470 --> 00:10:57,839

yuri gagarin having launched on this pad

142

00:11:02,710 --> 00:11:00,480

but four years before gagarin was the

143

00:11:05,670 --> 00:11:02,720

launch of sputnik one on october 4th

144

00:11:07,350 --> 00:11:05,680

1957 that started all of this

145

00:11:08,630 --> 00:11:07,360

your thoughts on the significance of

146

00:11:11,030 --> 00:11:08,640

that how far

147

00:11:12,389 --> 00:11:11,040

we as a human race have come in 60 years

148

00:11:14,150 --> 00:11:12,399

yeah i think it's pretty spectacular

149

00:11:16,630 --> 00:11:14,160

like you said 60 years ago we took that

150

00:11:18,389 --> 00:11:16,640

first small step from here today we have

151

00:11:19,990 --> 00:11:18,399

humans living in space and i like to

152

00:11:22,310 --> 00:11:20,000

remind folks that we did start that on

153

00:11:23,750 --> 00:11:22,320

the space station 17 years ago and so

154

00:11:25,590 --> 00:11:23,760

there's a whole generation now that

155

00:11:27,509 --> 00:11:25,600

their life has been with people living

156

00:11:29,750 --> 00:11:27,519

in space we're now living in space and

157

00:11:31,910 --> 00:11:29,760

we'll start venturing farther uh beyond

158

00:11:33,590 --> 00:11:31,920

uh beyond low earth orbit and so we'll

159

00:11:35,509 --> 00:11:33,600

take those next steps just like we did

160

00:11:37,590 --> 00:11:35,519

exploring new worlds here on earth we're