



1
00:00:50,600 --> 00:17:47,690

you do that

2
00:17:53,399 --> 00:17:50,909

mike fossum assistant director for

3
00:17:55,980 --> 00:17:53,409

flight crew operations Mike a year and a

4
00:17:57,810 --> 00:17:55,990

half ago you launched quite a bit warmer

5
00:17:59,789 --> 00:17:57,820

than it is today with the Soyuz in the

6
00:18:01,680 --> 00:17:59,799

background what are your thoughts if you

7
00:18:03,090 --> 00:18:01,690

look at the vehicle here at the pet oh

8
00:18:04,860 --> 00:18:03,100

it's always exciting to be out to the

9
00:18:07,110 --> 00:18:04,870

launch pad my first time to see the

10
00:18:08,909 --> 00:18:07,120

sight was exactly two years ago the

11
00:18:10,850 --> 00:18:08,919

weather was similar to this I think it

12
00:18:13,680 --> 00:18:10,860

was a little bit warmer it's about minus

13
00:18:16,320 --> 00:18:13,690

25 degrees Fahrenheit this morning but

14

00:18:18,510 --> 00:18:16,330

it's exciting to be here it takes years

15

00:18:20,789 --> 00:18:18,520

for a space station crew to get to this

16

00:18:22,769 --> 00:18:20,799

point finally getting to the launch pad

17

00:18:24,960 --> 00:18:22,779

the crew has been in preparation for two

18

00:18:26,580 --> 00:18:24,970

and a half years at this point and now

19

00:18:27,899 --> 00:18:26,590

the rocket has come together and just

20

00:18:30,360 --> 00:18:27,909

rolled out to the pad in the last few

21

00:18:32,700 --> 00:18:30,370

minutes a highly talented crew with a

22

00:18:35,399 --> 00:18:32,710

wide variety of experience about to

23

00:18:36,779 --> 00:18:35,409

launch your thoughts about Rome on Tom

24

00:18:39,360 --> 00:18:36,789

and Chris and what they bring to the

25

00:18:41,760 --> 00:18:39,370

space station well they will be get the

26

00:18:43,260 --> 00:18:41,770

crew back up to a crew of six people of

27

00:18:46,860 --> 00:18:43,270

course we've got three up there right

28

00:18:48,470 --> 00:18:46,870

now these guys are are going up Roman

29

00:18:51,510 --> 00:18:48,480

will be his second long-duration

30

00:18:52,919 --> 00:18:51,520

increment Chris and Tom both help build

31

00:18:55,500 --> 00:18:52,929

the space station and now they're going

32

00:18:57,690 --> 00:18:55,510

to will be taking up residence to go

33

00:18:59,549 --> 00:18:57,700

live there it's a very exciting time for

34

00:19:00,870 --> 00:18:59,559

them it was it's similar for all of us

35

00:19:02,639 --> 00:19:00,880

that have had a part in the space

36

00:19:04,260 --> 00:19:02,649

station program and now it's very

37

00:19:06,960 --> 00:19:04,270

different though to move in to go to

38

00:19:09,360 --> 00:19:06,970

live on the space station to take care

39

00:19:11,220 --> 00:19:09,370

of that station and execute the science

40

00:19:13,230 --> 00:19:11,230

experiment so the many different there's

41

00:19:15,570 --> 00:19:13,240

over 200 different science programs

42

00:19:17,399 --> 00:19:15,580

experiments that are ongoing on the

43

00:19:20,130 --> 00:19:17,409

station and there are very excited about

44

00:19:22,980 --> 00:19:20,140

getting up there and getting to work and

45

00:19:25,289 --> 00:19:22,990

obviously the culmination of a complex

46

00:19:26,010 --> 00:19:25,299

year aboard the International Space

47

00:19:29,220 --> 00:19:26,020

Station

48

00:19:31,919 --> 00:19:29,230

how significant has 2012 them

49

00:19:34,560 --> 00:19:31,929

well 2012 spent been a great year we've

50

00:19:36,299 --> 00:19:34,570

had an astonishing amount of work

51
00:19:39,360 --> 00:19:36,309
accomplished by the crews onboard

52
00:19:41,490 --> 00:19:39,370
the systems have been stable and the the

53
00:19:44,590 --> 00:19:41,500
science experiments have been you know

54
00:19:45,970 --> 00:19:44,600
very rewarding so that there's a

55
00:19:48,790 --> 00:19:45,980
and the number of crews that have been

56
00:19:50,320 --> 00:19:48,800
up there have been just very effective

57
00:19:53,410 --> 00:19:50,330
and efficient and getting a lot of work

58
00:19:55,030 --> 00:19:53,420
done and so it's been a big year at 2012

59
00:19:56,470 --> 00:19:55,040
and I'm just ending it up by getting the

60
00:19:59,260 --> 00:19:56,480
next crew up there get it back up at

61
00:20:00,970 --> 00:19:59,270
full strength bill Gerstenmaier

62
00:20:03,580 --> 00:20:00,980
associate administrator human

63
00:20:07,360 --> 00:20:03,590

exploration operations built it's minus

64

00:20:09,670 --> 00:20:07,370

25 Fahrenheit and unbelievable weather

65

00:20:11,710 --> 00:20:09,680

condition but the Soyuz is ready to go

66

00:20:13,930 --> 00:20:11,720

behind it and the crew your thoughts of

67

00:20:16,240 --> 00:20:13,940

this morning just an amazing

68

00:20:18,430 --> 00:20:16,250

concentration by the crews and the folks

69

00:20:21,100 --> 00:20:18,440

working on the rocket here today you

70

00:20:22,840 --> 00:20:21,110

know that the weather is not very warm

71

00:20:25,120 --> 00:20:22,850

at all and it just takes a lot of

72

00:20:26,830 --> 00:20:25,130

concentration for these guys to think

73

00:20:28,420 --> 00:20:26,840

about what they're doing to stay focused

74

00:20:30,040 --> 00:20:28,430

on their job not get too distracted by

75

00:20:31,750 --> 00:20:30,050

the weather but what a tremendously

76

00:20:33,520 --> 00:20:31,760

professional team here working under

77

00:20:36,280 --> 00:20:33,530

what we'd consider pretty tough

78

00:20:38,800 --> 00:20:36,290

conditions in the u.s. a tremendous

79

00:20:41,230 --> 00:20:38,810

variety of experience ready to launch to

80

00:20:43,330 --> 00:20:41,240

the space station in this three-man crew

81

00:20:45,280 --> 00:20:43,340

that's about to go up what do they bring

82

00:20:47,590 --> 00:20:45,290

to the station at the beginning of the

83

00:20:49,240 --> 00:20:47,600

highly complex input yeah I think if you

84

00:20:51,040 --> 00:20:49,250

know I look at this crew and and I think

85

00:20:52,930 --> 00:20:51,050

what Kevin's done on orbit you know he's

86

00:20:54,730 --> 00:20:52,940

been on orbit with it by himself for a

87

00:20:57,250 --> 00:20:54,740

pretty extended period of time here and

88

00:20:59,530 --> 00:20:57,260

now to get the rest of the crew up there

89

00:21:01,510 --> 00:20:59,540

to get Chris up there and Tom and Roman

90

00:21:03,760 --> 00:21:01,520

and get back to six-person crew will be

91

00:21:06,070 --> 00:21:03,770

tremendously helpful to the station and

92

00:21:07,630 --> 00:21:06,080

get us back doing activities like you

93

00:21:12,700 --> 00:21:07,640

said many things are planned to progress

94

00:21:15,070 --> 00:21:12,710

launch another SpaceX launch a ATV

95

00:21:17,200 --> 00:21:15,080

coming up so a pretty busy increment for

96

00:21:18,610 --> 00:21:17,210

the crew overall I think it's really

97

00:21:20,170 --> 00:21:18,620

exciting when you look at the research

98

00:21:21,520 --> 00:21:20,180

that's going on board station you know

99

00:21:25,000 --> 00:21:21,530

Kevin's been taking care of the fish

100

00:21:27,640 --> 00:21:25,010

that came up with the with the ATV or

101
00:21:30,190 --> 00:21:27,650
the HTV last year and things have been

102
00:21:32,770 --> 00:21:30,200
going really really well I think the

103
00:21:36,490 --> 00:21:32,780
words under crews patch are particularly

104
00:21:37,240 --> 00:21:36,500
meaningful it says off the earth for the

105
00:21:41,170 --> 00:21:37,250
earth

106
00:21:43,450 --> 00:21:41,180
and what a tremendous phrase that is for

107
00:21:45,570 --> 00:21:43,460
this crew they recognize that by them

108
00:21:47,830 --> 00:21:45,580
making sacrifices and going to space

109
00:21:49,600 --> 00:21:47,840
ultimately their work their research

110
00:21:50,830 --> 00:21:49,610
will benefit every one of us here on the

111
00:21:52,690 --> 00:21:50,840
earth and what it what a tremendous

112
00:21:55,180 --> 00:21:52,700
message that is for the crew so when I

113
00:21:57,460 --> 00:21:55,190

read their patch I think about Tom and

114

00:21:58,750 --> 00:21:57,470

Chris and Roman and I think about what

115

00:22:00,910 --> 00:21:58,760

they're going to do I think about the

116

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

researchers coming forward I think about

117

00:22:04,900 --> 00:22:02,930

them making sacrifices of being on the

118

00:22:06,880 --> 00:22:04,910

station but I think about us here on the

119

00:22:08,680 --> 00:22:06,890

earth benefiting from their work so it's

120

00:22:11,830 --> 00:22:08,690

a tremendous expedition and I'm looking

121

00:22:14,370 --> 00:22:11,840

forward to it very much and Bill 2012

122

00:22:17,590 --> 00:22:14,380

comes to an end here with this launch a

123

00:22:20,860 --> 00:22:17,600

milestone year your thoughts

124

00:22:22,450 --> 00:22:20,870

we started commercial cargo delivery to

125

00:22:25,570 --> 00:22:22,460

the station research expanded

126

00:22:27,700 --> 00:22:25,580

exponentially a significant year no

127

00:22:29,140 --> 00:22:27,710

different yeah you know I think you know

128

00:22:31,000 --> 00:22:29,150

last year I think when I talked to you

129

00:22:33,100 --> 00:22:31,010

about this time I I talked about a year

130

00:22:35,290 --> 00:22:33,110

transition when we ramped off the

131

00:22:37,860 --> 00:22:35,300

shuttle we began operations on station

132

00:22:40,690 --> 00:22:37,870

we started focusing on utilization I

133

00:22:42,520 --> 00:22:40,700

2012 was exactly what I wanted it did

134

00:22:44,140 --> 00:22:42,530

exactly what we needed to do we got

135

00:22:46,840 --> 00:22:44,150

ready we're doing doing tons of research

136

00:22:48,490 --> 00:22:46,850

onboard station and that's just going to

137

00:22:49,840 --> 00:22:48,500

continue and we'll just continue to get

138

00:22:51,250 --> 00:22:49,850

better and better and better and then

139

00:22:53,080 --> 00:22:51,260

we'll start seeing some results come

140

00:22:55,060 --> 00:22:53,090

from that work so you know a lot of

141

00:22:57,100 --> 00:22:55,070

times in our business there's a lot of

142

00:22:58,750 --> 00:22:57,110

preparation a lot of work upfront and we

143

00:23:00,520 --> 00:22:58,760

don't see the benefits for an extended

144

00:23:01,660 --> 00:23:00,530

period of time I think this year we'll

145

00:23:03,520 --> 00:23:01,670

get a chance to see some of those

146

00:23:05,170 --> 00:23:03,530

benefits as things progress through this

147

00:23:08,380 --> 00:23:05,180

year so again I'm looking forward to

148

00:23:10,330 --> 00:23:08,390

2013 and I look back on 2012 and I thank

149

00:23:13,300 --> 00:23:10,340

the teams I thank four folks even here

150

00:23:14,800 --> 00:23:13,310

that made all this happen so so again to

151

00:23:17,020 --> 00:23:14,810

the crews that are working here in these

152

00:23:18,730 --> 00:23:17,030

little chilly conditions they're doing

153

00:23:20,800 --> 00:23:18,740

an awesome job today and I think the

154

00:23:21,880 --> 00:23:20,810

energy a team I thank the Roscosmos team