



PAT RYAN



REID WISEMAN

1  
00:00:03,669 --> 00:00:02,389  
i want to start by asking you about the

2  
00:00:05,349 --> 00:00:03,679  
training you're getting ready to put

3  
00:00:07,269 --> 00:00:05,359  
into practice everything you've been

4  
00:00:08,950 --> 00:00:07,279  
learning for the past couple of years

5  
00:00:10,390 --> 00:00:08,960  
what has it been like traveling all

6  
00:00:11,430 --> 00:00:10,400  
around the world getting ready for this

7  
00:00:14,070 --> 00:00:11,440  
flight

8  
00:00:15,350 --> 00:00:14,080  
it's been great i love the travel i love

9  
00:00:17,109 --> 00:00:15,360  
the people

10  
00:00:19,830 --> 00:00:17,119  
i've met along the way the relationships

11  
00:00:21,990 --> 00:00:19,840  
that i've built in in germany in japan

12  
00:00:24,790 --> 00:00:22,000  
and especially over here in russia back

13  
00:00:26,710 --> 00:00:24,800

in houston uh we've got a great training

14

00:00:29,189 --> 00:00:26,720

team and now we're going to transition

15

00:00:30,790 --> 00:00:29,199

over to a great mission control team i

16

00:00:32,310 --> 00:00:30,800

have my lead flight director my lead

17

00:00:34,870 --> 00:00:32,320

flight surgeon

18

00:00:36,709 --> 00:00:34,880

are with me in russia so uh really it's

19

00:00:38,389 --> 00:00:36,719

just making all these relationships

20

00:00:40,310 --> 00:00:38,399

around the world has been it's been

21

00:00:41,910 --> 00:00:40,320

absolutely fantastic i wondered about

22

00:00:44,150 --> 00:00:41,920

that is is there a big part of the

23

00:00:46,549 --> 00:00:44,160

training that's involved with teaching

24

00:00:48,229 --> 00:00:46,559

you guys how to deal with your different

25

00:00:49,750 --> 00:00:48,239

flight control teams around the world

26  
00:00:51,189 --> 00:00:49,760  
because they're critical in getting the

27  
00:00:54,470 --> 00:00:51,199  
mission accomplished

28  
00:00:56,470 --> 00:00:54,480  
i think we don't really have a specific

29  
00:00:58,790 --> 00:00:56,480  
training program for that but it's to me

30  
00:01:00,150 --> 00:00:58,800  
it's the exposure to their countries so

31  
00:01:01,029 --> 00:01:00,160  
just going over there and training with

32  
00:01:02,869 --> 00:01:01,039  
them

33  
00:01:04,710 --> 00:01:02,879  
you're going to live for a week or so in

34  
00:01:07,030 --> 00:01:04,720  
germany a week or so in japan and then

35  
00:01:09,510 --> 00:01:07,040  
i've spent more than a year in russia

36  
00:01:11,109 --> 00:01:09,520  
there's no way you can spend some time

37  
00:01:13,190 --> 00:01:11,119  
immersed in these cultures and not pull

38  
00:01:15,270 --> 00:01:13,200

out the details that you need to

39

00:01:16,550 --> 00:01:15,280

so it's been really good for me to just

40

00:01:17,910 --> 00:01:16,560

to see all the different sides and there

41

00:01:20,070 --> 00:01:17,920

are definitely differences

42

00:01:23,030 --> 00:01:20,080

has the experience for you of having

43

00:01:24,870 --> 00:01:23,040

been a capcom here in mission control

44

00:01:26,710 --> 00:01:24,880

help you figure out how you deal with

45

00:01:27,830 --> 00:01:26,720

the ground

46

00:01:29,910 --> 00:01:27,840

uh

47

00:01:32,149 --> 00:01:29,920

let's wait maybe a day for the answer to

48

00:01:34,710 --> 00:01:32,159

that question but i definitely think it

49

00:01:37,030 --> 00:01:34,720

it will help me because i know i know

50

00:01:38,710 --> 00:01:37,040

the intensity that mission control works

51  
00:01:40,710 --> 00:01:38,720  
at and i know how many people are

52  
00:01:43,030 --> 00:01:40,720  
involved in making these decisions and

53  
00:01:44,630 --> 00:01:43,040  
there is no way that that knowledge will

54  
00:01:45,830 --> 00:01:44,640  
not help me during my six months in

55  
00:01:47,429 --> 00:01:45,840  
space

56  
00:01:49,270 --> 00:01:47,439  
your launch day tell me what that's

57  
00:01:50,550 --> 00:01:49,280  
going to be like what is that day for a

58  
00:01:52,469 --> 00:01:50,560  
crew as you're getting ready to leave

59  
00:01:55,270 --> 00:01:52,479  
the planet

60  
00:01:57,590 --> 00:01:55,280  
uh it's going to probably continue to be

61  
00:01:58,630 --> 00:01:57,600  
surreal and i'm sure i will have moments

62  
00:02:00,310 --> 00:01:58,640  
of just

63  
00:02:02,310 --> 00:02:00,320

i don't want to say pure panic but pure

64

00:02:04,950 --> 00:02:02,320

adrenaline just coursing through the

65

00:02:06,709 --> 00:02:04,960

crazy six months ago i was in baikonur

66

00:02:09,029 --> 00:02:06,719

for the launch of rick mastracchio

67

00:02:11,110 --> 00:02:09,039

koichi

68

00:02:13,830 --> 00:02:11,120

and i got to see every step of the way

69

00:02:15,990 --> 00:02:13,840

for them and really really neat the

70

00:02:17,350 --> 00:02:16,000

formal ceremonies that you go to the

71

00:02:18,390 --> 00:02:17,360

last time that you're going to see your

72

00:02:20,710 --> 00:02:18,400

spouse

73

00:02:22,550 --> 00:02:20,720

going to suit up in the spacesuit and

74

00:02:24,309 --> 00:02:22,560

then heading out to the launch pad and

75

00:02:26,630 --> 00:02:24,319

we got to ride with those guys all the

76

00:02:28,070 --> 00:02:26,640

way out to the launch pad and uh they

77

00:02:29,670 --> 00:02:28,080

were ready i mean they were ready it was

78

00:02:31,350 --> 00:02:29,680

really neat it was very surreal to be

79

00:02:33,270 --> 00:02:31,360

with them and i imagine for us it'll

80

00:02:34,790 --> 00:02:33,280

it'll be pretty much the same but i

81

00:02:36,390 --> 00:02:34,800

think we'll be joking around a little

82

00:02:38,309 --> 00:02:36,400

bit more than they were

83

00:02:40,869 --> 00:02:38,319

on this ride in the soyuz you're going

84

00:02:42,949 --> 00:02:40,879

to be in the left seat to max sarajevo's

85

00:02:45,750 --> 00:02:42,959

left as essentially the co-pilot on this

86

00:02:49,190 --> 00:02:45,760

soyuz uh how is that going to compare to

87

00:02:53,110 --> 00:02:51,589

uh flying fighter jets

88

00:02:54,949 --> 00:02:53,120

in the in the fighter jet you're in

89

00:02:56,949 --> 00:02:54,959

control of your destiny there you have

90

00:02:58,949 --> 00:02:56,959

the control stick you have the throttles

91

00:03:01,030 --> 00:02:58,959

um and then the systems are pretty

92

00:03:03,430 --> 00:03:01,040

automated to keep you keep you going on

93

00:03:05,589 --> 00:03:03,440

the soyuz on the other hand uh it's a

94

00:03:07,990 --> 00:03:05,599

completely automated system and you're

95

00:03:09,910 --> 00:03:08,000

only there to recover in case of a

96

00:03:11,589 --> 00:03:09,920

failure or an emergency and i've spent

97

00:03:14,229 --> 00:03:11,599

the last year of my life

98

00:03:15,750 --> 00:03:14,239

really really honing these skills and

99

00:03:17,270 --> 00:03:15,760

max and i are ready they can throw

100

00:03:18,790 --> 00:03:17,280

anything at us

101  
00:03:20,949 --> 00:03:18,800  
in the training flow and we can we can

102  
00:03:22,949 --> 00:03:20,959  
pretty much handle it so i really love

103  
00:03:24,550 --> 00:03:22,959  
sitting in the left seat i absolutely

104  
00:03:26,229 --> 00:03:24,560  
love working with max arrive he's a

105  
00:03:28,390 --> 00:03:26,239  
great great commander

106  
00:03:29,990 --> 00:03:28,400  
and we're ready it's gonna be fun

107  
00:03:32,229 --> 00:03:30,000  
you're heading to the station to spend

108  
00:03:33,990 --> 00:03:32,239  
six months doing science tell me two or

109  
00:03:37,750 --> 00:03:34,000  
three of the the really neat things that

110  
00:03:42,229 --> 00:03:39,910  
oh i want to do all of it i'm looking

111  
00:03:43,830 --> 00:03:42,239  
forward to the science that really is

112  
00:03:47,750 --> 00:03:43,840  
going to look at my body and how it

113  
00:03:49,830 --> 00:03:47,760

behaves in space i have a number of of

114

00:03:50,869 --> 00:03:49,840

medical experiments one is this the

115

00:03:54,149 --> 00:03:50,879

sprint

116

00:03:56,229 --> 00:03:54,159

exercise protocol so working out

117

00:03:58,309 --> 00:03:56,239

shorter workouts but really high

118

00:04:00,470 --> 00:03:58,319

intensity so i know anytime i get on the

119

00:04:02,229 --> 00:04:00,480

treadmill i'm going to max heart rate

120

00:04:04,149 --> 00:04:02,239

that's one that i really am excited to

121

00:04:05,670 --> 00:04:04,159

see how it works excited to see how i

122

00:04:08,229 --> 00:04:05,680

feel when i get home and i think the

123

00:04:10,149 --> 00:04:08,239

results are going to be great also doing

124

00:04:11,830 --> 00:04:10,159

lots of ultrasound work

125

00:04:13,589 --> 00:04:11,840

with

126

00:04:15,830 --> 00:04:13,599

investigators on the ground i'll be

127

00:04:18,310 --> 00:04:15,840

looking at my heart my heart valves

128

00:04:20,710 --> 00:04:18,320

blood volume also be doing ultrasound of

129

00:04:21,670 --> 00:04:20,720

the eyes to see how the fluid shift

130

00:04:23,510 --> 00:04:21,680

changes

131

00:04:25,189 --> 00:04:23,520

or ocular pressure all those are

132

00:04:26,790 --> 00:04:25,199

extremely interesting to me because we

133

00:04:28,950 --> 00:04:26,800

need to know these answers if we're

134

00:04:31,749 --> 00:04:28,960

going to have humans in space for 500

135

00:04:33,590 --> 00:04:31,759

plus days so onward to mars that's kind

136

00:04:36,070 --> 00:04:33,600

of a requirement for us but i'm also

137

00:04:37,830 --> 00:04:36,080

looking forward to some of the i'd say

138

00:04:40,070 --> 00:04:37,840

down in the weeds kind of science some

139

00:04:42,550 --> 00:04:40,080

of the protein crystal growth

140

00:04:44,469 --> 00:04:42,560

we also have three different cubesat

141

00:04:47,110 --> 00:04:44,479

deployers that we're gonna check out in

142

00:04:49,510 --> 00:04:47,120

the japanese airlock uh and then finally

143

00:04:52,070 --> 00:04:49,520

i think just a fun one spacex4 should

144

00:04:53,749 --> 00:04:52,080

bring up 3d printing and i really want

145

00:04:55,350 --> 00:04:53,759

to play around with a 3d printer i think

146

00:04:57,830 --> 00:04:55,360

that's really going to change the way we

147

00:04:59,749 --> 00:04:57,840

think about space flight in the future

148

00:05:01,189 --> 00:04:59,759

reed what has to happen on this mission

149

00:05:02,870 --> 00:05:01,199

for you to consider it to be

150

00:05:05,189 --> 00:05:02,880

successful

151  
00:05:06,310 --> 00:05:05,199  
come home

152  
00:05:08,469 --> 00:05:06,320  
that's it

153  
00:05:10,550 --> 00:05:08,479  
i think i think we're ready for

154  
00:05:12,629 --> 00:05:10,560  
everything up there uh i'm excited to

155  
00:05:13,830 --> 00:05:12,639  
get the science underway but in the end

156  
00:05:15,590 --> 00:05:13,840  
i want to come home and walk on the

157  
00:05:16,710 --> 00:05:15,600  
grass again

158  
00:05:18,310 --> 00:05:16,720  
well reed

159  
00:05:19,830 --> 00:05:18,320  
thanks for the talk and and good luck on

160  
00:05:21,270 --> 00:05:19,840  
the mission

161  
00:05:23,270 --> 00:05:21,280  
all right thanks great talk to you great