



**SPACESTATION  
LIVE**

1  
00:00:10,070 --> 00:00:07,749  
well as part of expeditions 22 and 23 tj

2  
00:00:11,430 --> 00:00:10,080  
creamer traveled more than 65 million

3  
00:00:13,270 --> 00:00:11,440  
miles around the planet living and

4  
00:00:14,390 --> 00:00:13,280  
working on board the space station well

5  
00:00:15,990 --> 00:00:14,400  
the past three and a half years he's

6  
00:00:17,670 --> 00:00:16,000  
traveled a little shorter distance from

7  
00:00:19,349 --> 00:00:17,680  
his home base in houston at johnson

8  
00:00:22,310 --> 00:00:19,359  
space center to here in huntsville to

9  
00:00:24,150 --> 00:00:22,320  
become our astropod astronaut and a

10  
00:00:26,470 --> 00:00:24,160  
payload operations director leading the

11  
00:00:28,470 --> 00:00:26,480  
ground teams here well part of tj's

12  
00:00:30,150 --> 00:00:28,480  
unique perspective of having been there

13  
00:00:32,870 --> 00:00:30,160

done that really helped to streamline

14

00:00:35,030 --> 00:00:32,880

some processes here at the poic but as

15

00:00:36,709 --> 00:00:35,040

they say all good things must come to an

16

00:00:38,630 --> 00:00:36,719

end and tj is being reassigned to the

17

00:00:40,310 --> 00:00:38,640

orion program back at johnson space

18

00:00:42,389 --> 00:00:40,320

center but i had a chance to catch up

19

00:00:44,790 --> 00:00:42,399

with him and get a few passing thoughts

20

00:00:46,229 --> 00:00:44,800

on his last trip here to huntsville

21

00:00:47,910 --> 00:00:46,239

tell me what it's been like for you to

22

00:00:49,830 --> 00:00:47,920

work in the poic

23

00:00:51,029 --> 00:00:49,840

so

24

00:00:52,630 --> 00:00:51,039

it's been a three and a half year

25

00:00:54,709 --> 00:00:52,640

journey

26  
00:00:55,590 --> 00:00:54,719  
i got to meet wonderful people and we're

27  
00:00:57,029 --> 00:00:55,600  
doing

28  
00:00:59,110 --> 00:00:57,039  
not only

29  
00:01:00,709 --> 00:00:59,120  
the program the space station programs

30  
00:01:03,349 --> 00:01:00,719  
business but also the agencies in the

31  
00:01:04,549 --> 00:01:03,359  
countries if we don't do the research

32  
00:01:06,310 --> 00:01:04,559  
we're not going to be able to get to go

33  
00:01:08,070 --> 00:01:06,320  
farther

34  
00:01:10,230 --> 00:01:08,080  
folks here are trying to do the best job

35  
00:01:11,990 --> 00:01:10,240  
they can to get us to go farther to get

36  
00:01:13,510 --> 00:01:12,000  
to reap the benefits of the science not

37  
00:01:14,870 --> 00:01:13,520  
only to get us to go farther but to help

38  
00:01:16,870 --> 00:01:14,880

folks on the ground

39

00:01:19,749 --> 00:01:16,880

there isn't much more exciting

40

00:01:21,190 --> 00:01:19,759

things to do than that

41

00:01:23,749 --> 00:01:21,200

is it different than you thought it was

42

00:01:25,510 --> 00:01:23,759

going to be no ma'am it's as what i

43

00:01:27,030 --> 00:01:25,520

thought my whole life has been real-time

44

00:01:29,590 --> 00:01:27,040

ops

45

00:01:31,429 --> 00:01:29,600

so i'm coming here to help out in real

46

00:01:33,749 --> 00:01:31,439

time ops awareness blending the

47

00:01:36,310 --> 00:01:33,759

real-time ops houston community with the

48

00:01:38,310 --> 00:01:36,320

huntsville real-time ops community

49

00:01:40,710 --> 00:01:38,320

sharing the experiences i had when i was

50

00:01:42,789 --> 00:01:40,720

on space station real-time ops

51  
00:01:44,710 --> 00:01:42,799  
um as a result no it wasn't any

52  
00:01:47,590 --> 00:01:44,720  
different than i thought it it was as

53  
00:01:48,870 --> 00:01:47,600  
rewarding as as i had imagined

54  
00:01:50,710 --> 00:01:48,880  
and for folks who don't know i mean

55  
00:01:53,190 --> 00:01:50,720  
there would be tourists come through and

56  
00:01:55,270 --> 00:01:53,200  
you would step out and talk to them i

57  
00:01:56,870 --> 00:01:55,280  
mean why do you do that again it's an

58  
00:01:59,270 --> 00:01:56,880  
excitement thing i

59  
00:02:01,749 --> 00:01:59,280  
am infected with the excitement of what

60  
00:02:04,230 --> 00:02:01,759  
we're doing both from a space operations

61  
00:02:05,109 --> 00:02:04,240  
world as well as a real-time ops world

62  
00:02:06,950 --> 00:02:05,119  
also

63  
00:02:08,790 --> 00:02:06,960

from the research world and doing this

64

00:02:11,190 --> 00:02:08,800

kind of science

65

00:02:12,630 --> 00:02:11,200

it helps folks understand when you are

66

00:02:14,309 --> 00:02:12,640

that excited

67

00:02:16,550 --> 00:02:14,319

what the excitement really is and to be

68

00:02:18,229 --> 00:02:16,560

able to convey that to folks they then

69

00:02:19,990 --> 00:02:18,239

be able to spread that out to their

70

00:02:21,990 --> 00:02:20,000

family and friends and we're just doing

71

00:02:23,910 --> 00:02:22,000

a little bit more winning the winning

72

00:02:24,869 --> 00:02:23,920

the folks over and showing them the way

73

00:02:26,309 --> 00:02:24,879

forward

74

00:02:28,070 --> 00:02:26,319

what was your favorite experiment or

75

00:02:31,350 --> 00:02:28,080

most interesting that you helped with

76

00:02:33,350 --> 00:02:31,360

from the ground oh there's a number

77

00:02:34,550 --> 00:02:33,360

so let me put it in in perspective of

78

00:02:36,550 --> 00:02:34,560

what we're trying to do for folks on the

79

00:02:38,949 --> 00:02:36,560

ground we're trying to study

80

00:02:41,030 --> 00:02:38,959

very special protein crystals that we

81

00:02:43,750 --> 00:02:41,040

know can interfere

82

00:02:46,309 --> 00:02:43,760

at the keyhole replication sites for for

83

00:02:48,229 --> 00:02:46,319

breast cancer so if we're able to help

84

00:02:50,949 --> 00:02:48,239

conquer that problem of breast cancer

85

00:02:53,910 --> 00:02:50,959

that's a pretty exciting advent for us

86

00:02:58,229 --> 00:02:53,920

another help for for

87

00:03:00,790 --> 00:02:58,239

humans on the earth is the study of

88

00:03:03,110 --> 00:03:00,800

conditions like osteoporosis everyone's

89

00:03:04,390 --> 00:03:03,120

going to suffer osteoporotic conditions

90

00:03:06,790 --> 00:03:04,400

how do we beat that and so now we're

91

00:03:08,949 --> 00:03:06,800

doing dietary experiments that show us

92

00:03:10,710 --> 00:03:08,959

ways that we can help forestall that

93

00:03:13,030 --> 00:03:10,720

we're doing exercise programs that are

94

00:03:15,030 --> 00:03:13,040

specifically designed to help forestall

95

00:03:16,550 --> 00:03:15,040

that we're doing

96

00:03:18,470 --> 00:03:16,560

rodent studies where we're beginning to

97

00:03:20,949 --> 00:03:18,480

learn about how

98

00:03:22,949 --> 00:03:20,959

those bodies are adapting and how

99

00:03:24,470 --> 00:03:22,959

weightlessness or space travel can be

100

00:03:26,550 --> 00:03:24,480

affecting folks

101  
00:03:28,470 --> 00:03:26,560  
for space travel but the same principles

102  
00:03:29,990 --> 00:03:28,480  
apply for folks on the ground these

103  
00:03:33,509 --> 00:03:30,000  
things being able to give back directly

104  
00:03:34,949 --> 00:03:33,519  
to to mankind is really kind of exciting

105  
00:03:36,470 --> 00:03:34,959  
what are your thoughts on staying up

106  
00:03:39,190 --> 00:03:36,480  
there for one year

107  
00:03:41,030 --> 00:03:39,200  
um my best answer is on the day we were

108  
00:03:43,030 --> 00:03:41,040  
scheduled to come back for my five and a

109  
00:03:44,390 --> 00:03:43,040  
half months mission if the ground said

110  
00:03:46,229 --> 00:03:44,400  
we had to stay up there for another four

111  
00:03:49,190 --> 00:03:46,239  
or five months i would have again okay

112  
00:03:50,949 --> 00:03:49,200  
it is one it's a wonderful experiment

113  
00:03:52,270 --> 00:03:50,959

experience and experiment and we're

114

00:03:55,589 --> 00:03:52,280

learning from

115

00:03:57,830 --> 00:03:55,599

adaptability and recovery and

116

00:03:59,910 --> 00:03:57,840

the countermeasures to make it a safe

117

00:04:01,429 --> 00:03:59,920

trip for long duration missions i think

118

00:04:02,630 --> 00:04:01,439

it's a pretty good step

119

00:04:04,470 --> 00:04:02,640

what did you enjoy most about the

120

00:04:06,630 --> 00:04:04,480

huntsville community all the people my

121

00:04:08,949 --> 00:04:06,640

gosh oh i should also say

122

00:04:12,630 --> 00:04:08,959

so i've now been living in houston since

123

00:04:16,229 --> 00:04:12,640

95 so we got 20 years there we've got

124

00:04:18,150 --> 00:04:16,239

very springing hard grass and no hills

125

00:04:20,390 --> 00:04:18,160

come here you got very green grass and

126

00:04:21,670 --> 00:04:20,400

rolling hills this is wonderful and the

127

00:04:23,830 --> 00:04:21,680

people

128

00:04:25,990 --> 00:04:23,840

so tell us what you will be doing now so

129

00:04:28,790 --> 00:04:26,000

the actual flying portion of astronauts

130

00:04:30,870 --> 00:04:28,800

career is very minimal

131

00:04:32,790 --> 00:04:30,880

most the time we are engaging with folks

132

00:04:34,469 --> 00:04:32,800

to share the excitement

133

00:04:36,629 --> 00:04:34,479

share the wonder

134

00:04:39,510 --> 00:04:36,639

we're doing technical jobs and for

135

00:04:41,110 --> 00:04:39,520

instance i've been working the i.t world

136

00:04:43,110 --> 00:04:41,120

on space station since the beginning of

137

00:04:44,870 --> 00:04:43,120

space station is a technical job i'm

138

00:04:46,870 --> 00:04:44,880

helping out with the orion landing and

139

00:04:47,909 --> 00:04:46,880

recovery um efforts that are going on

140

00:04:49,430 --> 00:04:47,919

now

141

00:04:52,469 --> 00:04:49,440

orion landing and recovery where where

142

00:04:54,710 --> 00:04:52,479

are we the capsule has to land someplace

143

00:04:57,270 --> 00:04:54,720

we want to land in water now how do you

144

00:04:59,030 --> 00:04:57,280

get the crew out to medical how do we

145

00:05:00,870 --> 00:04:59,040

recover the crew module

146

00:05:03,350 --> 00:05:00,880

in an expeditious amount of time and

147

00:05:04,870 --> 00:05:03,360

there's a number of ways of doing this

148

00:05:06,629 --> 00:05:04,880

a little different than the way you

149

00:05:08,710 --> 00:05:06,639

landed in russia right just a little bit

150

00:05:11,189 --> 00:05:08,720

that's right we landed on land

151

00:05:13,909 --> 00:05:11,199

we had soft landing thrusters

152

00:05:15,909 --> 00:05:13,919

a misnomer but it's softer if they said

153

00:05:16,710 --> 00:05:15,919

softer landing thrusters that's totally

154

00:05:18,310 --> 00:05:16,720

true

155

00:05:20,469 --> 00:05:18,320

but the nice thing about land though is

156

00:05:22,150 --> 00:05:20,479

they've got lots of land