

Astronaut Charlie Hobbaugh is shown in a space station kitchen, wearing a blue long-sleeved shirt and an orange apron. He is standing at a table with a plate of food and a purple water bottle. Another person in a green shirt is visible in the background, looking at a control panel. The environment is filled with various equipment, cables, and storage units.

Astronaut Charlie Hobbaugh

1
00:00:10,470 --> 00:00:08,950
hi i'm astronaut mike massimino earlier

2
00:00:12,629 --> 00:00:10,480
this year i flew aboard space shuttle

3
00:00:14,470 --> 00:00:12,639
atlantis to the hubble space telescope

4
00:00:16,310 --> 00:00:14,480
my crewmates and i spent more than two

5
00:00:18,070 --> 00:00:16,320
years training for that mission and now

6
00:00:19,590 --> 00:00:18,080
another crew is getting ready to fly on

7
00:00:21,510 --> 00:00:19,600
atlantis and they're going to the

8
00:00:23,189 --> 00:00:21,520
international space station

9
00:00:24,870 --> 00:00:23,199
they've been working hard to get ready

10
00:00:26,390 --> 00:00:24,880
for their flight and they've let us

11
00:00:28,630 --> 00:00:26,400
follow them around for the past few

12
00:00:30,390 --> 00:00:28,640
weeks with a camera we're about to show

13
00:00:32,470 --> 00:00:30,400

you some of that footage and you're

14

00:00:34,950 --> 00:00:32,480

going to get an up-close view of the

15

00:00:36,790 --> 00:00:34,960

crew go inside their training and hear

16

00:00:38,069 --> 00:00:36,800

some of the stories from the astronauts

17

00:00:41,990 --> 00:00:38,079

and their team

18

00:00:49,910 --> 00:00:42,000

this is sts 129 behind the scenes and we

19

00:01:00,790 --> 00:00:55,029

consummate coffee coffee coffee

20

00:01:04,549 --> 00:01:02,549

pineapple grapefruit no we don't have

21

00:01:15,749 --> 00:01:04,559

any tea today that looks like that's all

22

00:01:15,759 --> 00:01:33,670

get that button here

23

00:01:36,149 --> 00:01:34,789

there you go

24

00:01:37,990 --> 00:01:36,159

actually let me shoot you a little more

25

00:01:39,590 --> 00:01:38,000

that's a little light

26
00:01:44,149 --> 00:01:39,600
sometimes this thing doesn't really put

27
00:01:48,710 --> 00:01:46,870
sometimes it doesn't have that one

28
00:01:50,230 --> 00:01:48,720
sometimes you said it says eight ounces

29
00:01:59,749 --> 00:01:50,240
but doesn't really shoot eight ounces in

30
00:02:02,870 --> 00:02:01,429
there you go lemonade artificial

31
00:02:04,709 --> 00:02:02,880
sweetener and just

32
00:02:06,550 --> 00:02:04,719
shake that up and then you open that

33
00:02:09,029 --> 00:02:06,560
clip when you're ready to drink

34
00:02:11,190 --> 00:02:09,039
here's one of those uh lcps liquid

35
00:02:13,589 --> 00:02:11,200
cooling garment

36
00:02:15,270 --> 00:02:13,599
this is scorches

37
00:02:17,270 --> 00:02:15,280
when he comes down to suit up he'll put

38
00:02:18,949 --> 00:02:17,280

this on and

39

00:02:22,710 --> 00:02:18,959

has all these cooling lines running

40

00:02:24,390 --> 00:02:22,720

through it and plugs in right here and

41

00:02:27,430 --> 00:02:24,400

the cooling comes on the outside of the

42

00:02:29,030 --> 00:02:27,440

orange suit plugs into this basically

43

00:02:30,949 --> 00:02:29,040

keeps us cool

44

00:02:34,309 --> 00:02:30,959

now he's got his cooling garment on you

45

00:02:36,150 --> 00:02:34,319

connect the bottoms to the top there

46

00:02:37,110 --> 00:02:36,160

so that the cooling will flow through

47

00:02:39,589 --> 00:02:37,120

both

48

00:02:50,710 --> 00:02:39,599

garments

49

00:02:55,190 --> 00:02:52,710

okay so you're putting on you've got

50

00:02:56,790 --> 00:02:55,200

your fancy underwear on you're cooling

51
00:02:58,710 --> 00:02:56,800
you're cooling cooling cooling that's

52
00:03:01,430 --> 00:02:58,720
the blue thing it's got all those tubes

53
00:03:02,550 --> 00:03:01,440
that bring cooling water over your body

54
00:03:03,910 --> 00:03:02,560
and keep you nice and cool because you

55
00:03:05,830 --> 00:03:03,920
can get outside i think and now you're

56
00:03:07,350 --> 00:03:05,840
putting a g suit on

57
00:03:10,070 --> 00:03:07,360
you don't really need

58
00:03:12,070 --> 00:03:10,080
cooling garments

59
00:03:13,830 --> 00:03:12,080
and now you're putting a g suit on

60
00:03:15,030 --> 00:03:13,840
speed breeches okay do you ask what you

61
00:03:16,229 --> 00:03:15,040
call those things

62
00:03:17,830 --> 00:03:16,239
why do they call them that man this is

63
00:03:19,350 --> 00:03:17,840

called it's like fighter pilot stuff

64

00:03:20,790 --> 00:03:19,360

that's right firefighters pull

65

00:03:21,910 --> 00:03:20,800

jesus

66

00:03:23,509 --> 00:03:21,920

keeps the blood in your head so you

67

00:03:25,270 --> 00:03:23,519

don't pass out it's kind of the same

68

00:03:26,869 --> 00:03:25,280

thing for us all right since we're

69

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

coming back from space we're not used to

70

00:03:31,110 --> 00:03:29,280

having all this blood in our bodies rid

71

00:03:33,270 --> 00:03:31,120

of a lot of it it kind of helps keep it

72

00:03:34,390 --> 00:03:33,280

back up here all right so this this

73

00:03:35,350 --> 00:03:34,400

keeps the blood where it's supposed to

74

00:03:36,390 --> 00:03:35,360

be because you don't want to be passing

75

00:03:39,110 --> 00:03:36,400

out while you're landing this thing

76
00:03:40,869 --> 00:03:39,120
that's right that would be bad so we we

77
00:03:43,990 --> 00:03:40,879
also use speed bridges for a different

78
00:03:47,190 --> 00:03:44,000
reason in space speed bridges yeah

79
00:03:49,670 --> 00:03:47,200
cool is that custom fit to our bodies

80
00:03:51,430 --> 00:03:49,680
to our lower extremities

81
00:03:53,429 --> 00:03:51,440
so it'll squeeze

82
00:03:54,309 --> 00:03:53,439
obviously squeezes

83
00:03:55,589 --> 00:03:54,319
from

84
00:03:57,990 --> 00:03:55,599
the calves

85
00:03:59,350 --> 00:03:58,000
thighs and abdomen

86
00:04:00,789 --> 00:03:59,360
push the blood to our head and is this

87
00:04:02,550 --> 00:04:00,799
similar to what you wore in the in the

88
00:04:04,149 --> 00:04:02,560

marine corps when you were flying were

89

00:04:05,110 --> 00:04:04,159

you flying harrison was the same it

90

00:04:06,789 --> 00:04:05,120

looked they kind of looked like that

91

00:04:09,429 --> 00:04:06,799

type of concept but a bit different a

92

00:04:10,869 --> 00:04:09,439

little bit different yeah cool

93

00:04:12,470 --> 00:04:10,879

and uh you know you don't wear that for

94

00:04:14,710 --> 00:04:12,480

launch right you just wear those for

95

00:04:15,990 --> 00:04:14,720

entry correct right so now he's gonna

96

00:04:17,110 --> 00:04:16,000

put on his

97

00:04:21,509 --> 00:04:17,120

big

98

00:04:24,629 --> 00:04:23,430

and mike is like the butler's gonna help

99

00:04:26,950 --> 00:04:24,639

him out here

100

00:04:27,749 --> 00:04:26,960

and now doing this in space bobby he's

101
00:04:29,110 --> 00:04:27,759
going to be floating around you're

102
00:04:30,310 --> 00:04:29,120
probably going to be behind him holding

103
00:04:31,430 --> 00:04:30,320
him down right that's what's going to

104
00:04:32,950 --> 00:04:31,440
happen he's going to be floating up

105
00:04:38,710 --> 00:04:32,960
trying to push against him is going to

106
00:04:44,070 --> 00:04:42,390
so the tape is for that to hold him down

107
00:04:48,150 --> 00:04:44,080
all right so now you got to do now

108
00:04:50,950 --> 00:04:49,749
his would you call him again speed

109
00:04:52,950 --> 00:04:50,960
bridges

110
00:04:54,310 --> 00:04:52,960
to your uh to its supply to an air

111
00:04:56,790 --> 00:04:54,320
supply did so you can inflate those

112
00:04:57,990 --> 00:04:56,800
things

113
00:05:00,070 --> 00:04:58,000

already hooked it up all right so he's

114

00:05:00,950 --> 00:05:00,080

hooked up these tubes here before his

115

00:05:02,710 --> 00:05:00,960

cooling

116

00:05:04,629 --> 00:05:02,720

and then he'll hook up water and air to

117

00:05:07,270 --> 00:05:04,639

the outside of the suit to provide water

118

00:05:15,749 --> 00:05:07,280

and air to his uh

119

00:05:19,749 --> 00:05:17,670

okay ready to go see when you do this

120

00:05:21,350 --> 00:05:19,759

when you launch you have guys

121

00:05:24,469 --> 00:05:21,360

to help you

122

00:05:27,749 --> 00:05:24,479

the dodge how's that done

123

00:05:27,759 --> 00:05:31,830

dodgeball dodge dip duck

124

00:05:31,840 --> 00:05:37,430

all right dive and dodge

125

00:05:40,310 --> 00:05:38,870

and we know scorch is in the right suit

126

00:05:41,749 --> 00:05:40,320

because he's got the red identifier

127

00:05:43,670 --> 00:05:41,759

right there

128

00:05:45,110 --> 00:05:43,680

your name should be there where's empty

129

00:05:46,790 --> 00:05:45,120

you got all your survival gear in your

130

00:05:53,029 --> 00:05:46,800

pockets

131

00:05:56,469 --> 00:05:54,310

that's what it's like when you can't

132

00:05:57,990 --> 00:05:56,479

reach your feet

133

00:05:59,590 --> 00:05:58,000

you put your shoes on

134

00:06:00,870 --> 00:05:59,600

you need help these there's a you need

135

00:06:02,230 --> 00:06:00,880

two guys helping you really fit this one

136

00:06:03,510 --> 00:06:02,240

got to keep you steady and the other guy

137

00:06:15,350 --> 00:06:03,520

to put the stuff on because you're

138

00:06:26,150 --> 00:06:18,150

butcher's wearing his undergarment

139

00:06:30,390 --> 00:06:29,110

connect the lcg and g-suit

140

00:06:33,110 --> 00:06:30,400

uh next we'll

141

00:06:35,029 --> 00:06:33,120

connect and clip your harness o2 once we

142

00:06:38,309 --> 00:06:35,039

get your harness on

143

00:06:43,909 --> 00:06:38,319

counterbalance over the harness so

144

00:06:51,189 --> 00:06:47,990

manual press pull counter clockwise

145

00:07:02,629 --> 00:06:51,199

just make sure we're plugged in and goes

146

00:07:06,469 --> 00:07:04,950

so this is the harness

147

00:07:15,670 --> 00:07:06,479

harness