



VOICE OF

Kevin Ford
Expedition 34
Commander

ABOARD INTERNATIONAL SPACE STATION



1
00:00:09,110 --> 00:00:06,869
so while commander ford is engaged in

2
00:00:11,350 --> 00:00:09,120
that spheres activity uh most of the day

3
00:00:14,230 --> 00:00:11,360
today he'll also be doing some

4
00:00:16,710 --> 00:00:14,240
prep work in order to get ready for

5
00:00:18,310 --> 00:00:16,720
coming home a little bit later this week

6
00:00:20,870 --> 00:00:18,320
aside from all this experiment

7
00:00:22,710 --> 00:00:20,880
maintenance activity he was able to

8
00:00:25,509 --> 00:00:22,720
take some time out of his day yesterday

9
00:00:26,710 --> 00:00:25,519
to uh do a ham radio pass with some

10
00:00:28,790 --> 00:00:26,720
students in

11
00:00:30,310 --> 00:00:28,800
a public school in australia uh why

12
00:00:34,630 --> 00:00:30,320
don't we take a listen uh to that

13
00:00:39,990 --> 00:00:37,110

today we are acting from italy as a

14

00:00:43,510 --> 00:00:40,000

celebration station for mount ashley

15

00:00:45,590 --> 00:00:43,520

public school in ferry middle australia

16

00:00:47,270 --> 00:00:45,600

are you ready for the first question

17

00:00:52,709 --> 00:00:47,280

carrying over

18

00:00:58,549 --> 00:00:55,670

okay okay kevin senior you should go go

19

00:01:00,630 --> 00:00:58,559

and hide australia

20

00:01:02,950 --> 00:01:00,640

how does radiation affect you and do you

21

00:01:06,149 --> 00:01:02,960

worry about radiation levels in the skin

22

00:01:08,390 --> 00:01:06,159

atmosphere over

23

00:01:09,830 --> 00:01:08,400

there i don't worry about them myself

24

00:01:11,750 --> 00:01:09,840

but there are many engineers who watch

25

00:01:13,830 --> 00:01:11,760

the radiation level for us we have one

26
00:01:16,070 --> 00:01:13,840
cooking on board that can warn us if we

27
00:01:17,670 --> 00:01:16,080
need to take shelter you have some

28
00:01:19,590 --> 00:01:17,680
special places we can go with some

29
00:01:21,910 --> 00:01:19,600
little extra protection in our crew

30
00:01:24,310 --> 00:01:21,920
quarters have to be careful and we were

31
00:01:27,429 --> 00:01:24,320
detectors on us while we're in space

32
00:01:29,830 --> 00:01:27,439
great question over

33
00:01:34,390 --> 00:01:29,840
the sound sound different in space both

34
00:01:36,230 --> 00:01:34,400
in the iss and went on a space walk over

35
00:01:38,550 --> 00:01:36,240
well it does sound a little different

36
00:01:39,910 --> 00:01:38,560
out here um inside the space station we

37
00:01:42,230 --> 00:01:39,920
can hear each other well when we're

38
00:01:44,550 --> 00:01:42,240

talking and we can listen to music uh

39

00:01:46,789 --> 00:01:44,560

there is a lot of extra noise from fans

40

00:01:48,550 --> 00:01:46,799

and things but uh we always do have a

41

00:01:50,069 --> 00:01:48,560

background but we're out on a spacewalk

42

00:01:54,389 --> 00:01:50,079

we just wear headphones and all we can

43

00:01:56,950 --> 00:01:54,399

hear is a radio just like this one over

44

00:01:59,749 --> 00:01:56,960

how do you store the oxygen needed for

45

00:02:04,389 --> 00:01:59,759

the astronauts and do you have enough

46

00:02:12,470 --> 00:02:06,550

yes we do we carry plenty so that we can

47

00:02:17,190 --> 00:02:15,190

so what we do inside is we we rebreathe

48

00:02:19,350 --> 00:02:17,200

our oxygen when we breathe it in and you

49

00:02:22,470 --> 00:02:19,360

use it to rebreathe it back out as

50

00:02:24,309 --> 00:02:22,480

carbon dioxide we have special machines

51
00:02:25,830 --> 00:02:24,319
out of it so that we can bring it again

52
00:02:26,630 --> 00:02:25,840
over

53
00:02:36,790 --> 00:02:26,640
if

54
00:02:40,150 --> 00:02:36,800
is pretty cool do you have the option to

55
00:02:43,830 --> 00:02:40,160
evacuate them back to earth and would

56
00:02:45,830 --> 00:02:43,840
you devote the mission all right well

57
00:02:47,750 --> 00:02:45,840
oh riley that's a really good question

58
00:02:49,509 --> 00:02:47,760
we have good equipment uh like

59
00:02:50,470 --> 00:02:49,519
defibrillators and certain kinds of

60
00:02:52,630 --> 00:02:50,480
drugs

61
00:02:54,790 --> 00:02:52,640
that are on board to help us like we

62
00:02:57,110 --> 00:02:54,800
could give an intraosseous a shot into

63
00:02:59,110 --> 00:02:57,120

the bone if we had to resuscitate

64

00:03:01,270 --> 00:02:59,120

somebody maybe a cardiac arrest that got

65

00:03:13,750 --> 00:03:01,280

poisoned or something we also could

66

00:03:18,869 --> 00:03:16,790

do you feel physically or mentally any

67

00:03:21,589 --> 00:03:18,879

different when you come back to earth

68

00:03:27,030 --> 00:03:25,110

yes we do in both cases uh we exercise a

69

00:03:29,110 --> 00:03:27,040

great deal up here but when we come home

70

00:03:30,630 --> 00:03:29,120

gravity is still going to be very heavy

71

00:03:35,190 --> 00:03:30,640

for me

72

00:03:38,149 --> 00:03:35,200

around for a long time my muscles will

73

00:03:40,309 --> 00:03:38,159

be sore and stiff i think i i also have

74

00:03:42,309 --> 00:03:40,319

to recover my sense of balance

75

00:03:44,630 --> 00:03:42,319

but as for mentally i think it would

76

00:03:46,949 --> 00:03:44,640

just be getting used to all the people

77

00:03:48,949 --> 00:03:46,959

again and wind and the weather because

78

00:03:51,830 --> 00:03:48,959

up here is a pretty sterile environment

79

00:03:57,110 --> 00:03:54,470

how do you know that it's not all day do

80

00:04:05,190 --> 00:03:57,120

you get a dead like final feeling and

81

00:04:10,229 --> 00:04:07,750

it doesn't affect my sleep but uh

82

00:04:12,470 --> 00:04:10,239

whether it's night or day we work on a

83

00:04:15,429 --> 00:04:12,480

24 hour clock just like on earth and we

84

00:04:17,670 --> 00:04:15,439

use mean time for our daily clock so we

85

00:04:19,909 --> 00:04:17,680

wake up and we go to bed at the same

86

00:04:22,790 --> 00:04:19,919

time on our watches every

87

00:04:24,390 --> 00:04:22,800

16 times each day we see light and dark

88

00:04:26,310 --> 00:04:24,400

so if we look out the window the sun

89

00:04:29,430 --> 00:04:26,320

rises at sunset

90

00:04:32,629 --> 00:04:29,440

16 times every day but no problems with

91

00:04:40,469 --> 00:04:36,550

this is to ask injection questions how

92

00:04:46,070 --> 00:04:40,479

does the eye says generate and store

93

00:04:50,870 --> 00:04:48,230

that's a great question we use a lot of

94

00:04:52,790 --> 00:04:50,880

power on board and we have very large

95

00:04:54,550 --> 00:04:52,800

solar arrays

96

00:04:56,710 --> 00:04:54,560

solar panels that

97

00:04:58,950 --> 00:04:56,720

generate electricity for us

98

00:05:01,590 --> 00:04:58,960

when we're in the sunlight uh on our

99

00:05:03,510 --> 00:05:01,600

orbits we can put it all into batteries

100

00:05:05,590 --> 00:05:03,520

and store it so that when we're in the

101
00:05:08,070 --> 00:05:05,600
night camera of our orbits we can use it

102
00:05:09,830 --> 00:05:08,080
out of the batteries so about every 90

103
00:05:11,670 --> 00:05:09,840
minutes they go through charging and

104
00:05:13,749 --> 00:05:11,680
discharging cycles

105
00:05:16,310 --> 00:05:13,759
inside we always just see a good power

106
00:05:19,189 --> 00:05:16,320
supply over

107
00:05:22,550 --> 00:05:19,199
what were your preparations for going to

108
00:05:27,029 --> 00:05:22,560
the iss and how long does it take

109
00:05:31,430 --> 00:05:29,110
for this particular flight i had to

110
00:05:34,870 --> 00:05:31,440
train for about two and a half years

111
00:05:37,590 --> 00:05:34,880
both in russia also in germany and also

112
00:05:39,830 --> 00:05:37,600
in japan and in houston texas for all

113
00:05:41,909 --> 00:05:39,840

the things they need

114

00:05:43,749 --> 00:05:41,919

so um that's just for this mission

115

00:05:45,749 --> 00:05:43,759

before that i had about two years of

116

00:05:47,749 --> 00:05:45,759

training just to be a good astronaut to

117

00:05:49,029 --> 00:05:47,759

learn about astronomy and medical

118

00:05:50,070 --> 00:05:49,039

procedures

119

00:05:52,390 --> 00:05:50,080

science

120

00:05:54,950 --> 00:05:52,400

over

121

00:05:59,830 --> 00:05:54,960

why is the work you do with the iss

122

00:06:03,990 --> 00:06:02,070

well because so many different kinds of

123

00:06:06,070 --> 00:06:04,000

fields of study

124

00:06:07,749 --> 00:06:06,080

are influenced by earth's gravity the

125

00:06:10,469 --> 00:06:07,759

way things grow

126
00:06:12,469 --> 00:06:10,479
the way metals solidify and things like

127
00:06:13,430 --> 00:06:12,479
that the way air moves the way fire

128
00:06:15,350 --> 00:06:13,440
burns

129
00:06:17,029 --> 00:06:15,360
they're all influenced by gravity on

130
00:06:19,189 --> 00:06:17,039
earth so be to be able to come up here

131
00:06:20,870 --> 00:06:19,199
and study things without gravity we

132
00:06:22,469 --> 00:06:20,880
could learn a tremendous amount that we

133
00:06:24,309 --> 00:06:22,479
didn't know before and it will make a

134
00:06:26,469 --> 00:06:24,319
big difference

135
00:06:29,350 --> 00:06:26,479
fields over

136
00:06:33,270 --> 00:06:29,360
what do you miss most about home women

137
00:06:38,950 --> 00:06:36,070
well i do miss all the people that i get

138
00:06:41,510 --> 00:06:38,960

to interact with every day and also the

139

00:06:44,629 --> 00:06:41,520

food that we have on the planet earth

140

00:06:46,950 --> 00:06:44,639

and also just um our way of life and

141

00:06:49,510 --> 00:06:46,960

being able to walk around so i like

142

00:06:53,189 --> 00:06:49,520

microgravity i also like being able to

143

00:06:57,430 --> 00:06:54,710

over

144

00:07:00,790 --> 00:06:57,440

how do you read all right if things keep

145

00:07:02,870 --> 00:07:00,800

moving around over

146

00:07:04,790 --> 00:07:02,880

well that's a good question we have to

147

00:07:07,749 --> 00:07:04,800

stabilize ourselves right now when i'm

148

00:07:09,830 --> 00:07:07,759

talking to you i've got my feet locked

149

00:07:11,749 --> 00:07:09,840

underneath the little rail on the floor

150

00:07:13,749 --> 00:07:11,759

so they don't float away

151

00:07:28,390 --> 00:07:13,759

i have to be able to use my hands to

152

00:07:28,400 --> 00:07:38,710

over

153

00:07:38,720 --> 00:07:55,589

says it really worked up

154

00:07:59,189 --> 00:07:57,350

airlock we have to be able to open and

155

00:08:01,350 --> 00:07:59,199

close the valves and open and close

156

00:08:03,749 --> 00:08:01,360

hatches so we have to get everything all

157

00:08:05,990 --> 00:08:03,759

cleaned up and ready then the ground can

158

00:08:08,309 --> 00:08:06,000

power on all those valves for us so that

159

00:08:10,869 --> 00:08:08,319

they're available and when it's time to

160

00:08:13,830 --> 00:08:10,879

go outside we go into a special little

161

00:08:15,589 --> 00:08:13,840

chamber close the hatch behind us

162

00:08:17,589 --> 00:08:15,599

there's a hat that goes outside with the

163

00:08:19,589 --> 00:08:17,599

valve and we open up that valve we let

164

00:08:21,510 --> 00:08:19,599

all the air out of the chamber

165

00:08:31,830 --> 00:08:21,520

and we can open a big hatch to go

166

00:08:36,230 --> 00:08:33,750

how do you become an astronaut in space

167

00:08:38,870 --> 00:08:36,240

well you have to know a lot about math

168

00:08:40,790 --> 00:08:38,880

science engineering learn to do a lot of

169

00:08:42,630 --> 00:08:40,800

things with your hands really you do

170

00:08:45,190 --> 00:08:42,640

what you're doing right now is you just

171

00:08:46,949 --> 00:08:45,200

be a really good student in school learn

172

00:08:48,470 --> 00:08:46,959

all the things you can because all those

173

00:08:51,190 --> 00:08:48,480

subjects are important

174

00:08:52,949 --> 00:08:51,200

things like your your language learning

175

00:08:54,949 --> 00:08:52,959

a really good english and maybe learning

176
00:08:57,750 --> 00:08:54,959
a foreign language would be very helpful

177
00:08:59,750 --> 00:08:57,760
as an astronaut too over

178
00:09:03,030 --> 00:08:59,760
what do you consider to be the best part

179
00:09:04,870 --> 00:09:03,040
of your work ever

180
00:09:06,389 --> 00:09:04,880
well the best part of my work is getting

181
00:09:08,630 --> 00:09:06,399
to work with so many people around the

182
00:09:10,710 --> 00:09:08,640
world on the international space station

183
00:09:12,790 --> 00:09:10,720
because we're all working together to do

184
00:09:15,430 --> 00:09:12,800
something very special for our future

185
00:09:17,430 --> 00:09:15,440
that's the absolute best but i also love

186
00:09:19,750 --> 00:09:17,440
flying in rockets and i love floating

187
00:09:21,430 --> 00:09:19,760
inside the space station let's love

188
00:09:24,389 --> 00:09:21,440

looking at the earth from a long ways

189

00:09:26,310 --> 00:09:24,399

away over one minute to launch a fire's

190

00:09:28,310 --> 00:09:26,320

a big risk what would happen if there

191

00:09:30,949 --> 00:09:28,320

was a serious fire that got out of

192

00:09:33,030 --> 00:09:30,959

control over

193

00:09:35,190 --> 00:09:33,040

there's some risk from fires and if we

194

00:09:36,710 --> 00:09:35,200

have to we would evacuate the space

195

00:09:40,630 --> 00:09:36,720

station we do have some fire

196

00:09:45,590 --> 00:09:43,030

okay everyone at mount rusley could we