



# MARK VANDE HEI

BREAKING RECORDS FOR SCIENCE

1  
00:00:03,270 --> 00:00:00,389

[Music]

2  
00:00:05,829 --> 00:00:03,280

good morning expedition 64. good morning

3  
00:00:07,909 --> 00:00:05,839

expedition 65. good morning expedition

4  
00:00:10,950 --> 00:00:07,919

66 we are happy to be working with you

5  
00:00:12,950 --> 00:00:10,960

today good morning

6  
00:00:15,110 --> 00:00:12,960

anytime you can take science experiments

7  
00:00:16,630 --> 00:00:15,120

and change the variables you learn

8  
00:00:18,790 --> 00:00:16,640

something new and the space station

9  
00:00:20,070 --> 00:00:18,800

provides unique ability to have

10  
00:00:21,590 --> 00:00:20,080

solutions where you don't have

11  
00:00:23,509 --> 00:00:21,600

sedimentation where you can keep a

12  
00:00:25,589 --> 00:00:23,519

homogenous mixture for example buoyant

13  
00:00:27,589 --> 00:00:25,599

forces just don't work the same way so

14

00:00:29,029 --> 00:00:27,599

the way combustion works is different

15

00:00:31,109 --> 00:00:29,039

but also i'd say

16

00:00:33,910 --> 00:00:31,119

space is exciting because we human

17

00:00:35,750 --> 00:00:33,920

beings are explorers at our core and we

18

00:00:37,750 --> 00:00:35,760

want to understand better how we fit

19

00:00:39,750 --> 00:00:37,760

into the vast scheme of things and the

20

00:00:40,869 --> 00:00:39,760

further we go the more we learn

21

00:00:43,270 --> 00:00:40,879

yeah

22

00:00:45,430 --> 00:00:43,280

what was your favorite experiment on the

23

00:00:47,590 --> 00:00:45,440

international space station

24

00:00:49,910 --> 00:00:47,600

toby great question my favorite

25

00:00:51,990 --> 00:00:49,920

experiment was the one that i got to eat

26  
00:00:53,990 --> 00:00:52,000  
it was us growing hatch chili peppers in

27  
00:00:56,389 --> 00:00:54,000  
our plant habitat and some of them got

28  
00:00:58,150 --> 00:00:56,399  
frozen to go back to the ground but many

29  
00:01:00,549 --> 00:00:58,160  
got to stay with us and we ate them

30  
00:01:03,910 --> 00:01:00,559  
station huntsville on two we have video

31  
00:01:06,390 --> 00:01:03,920  
in node one look at those chili peppers

32  
00:01:08,789 --> 00:01:06,400  
what we're doing in effect is practicing

33  
00:01:10,149 --> 00:01:08,799  
keeping people healthy on a long trip

34  
00:01:12,630 --> 00:01:10,159  
through space

35  
00:01:14,710 --> 00:01:12,640  
the big difference is when we get our

36  
00:01:15,510 --> 00:01:14,720  
first folks to mars we're not going to

37  
00:01:17,749 --> 00:01:15,520  
have

38  
00:01:19,030 --> 00:01:17,759

a staff of nurses and doctors there to

39

00:01:20,230 --> 00:01:19,040

make sure we're healthy and take care of

40

00:01:22,230 --> 00:01:20,240

us so

41

00:01:24,310 --> 00:01:22,240

being able to contribute to that is

42

00:01:25,350 --> 00:01:24,320

something i will always be very very

43

00:01:27,670 --> 00:01:25,360

proud of

44

00:01:29,429 --> 00:01:27,680

on behalf of the entire control team we

45

00:01:32,310 --> 00:01:29,439

just wanted to say congratulations to

46

00:01:33,990 --> 00:01:32,320

you and piotr on 300 days in space and

47

00:01:35,510 --> 00:01:34,000

we're just so proud of you and all the

48

00:01:37,109 --> 00:01:35,520

work you're doing that was very kind to

49

00:01:38,310 --> 00:01:37,119

you to say this is definitely a team

50

00:01:39,270 --> 00:01:38,320

accomplishment thanks again for the

51

00:01:41,109 --> 00:01:39,280

words

52

00:01:42,950 --> 00:01:41,119

it's a beautiful view when you turn off

53

00:01:45,190 --> 00:01:42,960

all the lights inside the space station

54

00:01:47,590 --> 00:01:45,200

and you can look out the window and it

55

00:01:49,510 --> 00:01:47,600

is glorious and this very thin

56

00:01:53,030 --> 00:01:49,520

atmosphere which is essential to our

57

00:01:54,630 --> 00:01:53,040

existence that's a very finite resource

58

00:01:57,830 --> 00:01:54,640

that we need to protect

59

00:01:59,990 --> 00:01:57,840

i will miss the certainty that every day

60

00:02:02,310 --> 00:02:00,000

i'm spending contributing with

61

00:02:04,149 --> 00:02:02,320

innovations in science technological

62

00:02:05,749 --> 00:02:04,159

demonstrations that are helping out all

63

00:02:07,270 --> 00:02:05,759

of humanity and pushing the boundaries

64

00:02:09,669 --> 00:02:07,280

of human existence

65

00:02:13,430 --> 00:02:09,679

there is a very strong sense of purpose

66

00:02:20,949 --> 00:02:13,440

for all of us up here as we do this work