



1  
00:00:06,869 --> 00:00:03,669  
this is mission control houston the

2  
00:00:08,710 --> 00:00:06,879  
expedition 34 crew has had a full plate

3  
00:00:10,950 --> 00:00:08,720  
starting off another week in space

4  
00:00:13,669 --> 00:00:10,960  
onboard the international space station

5  
00:00:15,990 --> 00:00:13,679  
working on station maintenance tasks and

6  
00:00:18,870 --> 00:00:16,000  
scientific experiments while preparing

7  
00:00:21,429 --> 00:00:18,880  
for a new cargo ship to arrive and for a

8  
00:00:22,950 --> 00:00:21,439  
soyuz spacecraft to depart in about

9  
00:00:25,349 --> 00:00:22,960  
three weeks time

10  
00:00:27,910 --> 00:00:25,359  
after a morning exercise session station

11  
00:00:30,550 --> 00:00:27,920  
commander kevin ford went to work doing

12  
00:00:33,350 --> 00:00:30,560  
maintenance on the amine swingbed that's

13  
00:00:34,750 --> 00:00:33,360

a technology demonstration payload

14

00:00:37,670 --> 00:00:34,760

that's testing whether the

15

00:00:39,830 --> 00:00:37,680

vacuum-generated immune system can be an

16

00:00:42,150 --> 00:00:39,840

efficient and effective system for

17

00:00:44,790 --> 00:00:42,160

removing carbon dioxide from the

18

00:00:47,270 --> 00:00:44,800

spacecraft's crew area he will complete

19

00:00:49,830 --> 00:00:47,280

that task tomorrow and the teams will

20

00:00:51,750 --> 00:00:49,840

then evaluate whether or not there is a

21

00:00:54,549 --> 00:00:51,760

need to return any parts of this

22

00:00:56,069 --> 00:00:54,559

hardware to the earth on the next dragon

23

00:00:58,229 --> 00:00:56,079

cargo ship

24

00:01:00,630 --> 00:00:58,239

also this morning flight engineer tom

25

00:01:03,590 --> 00:01:00,640

marshburn was setting up for a planned

26  
00:01:05,509 --> 00:01:03,600  
tuesday experiment run with the spheres

27  
00:01:08,230 --> 00:01:05,519  
vertigo experiment that's a

28  
00:01:11,590 --> 00:01:08,240  
demonstration of technologies for visual

29  
00:01:14,950 --> 00:01:11,600  
inspection and navigation the plan is to

30  
00:01:18,149 --> 00:01:14,960  
fly two spheres satellites inside the

31  
00:01:20,630 --> 00:01:18,159  
station to construct a 3d model of

32  
00:01:23,590 --> 00:01:20,640  
another object with the goal of having

33  
00:01:27,030 --> 00:01:23,600  
the satellites use that model to guide

34  
00:01:28,710 --> 00:01:27,040  
their own navigation during flight

35  
00:01:30,950 --> 00:01:28,720  
ford and marshburn joined up later in

36  
00:01:33,830 --> 00:01:30,960  
the day to practice operations with

37  
00:01:36,230 --> 00:01:33,840  
canadarm2 for this saturday's grapple

38  
00:01:36,950 --> 00:01:36,240

and birthing of the next dragon cargo

39

00:01:39,030 --> 00:01:36,960

ship

40

00:01:41,030 --> 00:01:39,040

this dragon is due to launch from the

41

00:01:44,389 --> 00:01:41,040

cape canaveral air force station on

42

00:01:46,789 --> 00:01:44,399

friday morning at 9 10 a.m central time

43

00:01:49,429 --> 00:01:46,799

and arrive at the station on saturday

44

00:01:51,270 --> 00:01:49,439

with 1200 pounds of supplies and

45

00:01:53,190 --> 00:01:51,280

experiment materials

46

00:01:55,270 --> 00:01:53,200

flight engineer chris hadfield helped

47

00:01:57,510 --> 00:01:55,280

prepare for the dragon by getting

48

00:02:00,469 --> 00:01:57,520

special communication system for dragon

49

00:02:02,149 --> 00:02:00,479

operations set up in the cupola as well

50

00:02:04,709 --> 00:02:02,159

as packing items that are going to be

51  
00:02:05,590 --> 00:02:04,719  
returned to earth on dragon in late

52  
00:02:07,510 --> 00:02:05,600  
march

53  
00:02:10,150 --> 00:02:07,520  
he started his day doing science work

54  
00:02:12,869 --> 00:02:10,160  
though initializing the binary colloidal

55  
00:02:14,550 --> 00:02:12,879  
alloy test apparatus and photographing

56  
00:02:17,110 --> 00:02:14,560  
samples for that physical science

57  
00:02:19,589 --> 00:02:17,120  
investigation and then looking over

58  
00:02:22,390 --> 00:02:19,599  
training materials for the material

59  
00:02:25,430 --> 00:02:22,400  
science investigation called coarsening

60  
00:02:28,550 --> 00:02:25,440  
in solid liquid mixtures the experiment

61  
00:02:30,790 --> 00:02:28,560  
materials for csIm are going to be

62  
00:02:32,550 --> 00:02:30,800  
arriving on dragon

63  
00:02:34,949 --> 00:02:32,560

flight engineers oleg novitskiy and

64

00:02:37,509 --> 00:02:34,959

evgeny tarelkin devoted the first part

65

00:02:40,630 --> 00:02:37,519

of their day into preparations for

66

00:02:43,670 --> 00:02:40,640

departure they are to be undocking and

67

00:02:47,030 --> 00:02:43,680

landing in the company of kevin ford

68

00:02:48,949 --> 00:02:47,040

on march 14th houston time and today the

69

00:02:51,509 --> 00:02:48,959

two russian crew members worked with the

70

00:02:54,229 --> 00:02:51,519

lower body negative pressure suit which

71

00:02:56,229 --> 00:02:54,239

is a russian apparatus that uses suction

72

00:02:58,790 --> 00:02:56,239

to pull fluids down to the lower

73

00:03:01,430 --> 00:02:58,800

extremities and simulate gravity

74

00:03:04,309 --> 00:03:01,440

allowing crew members to evaluate their

75

00:03:06,710 --> 00:03:04,319

own orthostatic stability flight

76  
00:03:08,630 --> 00:03:06,720  
engineer roman romanenko spent part of

77  
00:03:10,790 --> 00:03:08,640  
his morning doing maintenance in the

78  
00:03:13,190 --> 00:03:10,800  
russian segment of the space station and

79  
00:03:15,509 --> 00:03:13,200  
then transferring items to the progress

80  
00:03:18,229 --> 00:03:15,519  
supply ship and updating the station's

81  
00:03:20,470 --> 00:03:18,239  
inventory management system after lunch

82  
00:03:22,630 --> 00:03:20,480  
he saw to maintenance with some storage

83  
00:03:24,869 --> 00:03:22,640  
batteries in the russian segment

84  
00:03:27,589 --> 00:03:24,879  
while tarelkin cleaned filters in the

85  
00:03:30,149 --> 00:03:27,599  
ventilation system and nowitzki updated

86  
00:03:32,869 --> 00:03:30,159  
the inventory for spare parts for the

87  
00:03:34,949 --> 00:03:32,879  
electron that's the russian system that

88  
00:03:36,070 --> 00:03:34,959

generates oxygen for the crew members to

89

00:03:39,030 --> 00:03:36,080

breathe

90

00:03:41,030 --> 00:03:39,040

expedition 34 crew is looking ahead to a

91

00:03:43,509 --> 00:03:41,040

week filled with continuing science

92

00:03:46,309 --> 00:03:43,519

research that's designed to improve life

93

00:03:48,550 --> 00:03:46,319

on earth as well as help prepare people

94

00:03:50,229 --> 00:03:48,560

for future deep space exploration

95

00:03:52,710 --> 00:03:50,239

they'll also be taking care of the

96

00:03:54,470 --> 00:03:52,720

day-to-day operations and getting ready

97

00:03:56,789 --> 00:03:54,480

to receive a new shipment of fresh