



1  
00:00:08,150 --> 00:00:06,710  
good morning this is mission control

2  
00:00:09,910 --> 00:00:08,160  
houston welcome and thank you for

3  
00:00:13,270 --> 00:00:09,920  
joining us for today's edition of space

4  
00:00:15,110 --> 00:00:13,280  
station live this monday august 19th

5  
00:00:16,630 --> 00:00:15,120  
for the international space station is

6  
00:00:18,950 --> 00:00:16,640  
commander of the complex russian

7  
00:00:21,269 --> 00:00:18,960  
cosmonaut pavel vinogradov flight

8  
00:00:22,470 --> 00:00:21,279  
engineers russian cosmonaut alexander

9  
00:00:25,349 --> 00:00:22,480  
misurkin

10  
00:00:28,390 --> 00:00:25,359  
nasa astronaut chris cassidy

11  
00:00:31,189 --> 00:00:28,400  
russian cosmonaut fiore eurochican

12  
00:00:33,750 --> 00:00:31,199  
european space agency astronaut luca

13  
00:00:35,110 --> 00:00:33,760

parmitano and nasa astronaut karen

14

00:00:36,470 --> 00:00:35,120

nyberg

15

00:00:38,069 --> 00:00:36,480

after a weekend of some light

16

00:00:41,030 --> 00:00:38,079

housekeeping and off-duty time the

17

00:00:43,430 --> 00:00:41,040

expedition 36 crew is back at work for a

18

00:00:44,950 --> 00:00:43,440

busy day of science research

19

00:00:46,790 --> 00:00:44,960

some maintenance and preparation of

20

00:00:49,270 --> 00:00:46,800

another spacewalk outside the orbiting

21

00:00:51,910 --> 00:00:49,280

complex following their russian

22

00:00:54,229 --> 00:00:51,920

record-setting seven-hour 29-minute

23

00:00:56,310 --> 00:00:54,239

spacewalk on friday flight engineers

24

00:00:57,910 --> 00:00:56,320

eurochican and misurkin are spending

25

00:00:59,670 --> 00:00:57,920

some time today to prepare for yet

26  
00:01:02,150 --> 00:00:59,680  
another spacewalk that is scheduled to

27  
00:01:04,310 --> 00:01:02,160  
take place this thursday outside the

28  
00:01:06,230 --> 00:01:04,320  
piers docking compartment

29  
00:01:07,990 --> 00:01:06,240  
the two spacewalkers will venture

30  
00:01:10,550 --> 00:01:08,000  
outside the orbiting complex to replace

31  
00:01:12,630 --> 00:01:10,560  
a laser communications experiment with

32  
00:01:15,429 --> 00:01:12,640  
the platform for the installation of a

33  
00:01:17,990 --> 00:01:15,439  
small optical telescope

34  
00:01:20,230 --> 00:01:18,000  
and also to remove a docking target from

35  
00:01:22,390 --> 00:01:20,240  
the piers docking assembly

36  
00:01:25,109 --> 00:01:22,400  
the two cosmonauts are being debriefed

37  
00:01:27,030 --> 00:01:25,119  
today on last friday's spacewalk they'll

38  
00:01:29,190 --> 00:01:27,040

be reviewing their procedures for the

39

00:01:31,910 --> 00:01:29,200

next excursion and also installing

40

00:01:34,149 --> 00:01:31,920

equipment on their orlan spacesuits

41

00:01:36,390 --> 00:01:34,159

meanwhile flight engineers chris cassidy

42

00:01:38,550 --> 00:01:36,400

karen nyberg and luca parmitano are

43

00:01:39,749 --> 00:01:38,560

working on a variety of science

44

00:01:42,310 --> 00:01:39,759

activities

45

00:01:45,109 --> 00:01:42,320

nyberg is working in the kibo module she

46

00:01:47,510 --> 00:01:45,119

had been uh removing a nanostep

47

00:01:49,749 --> 00:01:47,520

experiment from the solution crystal the

48

00:01:52,149 --> 00:01:49,759

crystallization facility and replacing

49

00:01:54,069 --> 00:01:52,159

it with an ice crystal experiment nyberg

50

00:01:56,630 --> 00:01:54,079

has moved on to

51  
00:01:59,590 --> 00:01:56,640  
another scientific research working with

52  
00:02:01,990 --> 00:01:59,600  
the fluids integrated rack designed to

53  
00:02:04,709 --> 00:02:02,000  
host investigations in areas such as

54  
00:02:06,950 --> 00:02:04,719  
colloids gels bubbles wetting and

55  
00:02:09,109 --> 00:02:06,960  
capillary action

56  
00:02:12,630 --> 00:02:09,119  
including boiling and cooling today she

57  
00:02:14,470 --> 00:02:12,640  
is working with ongoing colloid studies

58  
00:02:16,790 --> 00:02:14,480  
meanwhile cassidy conducts another set

59  
00:02:17,510 --> 00:02:16,800  
of tests with a sphere study spheres

60  
00:02:20,390 --> 00:02:17,520  
that

61  
00:02:23,350 --> 00:02:20,400  
employs three bowling ball free-flying

62  
00:02:26,390 --> 00:02:23,360  
satellites known as synchronize position

63  
00:02:29,110 --> 00:02:26,400

hold engage reorient experimental

64

00:02:30,949 --> 00:02:29,120

satellites these satellites are used to

65

00:02:32,869 --> 00:02:30,959

test techniques that could lead to

66

00:02:34,949 --> 00:02:32,879

advancements

67

00:02:36,949 --> 00:02:34,959

in automated dockings satellite

68

00:02:39,430 --> 00:02:36,959

servicing spacecraft assembly and

69

00:02:42,070 --> 00:02:39,440

emergency repairs

70

00:02:43,990 --> 00:02:42,080

and parmitano has spent some time this

71

00:02:45,750 --> 00:02:44,000

morning conducting the routine

72

00:02:47,670 --> 00:02:45,760

environmental health monitoring work

73

00:02:49,350 --> 00:02:47,680

today by measuring some sound levels

74

00:02:51,110 --> 00:02:49,360

throughout the station

75

00:02:53,270 --> 00:02:51,120

you will also today be working within

76  
00:02:55,750 --> 00:02:53,280  
the microgravity science glove box to

77  
00:02:58,710 --> 00:02:55,760  
conduct an experiment run of the ongoing

78  
00:03:00,949 --> 00:02:58,720  
in space study that looks at the changes

79  
00:03:04,390 --> 00:03:00,959  
of physical properties of colloids and

80  
00:03:05,910 --> 00:03:04,400  
fluids in response to magnetic fields

81  
00:03:07,830 --> 00:03:05,920  
and also each of the crew members will

82  
00:03:10,229 --> 00:03:07,840  
then put in their daily two hours of

83  
00:03:12,470 --> 00:03:10,239  
exercise using the onboard gym equipment

84  
00:03:14,390 --> 00:03:12,480  
that includes a station bicycle a

85  
00:03:16,309 --> 00:03:14,400  
treadmill and an advanced resistive

86  
00:03:18,309 --> 00:03:16,319  
exercise device that simulates

87  
00:03:19,990 --> 00:03:18,319  
weightlifting here on earth the crew

88  
00:03:21,430 --> 00:03:20,000

will then wrap up the day with the final

89

00:03:22,470 --> 00:03:21,440

daily planning conference with the

90

00:03:24,470 --> 00:03:22,480

ground

91

00:03:26,070 --> 00:03:24,480

they will then have time for dinner and

92

00:03:28,070 --> 00:03:26,080

a personal wind down before entering

93

00:03:30,229 --> 00:03:28,080

their sleep period the crew is then