



1
00:00:01,506 --> 00:00:03,506
>> Good morning from Mission
Control Houston and welcome

2
00:00:03,506 --> 00:00:05,706
to today's International
Space Station update,

3
00:00:06,246 --> 00:00:08,296
joining us here inside of
the Flight Control Room

4
00:00:08,296 --> 00:00:09,856
at the Johnson Space
Center in Houston,

5
00:00:09,856 --> 00:00:12,646
Texas with the Orbit 2
Team currently on console,

6
00:00:12,646 --> 00:00:14,416
monitoring this orbiting
laboratory.

7
00:00:15,676 --> 00:00:18,366
Team being led today by
Flight Director Ed Van Cise,

8
00:00:18,736 --> 00:00:21,076
joining him at the
Capcom position right next

9
00:00:21,076 --> 00:00:23,756
to him is Cathy Bolt, serving
as the communication link

10
00:00:23,756 --> 00:00:25,896
between all of our teams
down here on the ground

11
00:00:26,216 --> 00:00:27,696
and the astronauts up in space.

12
00:00:28,836 --> 00:00:31,906
And there's the astronauts right
now, the crew of Expedition 34,

13
00:00:32,666 --> 00:00:36,186
moving into the third full
day as an Expedition 34 crew.

14
00:00:36,996 --> 00:00:37,976
All the way on the left there,

15
00:00:37,976 --> 00:00:40,316
the Commander NASA
Astronaut Kevin Ford

16
00:00:40,316 --> 00:00:42,586
on his second spaceflight,
he is joined

17
00:00:42,586 --> 00:00:46,396
by two Russian Cosmonauts Oleg
Novitsky and Evgeny Tarelkin,

18
00:00:46,636 --> 00:00:47,796
both rookie space fliers

19
00:00:47,796 --> 00:00:50,266
on their first flight onboard
the International Space Station.

20
00:00:50,776 --> 00:00:56,076
The crew moving into its first
full workday following a day off

21
00:00:56,116 --> 00:01:00,096
and a light duty day

yesterday, which was due

22

00:01:00,096 --> 00:01:02,906
to the extensive work they
were doing over the weekend

23

00:01:02,906 --> 00:01:05,376
to prepare for an undocking
and departure of three

24

00:01:05,376 --> 00:01:10,476
of their former crewmembers,
Sunni Williams,

25

00:01:10,556 --> 00:01:11,836
[assumed spelling]
[inaudible] successfully landing

26

00:01:11,836 --> 00:01:16,206
in Kazakhstan back on Sunday,
bringing an end to Expedition 33

27

00:01:16,206 --> 00:01:18,236
and beginning Expedition 34.

28

00:01:20,456 --> 00:01:23,376
Today, Commander Kevin Ford
has been working inside

29

00:01:23,416 --> 00:01:25,196
of the material science
laboratory

30

00:01:25,196 --> 00:01:27,916
and doing some cleaning
of the cooling zone.

31

00:01:28,496 --> 00:01:31,116
A material science
laboratory is used

32

00:01:31,116 --> 00:01:34,026
to provide controlled
material processing conditions

33

00:01:34,026 --> 00:01:35,656
on board the International
Space Station

34

00:01:36,086 --> 00:01:38,296
and also some advanced
diagnostics

35

00:01:38,376 --> 00:01:42,116
and then it allows many material
types, such as different metals

36

00:01:42,116 --> 00:01:46,476
and alloys, also materials such
as polymers and semiconductors,

37

00:01:46,836 --> 00:01:49,586
even ceramics and crystals
and different types of glass

38

00:01:49,586 --> 00:01:52,766
to be studied in order to
discover new applications

39

00:01:52,766 --> 00:01:54,846
for all of these
existing materials

40

00:01:55,296 --> 00:01:59,276
and then potentially develop
new or improved materials.

41

00:02:00,476 --> 00:02:04,196
Aside from that work, he's been
doing some sample analysis today

42

00:02:04,196 --> 00:02:06,376
inside of the station's
environmental health system

43

00:02:06,806 --> 00:02:09,726
over in the total organic
carbon analyzer, which is part

44

00:02:09,726 --> 00:02:11,506
of the station's
water recovery system,

45

00:02:11,906 --> 00:02:14,226
which [inaudible] constantly
monitor the astronaut's drinking

46

00:02:14,226 --> 00:02:17,396
water, make sure that it is
healthy and safe for them.

47

00:02:18,826 --> 00:02:21,966
Meanwhile, Russian Cosmonaut
Oleg Novitsky immediately upon

48

00:02:21,966 --> 00:02:23,416
waking up today, participated

49

00:02:23,416 --> 00:02:25,066
in the Russian [inaudible]
experiment,

50

00:02:25,526 --> 00:02:29,176
which looks to assess the human
body's adaptation mechanism

51

00:02:29,486 --> 00:02:33,656
and also look into
developing different methods

52

00:02:33,656 --> 00:02:37,286

to prevent the unfavorable
impact that zero gravity has

53

00:02:37,286 --> 00:02:39,146

on the human body's
hydration status

54

00:02:39,506 --> 00:02:42,866

and also any potential
countermeasures they can develop

55

00:02:42,866 --> 00:02:44,096

to assist the astronauts

56

00:02:44,096 --> 00:02:48,066

in their post flight orthostatic
tolerance, just something

57

00:02:48,066 --> 00:02:49,266

that helps them adapt better

58

00:02:49,266 --> 00:02:52,446

to normal gravity once they
come back down to earth.

59

00:02:53,256 --> 00:02:57,226

Aside from this, he's been
fixing a electrocardiogram

60

00:02:57,226 --> 00:03:01,036

monitor to himself for -- to be
in a 24 hour monitoring session,

61

00:03:01,516 --> 00:03:03,366

and was also transferring
some cargo

62

00:03:03,366 --> 00:03:06,666

out of the 49 progress
vehicle, then moving some items

63

00:03:06,666 --> 00:03:10,326
to eventually be discarded into
the also docked 48 progress.

64

00:03:11,906 --> 00:03:14,986
Then our third Russian Cosmonaut
Evgeny Tarelkin is taking some

65

00:03:14,986 --> 00:03:16,456
blood and saliva samples today

66

00:03:16,456 --> 00:03:18,826
for a Russian crew health
monitoring experiment

67

00:03:19,176 --> 00:03:21,666
that he'll do throughout his
long duration spaceflight,

68

00:03:22,056 --> 00:03:25,426
as the controllers both here in
Mission Control Houston and over

69

00:03:25,426 --> 00:03:29,196
in Kirov, Russia, constantly
monitoring the health status

70

00:03:29,196 --> 00:03:32,076
of these astronauts throughout
their expedition flights.

71

00:03:32,646 --> 00:03:33,696
Aside from that, he'll be

72

00:03:33,696 --> 00:03:36,006
over in the Russian segment
doing an audit of some

73

00:03:36,006 --> 00:03:38,776
of the remaining lights
in the spare units onboard

74

00:03:39,186 --> 00:03:40,616
and also doing some maintenance

75

00:03:40,986 --> 00:03:45,466
on the Russian spare atmosphere
purification system emergency

76

00:03:45,466 --> 00:03:48,866
vacuum vales, one of the
more complex devices inside

77

00:03:48,866 --> 00:03:51,406
of the station's air
revitalization system.

78

00:03:51,886 --> 00:03:55,306
Again, much like the
water recovery system

79

00:03:55,306 --> 00:03:57,436
that Kevin Ford is
working on today

80

00:03:57,436 --> 00:03:59,956
that air purification
system dedicated

81

00:03:59,956 --> 00:04:02,406
to ensuring these
astronauts have a safe