

EXPEDITION 34



**OLEG NOVITSKIY**  
Flight Engineer

1  
00:00:01,926 --> 00:00:04,756  
And good morning from Mission  
Control Houston and welcome

2  
00:00:04,756 --> 00:00:07,006  
to today's International  
Space Station Update.

3  
00:00:07,686 --> 00:00:09,776  
Joining us here inside of  
the Flight Control Room

4  
00:00:09,776 --> 00:00:11,816  
at the Johnson Space  
Center in Houston, Texas,

5  
00:00:12,316 --> 00:00:14,946  
looking over as the Orbit Two  
Team is monitoring all the

6  
00:00:14,946 --> 00:00:17,026  
systems onboard the  
orbiting laboratory.

7  
00:00:17,926 --> 00:00:21,206  
Today's team is being led by  
veteran Flight Director Paul Dye

8  
00:00:21,796 --> 00:00:24,646  
and joining him at the Capcom  
position is Anna Fischer.

9  
00:00:25,196 --> 00:00:28,656  
She'll be serving as the  
communication link between all

10  
00:00:28,656 --> 00:00:30,356  
of our teams down  
here on the ground

11  
00:00:30,386 --> 00:00:31,966  
and the astronauts up in space.

12  
00:00:32,636 --> 00:00:35,916  
Those astronauts right now  
are the crew of Expedition 34.

13  
00:00:37,156 --> 00:00:39,986  
They're being led by  
NASA astronaut Kevin Ford

14  
00:00:40,476 --> 00:00:45,606  
and he is joined by three  
Russian cosmonauts, one Canadian

15  
00:00:45,846 --> 00:00:47,426  
and one fellow NASA astronaut.

16  
00:00:47,426 --> 00:00:49,926  
Kevin Ford there in  
the front row the left,

17  
00:00:50,386 --> 00:00:52,636  
behind him Russian  
cosmonauts Oleg Novitskiy

18  
00:00:52,636 --> 00:00:54,166  
and Evgeny Tarelkin who joined

19  
00:00:54,556 --> 00:00:57,176  
with Ford onboard the  
International Space Station back

20  
00:00:57,176 --> 00:00:57,846  
in October.

21  
00:00:58,336 --> 00:01:02,146  
And then there on the right we  
have our three newest station

22

00:01:02,146 --> 00:01:04,666  
crew members, Russian  
cosmonaut Roman Romanenko,

23

00:01:05,206 --> 00:01:07,596  
Canadian astronaut  
Chris Hadfield

24

00:01:07,746 --> 00:01:09,566  
and NASA astronaut  
Tom Marshburn.

25

00:01:10,126 --> 00:01:13,356  
A very busy day as work is

26

00:01:13,356 --> 00:01:16,286  
in full swing onboard the  
International Space Station

27

00:01:16,786 --> 00:01:18,636  
starting off with  
Commander Kevin Ford

28

00:01:18,636 --> 00:01:21,726  
who a little bit earlier this  
morning was performing a monthly

29

00:01:21,726 --> 00:01:23,426  
periodic fitness evaluation.

30

00:01:23,806 --> 00:01:26,346  
He was doing that on the  
station's CEVIS device

31

00:01:26,346 --> 00:01:31,496  
which is the cycle ergometer  
with isolation stabilization.

32

00:01:31,496 --> 00:01:35,576  
It's one of the stationary  
cycle bikes onboard that is used

33  
00:01:35,576 --> 00:01:37,976  
for exercise by these  
astronauts doing

34  
00:01:37,976 --> 00:01:39,636  
that fitness evaluation doing is

35  
00:01:39,676 --> 00:01:42,246  
that constantly monitor their  
health during their six-month

36  
00:01:42,246 --> 00:01:43,586  
increments onboard the station.

37  
00:01:44,746 --> 00:01:46,896  
Aside from that,  
Commander Ford was working

38  
00:01:46,896 --> 00:01:50,326  
on the Combustion Integrated  
Rack doing some hardware gather

39  
00:01:50,866 --> 00:01:52,816  
for some upcoming experiments.

40  
00:01:53,476 --> 00:01:55,306  
And following that  
and a little bit later

41  
00:01:55,306 --> 00:01:58,596  
in this hour he'll be doing  
a ham radio pass using a

42  
00:01:58,596 --> 00:02:01,096  
traditional ham radio, much  
like those found on the ground

43

00:02:01,096 --> 00:02:03,986  
down here, talking  
to some participants

44

00:02:03,986 --> 00:02:07,356  
of the Missoula Family  
YMCA in Missoula, Montana.

45

00:02:08,796 --> 00:02:12,166  
Meanwhile, Russian cosmonaut  
Oleg Novitskiy was emptying

46

00:02:12,166 --> 00:02:14,426  
out the soft tank over  
in the Russian portion

47

00:02:14,806 --> 00:02:16,356  
of the International  
Space Station.

48

00:02:16,686 --> 00:02:22,626  
He was also working to  
open up some of the holes

49

00:02:22,626 --> 00:02:25,286  
in the partitions near the  
Russian service module,

50

00:02:25,286 --> 00:02:28,546  
also known as Zvezda,  
working to run a few cables

51

00:02:28,546 --> 00:02:31,936  
for the eventual Mini-Laboratory  
Module's integration

52

00:02:31,936 --> 00:02:33,576  
with the rest of the  
station structure.

53

00:02:34,486 --> 00:02:39,796

His colleague Russian cosmonaut  
Evgeny Tarelkin was doing some

54

00:02:40,106 --> 00:02:42,676

cleaning work throughout the  
Russian segment today cleaning

55

00:02:42,676 --> 00:02:46,516

off some of the panel vent  
screens throughout the Air

56

00:02:46,516 --> 00:02:49,616

Revitalization System inside  
of the station systems.

57

00:02:49,616 --> 00:02:51,806

He's also cleaning out  
some of the dust filters

58

00:02:51,806 --> 00:02:55,256

and replacing those inside of  
the Mini-Research Module 1,

59

00:02:55,756 --> 00:03:00,926

also known as Rassvet, where  
the Soyuz TMA-07M spacecraft is

60

00:03:00,926 --> 00:03:01,626

currently docked.

61

00:03:01,626 --> 00:03:04,256

He'll also be doing a  
few routine replacements

62

00:03:04,536 --> 00:03:05,836

on the Russian toilet system.

63

00:03:07,076 --> 00:03:09,876  
Our third Russian  
cosmonaut Roman Romanenko,

64  
00:03:10,246 --> 00:03:13,306  
again who just joined the  
station crew back in December,

65  
00:03:13,676 --> 00:03:15,946  
is working on the Plasma  
Crystal experiment today.

66  
00:03:15,946 --> 00:03:19,416  
It's a fairly complex look  
into studying the growth

67  
00:03:19,416 --> 00:03:21,996  
of plasma dust structures  
in zero gravity.

68  
00:03:22,626 --> 00:03:28,106  
This study also looks at  
particle cloud behavior

69  
00:03:28,106 --> 00:03:30,376  
and internal flow  
structures inside

70  
00:03:31,706 --> 00:03:33,316  
of these plasma dust crystals.

71  
00:03:33,796 --> 00:03:36,376  
He'll also be joining  
with Evgeny Tarelkin

72  
00:03:36,426 --> 00:03:40,206  
in their ongoing efforts  
to make a documentary

73  
00:03:40,206 --> 00:03:42,416

about life onboard the  
International Space Station

74

00:03:42,826 --> 00:03:44,506  
being done for Russian agencies.

75

00:03:44,926 --> 00:03:49,736  
Our Canadian astronaut Chris  
Hadfield was in his second day

76

00:03:49,736 --> 00:03:51,236  
of collecting biological samples

77

00:03:51,236 --> 00:03:54,316  
for the Human Research Facility  
taking blood and urine samples

78

00:03:54,316 --> 00:03:55,396  
and then storing them in one

79

00:03:55,396 --> 00:03:57,786  
of the cryogenic freezers  
onboard the International

80

00:03:57,786 --> 00:03:58,426  
Space Station.

81

00:03:59,016 --> 00:04:02,236  
He'll also be running  
the InSpace-3 experiment.

82

00:04:02,606 --> 00:04:05,306  
InSpace a fairly  
long acronym standing

83

00:04:05,306 --> 00:04:08,756  
for Investigating the Structure  
of Paramagnetic Aggregates

84

00:04:08,756 --> 00:04:10,066  
from Colloidal Emulsions,

85

00:04:10,496 --> 00:04:13,586  
this another fairly complex  
study taking advantage

86

00:04:13,586 --> 00:04:17,406  
of that microgravity environment  
looking to obtain data on fluids

87

00:04:17,776 --> 00:04:20,136  
that contain ellipsoid  
shape particles

88

00:04:20,876 --> 00:04:23,466  
that then change their physical  
properties of the fluids

89

00:04:23,466 --> 00:04:26,236  
that they're in response  
to magnetic fields.

90

00:04:27,696 --> 00:04:31,186  
And our final Expedition 34  
crew member Tom Marshburn,

91

00:04:31,186 --> 00:04:32,456  
another NASA astronaut,

92

00:04:32,866 --> 00:04:34,776  
was working with the  
Environmental Health System

93

00:04:34,776 --> 00:04:37,476  
onboard the station setting  
up some acoustic dosimeters

94

00:04:37,826 --> 00:04:40,136  
which measure noise

loads throughout the

95

00:04:40,136 --> 00:04:40,996  
station structure.

96

00:04:41,476 --> 00:04:42,736  
He was also working