
EXPEDITION 30
OLEG KONONENKO
Flight Engineer

1
00:00:02,476 --> 00:00:06,756
Good morning and welcome to today's
International Space Station update hour.

2
00:00:07,696 --> 00:00:10,906
You're looking now inside the of
flight control room here in Houston,

3
00:00:10,906 --> 00:00:13,446
Texas where the Orbit 2 team is currently

4
00:00:13,446 --> 00:00:17,646
on console monitoring all the systems
on board the orbiting complex.

5
00:00:18,776 --> 00:00:23,766
Today's team is being led by Flight Director
Ron Spencer there in the center of your screen,

6
00:00:24,146 --> 00:00:27,986
and joining him at the console
position is Capcom Hal Getzelman,

7
00:00:28,256 --> 00:00:31,696
serving as the voice link
communication between controllers here

8
00:00:31,696 --> 00:00:34,436
on the ground and the astronauts in space.

9
00:00:35,926 --> 00:00:46,406
And those astronauts are the crew of Expedition
30 being led by NASA astronaut Dan Burbank there

10
00:00:46,406 --> 00:00:51,786
in the front left of your screen and then behind
him are Russian cosmonauts Anton Shkaplerov

11
00:00:51,836 --> 00:00:53,376

and Anatoly Ivanishin.

12
00:00:54,466 --> 00:01:00,326
Also across the back row are European
Space Agency astronaut Andre Kuipers,

13
00:01:00,706 --> 00:01:06,636
NASA astronaut Don Pettit and finally in the
front right Russian cosmonaut Oleg Kononenko.

14
00:01:07,146 --> 00:01:12,966
A fairly maintenance-heavy day for the
astronauts currently on board the station today,

15
00:01:13,286 --> 00:01:16,836
with many of the crew members taking
up their day with some cleaning

16
00:01:16,836 --> 00:01:19,846
and replacement activities on
many of the station systems,

17
00:01:20,356 --> 00:01:26,886
starting with Commander Burbank who's working
with Andre Kuipers in the Cabin Fan Assembly

18
00:01:26,886 --> 00:01:30,906
and ventilation ducts continuing
some work that started yesterday.

19
00:01:31,406 --> 00:01:35,876
In addition to assisting
Kuipers with these activities,

20
00:01:36,286 --> 00:01:41,646
Commander Burbank will also be working on the
Atmosphere Revitalization bacteria filters,

21
00:01:41,926 --> 00:01:48,716
cleaning those out in all of the U.S. modules,

as well as taking a few samples in the Node 3

22
00:01:48,716 --> 00:01:51,046
for eventual return to the ground.

23
00:01:51,446 --> 00:01:56,496
Russian cosmonaut Anton Shkaplerov
is working on the TVIS system,

24
00:01:56,496 --> 00:02:00,086
or the Treadmill Vibration
Isolation and Stabilization.

25
00:02:00,546 --> 00:02:06,556
He will be replacing one of the
chassis on board, and then in addition

26
00:02:06,556 --> 00:02:12,016
to these activities he'll be transferring
some fluids into the Progress 46 water tanks

27
00:02:12,256 --> 00:02:15,436
and then flushing out some of
the lines connecting those tanks.

28
00:02:17,436 --> 00:02:22,076
Fellow Russian cosmonaut Anatoly Ivanishin
will be doing some dust filter change

29
00:02:22,076 --> 00:02:27,376
out in the Zvezda service module on the Russian
segment as well as collecting some air samples

30
00:02:27,376 --> 00:02:30,206
in both Zvezda and the Zarya modules.

31
00:02:30,506 --> 00:02:35,946
He'll also be doing some cargo transfer work
from the Progress 46 spacecraft that docked,

32
00:02:36,716 --> 00:02:42,806
as well as doing the Seiner experiment, which
has the astronauts make ocean observations

33
00:02:43,146 --> 00:02:47,136
and help researchers on the
ground investigate and find some

34
00:02:47,136 --> 00:02:52,036
of the most bioproductive
water areas around the globe.

35
00:02:52,206 --> 00:02:56,596
Third Russian cosmonaut Oleg
Kononenko started his day very early

36
00:02:56,596 --> 00:03:03,126
on with the Sprut-2 investigation which
helps to research the adaptation mechanisms

37
00:03:03,126 --> 00:03:08,766
of the human body and the impact of zero gravity
on how well these astronauts stay hydrated.

38
00:03:09,306 --> 00:03:15,746
He'll also be doing some cleaning work, working
on the fan screens in the Mini-Research Module 1

39
00:03:15,746 --> 00:03:19,376
or Rassvet before moving
on to replace some lights

40
00:03:19,376 --> 00:03:22,526
and light panel fuses across
the Russian segment.

41
00:03:24,506 --> 00:03:29,696
European Space Agency astronaut Andre Kuipers,
as mentioned, is in day two of working

42
00:03:29,696 --> 00:03:34,956
on that Cabin Fan Assembly and ventilation
duct system inside of the Columbus module.

43
00:03:35,466 --> 00:03:40,096
He will be spending the bulk of his day
working on this and then doing some cleanup

44
00:03:40,096 --> 00:03:42,556
and stow activities once he's completed those.

45
00:03:43,166 --> 00:03:48,226
And then finally NASA astronaut
Don Pettit is working again

46
00:03:48,226 --> 00:03:50,116
with the Capillary Flow experiment.

47
00:03:50,666 --> 00:03:54,956
These are a suite of different fluid
experiments on board the station

48
00:03:54,956 --> 00:04:00,036
that investigate capillary flows of
fluids through various containers.

49
00:04:01,436 --> 00:04:07,126
This research is hoping to improve current
models used here on the ground that are used

50
00:04:07,126 --> 00:04:13,086
by designers of different low gravity fluid
systems, most commonly used in spacecraft,

51
00:04:14,476 --> 00:04:16,966
and will have vast future implications.

52
00:04:17,346 --> 00:04:21,556
He will also be taking some samples

for the Human Research Facility,

53
00:04:21,696 --> 00:04:24,336
collecting biological samples
such as crew urine.

54
00:04:24,826 --> 00:04:30,216
That helps to research again the microgravity
environment on board the station and its effects

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00:04:30,216 --> 00:04:33,536
on the human body over extended periods of time.

56
00:04:34,896 --> 00:04:38,406
After all this, the crew will have a daily
planning conference at the end of the day

57
00:04:38,406 --> 00:04:40,806
where they'll recap everything before moving