

A portrait of Oleg Kononenko, a Flight Engineer, wearing a white space suit with blue and red accents. He is smiling and looking towards the camera. The background is a composite image: the left side shows a starry night sky with a nebula, and the right side shows a view of a space station or satellite structure in space. The text "EXPEDITION 30" is written vertically on the left side.

EXPEDITION 30

OLEG KONONENKO
Flight Engineer

1

00:00:01,436 --> 00:00:05,206

Good morning and welcome to today's International Space Station Update.

2

00:00:06,096 --> 00:00:10,206

The crew today onboard the station is continuing a few maintenance activities

3

00:00:10,206 --> 00:00:14,876

that have been going on since yesterday, as well as being involved in a number experiments.

4

00:00:15,966 --> 00:00:19,636

Starting off with Commander Dan Burbank who is continuing the work

5

00:00:19,636 --> 00:00:25,006

that he started again yesterday, removing and replacing a catalytic reactor inside

6

00:00:25,006 --> 00:00:29,246

of the station's Water Recovery System that failed when a leak was found.

7

00:00:29,696 --> 00:00:34,406

He's working to install a temporary catalytic reactor filter

8

00:00:34,786 --> 00:00:38,296

and he is being assisted throughout by NASA astronaut Don Pettit.

9

00:00:38,786 --> 00:00:42,256

He also took some time to help out Andre Kuipers

10

00:00:42,286 --> 00:00:47,766

with an Integrated Cardiovascular ultrasound scan earlier today, and just a little bit later

11

00:00:47,766 --> 00:00:52,316
in the hour will be involved in a
U.S. Public Affairs event speaking

12
00:00:52,316 --> 00:00:54,326
with reporters from CBS Radio.

13
00:00:56,166 --> 00:01:00,726
Meanwhile, Russian cosmonaut Anton
Shkaplerov is doing a food container audit

14
00:01:01,066 --> 00:01:03,056
in the Russian segment onboard the station,

15
00:01:03,416 --> 00:01:09,826
and also was performing the Uragan Earth
Observations experiment which is a project

16
00:01:09,826 --> 00:01:12,136
that looks to monitor the areas where natural

17
00:01:12,136 --> 00:01:17,816
and man-made disasters are forecasted
utilizing the unique vantage point

18
00:01:17,956 --> 00:01:20,566
that the International Space Station provides.

19
00:01:22,236 --> 00:01:27,126
Meanwhile, his fellow Russian cosmonaut
Anatoly Ivanishin, immediately upon wakeup,

20
00:01:27,546 --> 00:01:31,656
started his day with the Sprut-2
experiment, which is an investigation

21
00:01:31,716 --> 00:01:38,396
into the unfavorable impact zero gravity
has on the astronaut's hydration abilities,

22
00:01:38,586 --> 00:01:43,956
and also their post-flight orthostatic
tolerance, or the distribution of bodily fluids.

23
00:01:44,366 --> 00:01:47,956
He is also working on inspecting
and cleaning some

24
00:01:47,956 --> 00:01:50,816
of the computer system laptops
in the Russian segment.

25
00:01:51,186 --> 00:01:54,346
And also doing something called
the Fungistat treatment in some

26
00:01:54,346 --> 00:01:57,196
of the areas behind the panels
in the Zarya module.

27
00:01:57,726 --> 00:02:04,136
The third Russian cosmonaut Oleg
Kononenko is doing some stowage work

28
00:02:04,136 --> 00:02:07,936
with that progress 46 resupply
vehicle moving some cargo around.

29
00:02:08,336 --> 00:02:13,136
And is also joining Ivanishin in that
Fungistat treatment process working

30
00:02:13,136 --> 00:02:16,156
on a few additional panels inside of Zarya.

31
00:02:17,896 --> 00:02:23,826
European Space Agency astronaut Andre Kuipers
did an Integrated Cardiovascular Scan earlier

32

00:02:23,826 --> 00:02:24,436

this morning.

33

00:02:24,926 --> 00:02:30,096

That is a research project that looks to study cardiac atrophy which occurs during spaceflight.

34

00:02:30,436 --> 00:02:33,556

Cardiac atrophy being the weakening of the heart muscles.

35

00:02:34,826 --> 00:02:41,316

And then following that he's been working on some filter inspection and cleaning

36

00:02:41,316 --> 00:02:45,346

in the U.S. segment Atmosphere Revitalization Bacteria filters.

37

00:02:45,766 --> 00:02:48,716

That will take up a good portion of his day today.

38

00:02:49,276 --> 00:02:54,726

The final Expedition 30 crew member Don Pettit was again assisting Commander Burbank

39

00:02:54,726 --> 00:03:00,116

in that Water Recovery System repair, working on removing that failed catalytic reactor.

40

00:03:01,406 --> 00:03:06,076

Following all those activities today he'll be doing some modification work

41

00:03:06,076 --> 00:03:10,286

to the Treadmill-2 rack and the Water Recovery System rack bringing them back

42

00:03:10,326 --> 00:03:12,176

to a nominal configuration.

43

00:03:12,646 --> 00:03:17,816

The other major event going on onboard the station today is the continued work

44

00:03:17,816 --> 00:03:22,216

with the Robotic Refueling Mission where payload controllers down here

45

00:03:22,216 --> 00:03:27,166

on the ground are using the space station's robotic arm to manipulate this payload

46

00:03:27,166 --> 00:03:30,186

which was delivered back in last July.

47

00:03:30,876 --> 00:03:34,246

Today they'll be working with the wire cutter tool

48

00:03:34,246 --> 00:03:37,726

and the multifunction tool cutting a few wires.