



NEXT ON NASA TV



## Expedition 30 In-flight Educational Event

10:20am CT / 11:20am ET

1  
00:00:01,670 --> 00:00:06,340  
Good morning and welcome to today's  
International Space Station update hour.

2  
00:00:06,340 --> 00:00:07,910  
You are joining us now inside

3  
00:00:07,910 --> 00:00:12,140  
of the International Space Station  
flight control room here in Houston Texas

4  
00:00:12,140 --> 00:00:13,640  
where the Orbit 2 team is currently

5  
00:00:13,640 --> 00:00:18,080  
on console monitoring systems  
onboard the orbiting laboratory.

6  
00:00:18,080 --> 00:00:23,940  
Today's team is being led today by veteran  
Flight Director Tony Ceccacci and joining him

7  
00:00:23,940 --> 00:00:29,220  
at the capcom console is Hal Getzleman serving  
as the comm link between controllers here

8  
00:00:29,220 --> 00:00:32,050  
on the ground and the crew up in space.

9  
00:00:32,050 --> 00:00:40,020  
And that crew right now is Expedition  
30, you can see them right here.

10  
00:00:43,810 --> 00:00:51,020  
That Expedition 30 crew being led, in the  
front row left, by NASA astronaut Dan Burbank,

11  
00:00:51,020 --> 00:00:56,280  
and immediately behind him, Russian cosmonauts

Anton Shkaplerov and Anatoly Ivanishin.

12  
00:00:56,280 --> 00:01:01,110  
Continuing across the back row, is European  
Space Agency astronaut Andre Kuipers

13  
00:01:01,110 --> 00:01:05,800  
and NASA astronaut Don Pettit, and in the  
front right is the third Russian cosmonaut

14  
00:01:05,800 --> 00:01:08,480  
Oleg Kononenko.

15  
00:01:08,480 --> 00:01:14,060  
So fairly busy day today for the crew on  
board following an off-duty day yesterday.

16  
00:01:14,060 --> 00:01:16,180  
Starting off with Commander Burbank

17  
00:01:16,180 --> 00:01:21,250  
who immediately began his day  
conducting a conductivity test with some

18  
00:01:21,250 --> 00:01:24,780  
of the electrical systems for the  
Waste and Hygiene Compartment.

19  
00:01:24,780 --> 00:01:30,140  
This is being done following some voltage  
discrepancies that were noted last week

20  
00:01:30,140 --> 00:01:33,730  
by controllers here on the ground  
with the urine monitoring system.

21  
00:01:33,730 --> 00:01:37,770  
And aside from this work on the  
Waste and Hygiene Compartment today,

22

00:01:37,770 --> 00:01:41,720

Commander Burbank will be participating in an educational event

23

00:01:41,720 --> 00:01:44,710

with the O. Henry middle school in Austin Texas.

24

00:01:44,710 --> 00:01:49,750

Joining him will be NASA astronaut Don Pettit and European astronaut AndreKuipers.

25

00:01:49,750 --> 00:01:51,780

That will happen here in just a little while

26

00:01:51,780 --> 00:01:57,390

at about 10:20 a.m. Central time, 11:20 a.m. Eastern.

27

00:01:57,390 --> 00:02:02,770

Meanwhile, Russian cosmonaut Anton Shkaplerov started his day doing some research studies

28

00:02:02,770 --> 00:02:06,850

on the veins in the lower extremities of his own body and then later

29

00:02:06,850 --> 00:02:11,680

in the day doing a power supply swap alongside Anatoly Ivanishin.

30

00:02:11,680 --> 00:02:16,170

Aside from that power supply swap today, Ivanishin has been working

31

00:02:16,170 --> 00:02:22,980

with the Matreyshka experiment which is a Russian research into the amount of radiation

32

00:02:22,980 --> 00:02:27,710

that the astronauts bodies are exposed to during these long-duration spaceflights.

33

00:02:27,710 --> 00:02:32,110

He was taken number of readings from the mannequins sized doll with a number

34

00:02:32,110 --> 00:02:37,290

of dosimeters inside, and he was joined throughout that by his fellow

35

00:02:37,290 --> 00:02:40,550

and third Russian cosmonaut Oleg Kononenko.

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00:02:40,550 --> 00:02:44,760

And while joining Ivanishin in that, Kononenko was also working

37

00:02:44,760 --> 00:02:48,610

on the Russian Relaxation experiment today.

38

00:02:48,610 --> 00:02:51,380

And this is a research study into determining the effects

39

00:02:51,380 --> 00:02:56,110

of various propulsion system exhausts on the Earth's upper atmosphere.

40

00:02:56,110 --> 00:02:58,990

And then it also looks at their affect

41

00:02:58,990 --> 00:03:03,580

on optically sensitive surfaces onboard the station, such as windows,

42

00:03:03,580 --> 00:03:07,970

equipment lenses and solar array panels.

43

00:03:07,970 --> 00:03:12,990

European Space Agency astronaut Andre Kuipers started his day rearranging a few payloads

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00:03:12,990 --> 00:03:18,120

in the Express rack 1, focusing on the Nano racks platform 2 payload.

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00:03:18,120 --> 00:03:23,180

And a little bit later today, he will be working with the VO2max,

46

00:03:23,180 --> 00:03:27,110

which looks to study the respiratory capabilities of astronauts,

47

00:03:27,110 --> 00:03:29,750

taking a number of readings, both before, during,

48

00:03:29,750 --> 00:03:32,050

and after their long-duration spaceflights.

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00:03:32,050 --> 00:03:36,460

He will be setting up some of the system equipment to take those readings.

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00:03:36,460 --> 00:03:41,780

And the final crew member Expedition 30, Don Pettit, is doing some weekly cleaning

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00:03:41,780 --> 00:03:47,000

and housekeeping tasks, trying to keep the station in clean and working order,

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00:03:47,000 --> 00:03:51,890

before doing some work with the Microgravity Science Glovebox.

53

00:03:51,890 --> 00:03:56,850

He will be changing out a laptop that helps  
to control many the experiments inside

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00:03:56,850 --> 00:04:00,350

that glovebox, is used provide  
a sealed environment

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00:04:00,350 --> 00:04:04,670

to conduct various experiments  
including biotechnology, combustion,

56

00:04:04,670 --> 00:04:11,530

science life sciences, fluid physics,  
fundamental physics and material science.

57

00:04:11,530 --> 00:04:15,200

And then following all these  
activities, the crew will end their day

58

00:04:15,200 --> 00:04:17,520

with a daily planning conference, before moving