



1

00:00:01,560 --> 00:00:06,040

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

2

00:00:06,040 --> 00:00:11,760

Getting a look now here inside the flight control room in Houston Texas while the Orbit

3

00:00:11,760 --> 00:00:17,699

Two team is on console monitoring systems onboard the orbiting laboratory.

4

00:00:17,699 --> 00:00:23,660

That team today's being led by flight director Ron Spencer, there in the center of your screen,

5

00:00:23,660 --> 00:00:29,429

and joining him just to the top is Capcom Richard Arnold, serving as the communication

6

00:00:29,429 --> 00:00:35,690

link between controllers here on the ground and the astronauts in space.

7

00:00:35,690 --> 00:00:42,180

And those crew members up there right now are the Expedition 30 crew, and they are being

8

00:00:42,180 --> 00:00:48,870

led by NASA astronaut Dan Burbank, there in the front center of your screen on the left,

9

00:00:48,870 --> 00:00:54,400

and behind him Russian cosmonauts Anton Shkaplerov and Anatoly Ivanishin.

10

00:00:54,400 --> 00:00:59,360

On the right side of the screen you have the remaining three crew members, European Space

11

00:00:59,360 --> 00:01:08,999

Agency astronaut Andre Kuipers, Russian cosmonaut Oleg Kononenko and NASA astronaut Don Pettit.

12

00:01:08,999 --> 00:01:13,680

Crew awoke today at about midnight central time, began their day with a daily daily planning

13

00:01:13,680 --> 00:01:21,590

conference before moving into some fairly rigorous experiment and maintenance activities.

14

00:01:21,590 --> 00:01:29,159

Commander Burbank is finishing up some Internal Thermal Control Subsystem sampling taken some

15

00:01:29,159 --> 00:01:36,689

samples from the Tranquility and Harmony modules today, as well as doing a microscope checkout

16

00:01:36,689 --> 00:01:42,619

on the JAXA clean bench in the Kibo Japanese module.

17

00:01:42,619 --> 00:01:47,259

Later on the day, he'll be doing some on orbit training with the space station's remote manipulator

18

00:01:47,259 --> 00:01:51,780

system or the robotic arm along with Andre Kuipers and Don Pettit.

19

00:01:51,780 --> 00:01:58,490

You can see that robotic arm there just in the center of your screen.

20

00:01:58,490 --> 00:02:06,100

Russian cosmonaut Anton Shkaplerov is continuing with some cargo stowage audits as there has

21  
00:02:06,100 --> 00:02:12,030  
been a number of resupply actions going on here with the recent Progress departure just

22  
00:02:12,030 --> 00:02:15,760  
a few days ago and the Progress launch scheduled for later today.

23  
00:02:15,760 --> 00:02:22,870  
He will also be participating in the BAR experiment which is a Russian look at selection and testing

24  
00:02:22,870 --> 00:02:28,820  
of different detection methods and then means for searching for depressurization of any

25  
00:02:28,820 --> 00:02:30,760  
of the International Space Station modules.

26  
00:02:30,760 --> 00:02:35,170  
He'll be joined in that by fellow Russian cosmonaut Anatoly Ivanishin.

27  
00:02:35,170 --> 00:02:41,030  
Ivanishin along with that BAR experiment will be working on Pneumocard which is another

28  
00:02:41,030 --> 00:02:47,140  
Russian study that looks at the adaptation of the astronauts' cardiovascular system,

29  
00:02:47,140 --> 00:02:53,060  
one of the many bodily systems that is affected during the.. by that microgravity environment

30  
00:02:53,060 --> 00:02:56,370  
during these long-duration spaceflights.

31  
00:02:56,370 --> 00:03:01,829

The final Russian cosmonaut Oleg Kononenko is also assisting Shkaplerov with some of

32  
00:03:01,829 --> 00:03:08,470  
that equipment audit, looking at all the cargo remaining onboard before doing some maintenance

33  
00:03:08,470 --> 00:03:13,610  
on the Russian segment coolant systems as well as the Elektron system which generates

34  
00:03:13,610 --> 00:03:17,140  
oxygen for the astronauts on board.

35  
00:03:17,140 --> 00:03:22,250  
European Space Agency astronaut Andre Kuipers did some work in the NanoRacks today doing

36  
00:03:22,250 --> 00:03:28,659  
a microscope checkout of his own before doing some software updates and also participating

37  
00:03:28,659 --> 00:03:35,790  
in a public affairs event with European industry leaders and media on the ground.

38  
00:03:35,790 --> 00:03:41,060  
Rounding out the crew astronaut Don Pettit participated in the Legos experiment which

39  
00:03:41,060 --> 00:03:47,159  
uses the famous Lego building blocks that you can find here on Earth.

40  
00:03:47,159 --> 00:03:54,090  
He built a Lego model of the Solar Dynamics Observatory as well as a radar satellite as

41  
00:03:54,090 --> 00:03:57,730  
part of an educational event onboard the station.

42

00:03:57,730 --> 00:04:03,079

He'll also do some maintenance on the Waste and Hygiene Compartment and also starting

43

00:04:03,079 --> 00:04:08,260

up his Integrated Cardiovascular monitoring system which is an American experiment, similar

44

00:04:08,260 --> 00:04:12,860

to that Russian Pneumocard, studying the cardiovascular system.

45

00:04:12,860 --> 00:04:18,280

The other major event on the docket for today will be that Progress 46 launch which will