

EXPEDITION 31

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Flight Engineer

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1
00:00:01,420 --> 00:00:02,690
Good morning and welcome

2
00:00:02,690 --> 00:00:05,430
to today's International
Space Station update.

3
00:00:05,430 --> 00:00:08,330
Crew has been very
busy today with two

4
00:00:08,330 --> 00:00:10,520
of our Russian cosmonauts
celebrating their birthdays

5
00:00:10,520 --> 00:00:12,090
today onboard the station.

6
00:00:12,090 --> 00:00:15,680
Starting off with Commander
Kononenko who was joined

7
00:00:15,680 --> 00:00:18,940
by his fellow Russian
cosmonauts Padalka and Revin

8
00:00:18,940 --> 00:00:21,970
in a public affairs event
a little bit earlier today.

9
00:00:21,970 --> 00:00:25,040
And then other than that
he'll be doing a series

10
00:00:25,040 --> 00:00:28,760
of electrical power system test
throughout the Russian service

11
00:00:28,760 --> 00:00:31,350

module or the Zvezda module.

12

00:00:31,350 --> 00:00:33,700

And that'll pretty much take
up most of his time today,

13

00:00:33,700 --> 00:00:35,450

a pretty routine task just

14

00:00:35,450 --> 00:00:39,430

to make sure all those systems
are performing as they should.

15

00:00:39,430 --> 00:00:42,750

Moving on veteran Gennady
Padalka has been working

16

00:00:42,750 --> 00:00:46,120

on a few more of the
experiments onboard the station,

17

00:00:46,120 --> 00:00:47,830

working with the Sonocard system

18

00:00:47,830 --> 00:00:52,270

which is contactless
acquisition device which looks

19

00:00:52,270 --> 00:00:54,060

to collect physiological data

20

00:00:54,060 --> 00:00:56,240

such as just basic
heart readings

21

00:00:56,240 --> 00:00:59,890

and other bodily readings

22

00:00:59,890 --> 00:01:02,060

from the astronauts
while their sleeping.

23

00:01:02,060 --> 00:01:06,890

He'll also be working with the
Typologia experiment which looks

24

00:01:06,890 --> 00:01:10,720

to study how these astronauts
adapt in that transition

25

00:01:10,720 --> 00:01:12,870

to a weightless environment
of space.

26

00:01:12,870 --> 00:01:15,780

The many effects that it may
have on their basic control

27

00:01:15,780 --> 00:01:17,730

and decision functions.

28

00:01:17,730 --> 00:01:22,720

Our third Russian cosmonaut
Sergei Revin has also been doing

29

00:01:22,720 --> 00:01:26,650

some cardiac studies this
morning taking some readings,

30

00:01:26,650 --> 00:01:32,110

which was scheduled
for 30 days or two days

31

00:01:32,110 --> 00:01:34,470

between a private medical
conference with crews

32

00:01:34,470 --> 00:01:37,020

on the ground, so another

one of those studies looking

33

00:01:37,020 --> 00:01:40,020
at the astronauts' cardiac
function as they're exposed

34

00:01:40,020 --> 00:01:43,510
to a microgravity environment
for long periods of time.

35

00:01:43,510 --> 00:01:47,280
He'll also be working with the
Russian Relaxation experiment

36

00:01:47,280 --> 00:01:49,260
which looks to determine
the effect

37

00:01:49,260 --> 00:01:51,590
that propulsion system
exhausts have

38

00:01:51,590 --> 00:01:54,700
on the Earth's upper
atmosphere but also any

39

00:01:54,700 --> 00:01:58,070
of the optically sensitive
surfaces onboard the station

40

00:01:58,070 --> 00:02:02,580
such as windows and equipment
lenses and solar array panels.

41

00:02:02,580 --> 00:02:06,930
Meanwhile NASA astronaut Joe
Acaba removed a few insulation

42

00:02:06,930 --> 00:02:11,580
blankets from anti-microbial

applicator earlier today,

43

00:02:11,580 --> 00:02:14,810
allowing the temperatures to
equalize as it comes up to kind

44

00:02:14,810 --> 00:02:16,950
of a room temperature
on board the station.

45

00:02:16,950 --> 00:02:17,860
He'll also be working

46

00:02:17,860 --> 00:02:21,870
in the Japanese Experiment
Module today doing some work

47

00:02:21,870 --> 00:02:25,280
with you thermal control
systems fluid servicing system.

48

00:02:25,280 --> 00:02:28,060
He'll also be assisting Don
Pettit a little bit later today

49

00:02:28,060 --> 00:02:30,630
with the Integrated
Cardiovascular experiment

50

00:02:30,630 --> 00:02:35,090
as Don Pettit takes a number
of ultrasounds of his own body.

51

00:02:35,090 --> 00:02:38,510
Meanwhile European Space Agency
astronaut Andre Kuipers is

52

00:02:38,510 --> 00:02:40,940
continuing some of the
work he was doing yesterday

53

00:02:40,940 --> 00:02:43,660
with the Fluid Physics
Experiment Facility inside the

54

00:02:43,660 --> 00:02:45,620
Japanese Experiment Module.

55

00:02:45,620 --> 00:02:46,640
He's working to set

56

00:02:46,640 --> 00:02:51,190
up the Marangoni Inside
module inside of this thing.

57

00:02:51,190 --> 00:02:52,800
Marangoni experiment looks

58

00:02:52,800 --> 00:02:55,250
to study thermal
capillary convection

59

00:02:55,250 --> 00:02:58,290
which is also called
Marangoni convection

60

00:02:58,290 --> 00:03:00,150
in the microgravity environment.

61

00:03:00,150 --> 00:03:03,540
He'll be conducting a photo
survey of the Columbus module

62

00:03:03,540 --> 00:03:07,640
which is the European Space
Agency's main experiment module

63

00:03:07,640 --> 00:03:09,110
onboard the station.

64

00:03:09,110 --> 00:03:13,340

Then our final Expedition

31 crewmate Don Pettit,

65

00:03:13,340 --> 00:03:14,350

he's also going to be working

66

00:03:14,350 --> 00:03:16,790

in that Japanese Experiment

Module changing out some

67

00:03:16,790 --> 00:03:20,290

of the batteries in the portable

computer systems onboard.

68

00:03:20,290 --> 00:03:22,120

He'll also be stowing

a few items

69

00:03:22,120 --> 00:03:25,780

from yesterday's Amine Swingbed

operations that he was working

70

00:03:25,780 --> 00:03:27,590

on throughout most of his day.

71

00:03:27,590 --> 00:03:29,410

And then later on

today he'll be working

72

00:03:29,410 --> 00:03:32,270

with that ultrasound

system, getting some scans