

A portrait of Sergei Revin, a man with short dark hair, wearing a blue flight suit with a Russian flag patch on the sleeve. The background is a blue-tinted image of the International Space Station in orbit.

EXPEDITION 32

A vertical strip on the left side of the image showing a view of the Milky Way galaxy against a dark space background.A vertical strip at the bottom left showing a bright orange and yellow sun or star.

SERGEI REVIN
Flight Engineer

1
00:00:01,240 --> 00:00:02,510
Good morning and welcome

2
00:00:02,510 --> 00:00:05,520
to today's International
Space Station update hour.

3
00:00:05,520 --> 00:00:07,830
You're joining us here inside
of the flight control room

4
00:00:07,830 --> 00:00:10,640
in Houston, Texas, where the
Orbit 2 team is currently

5
00:00:10,640 --> 00:00:13,540
on console monitoring all
the systems onboard the

6
00:00:13,540 --> 00:00:15,870
orbiting laboratory.

7
00:00:15,870 --> 00:00:19,330
They're being led today by
flight director Heather Rarick,

8
00:00:19,330 --> 00:00:22,020
and joining her at the
Capcom position serving

9
00:00:22,020 --> 00:00:25,410
as the voice communication link
between crews here on the ground

10
00:00:25,410 --> 00:00:28,820
and astronauts up in
space is Jack Fischer.

11
00:00:28,820 --> 00:00:34,470

And that crew right now is
the Expedition 32 members.

12

00:00:34,470 --> 00:00:39,720

They're being led by Russian
cosmonaut Gennady Padalka there

13

00:00:39,720 --> 00:00:40,940

in the middle.

14

00:00:40,940 --> 00:00:42,580

This is Padalka fourth flight

15

00:00:42,580 --> 00:00:47,140

and his third Expedition onboard
the International Space Station.

16

00:00:47,140 --> 00:00:50,320

To the left is Russian
cosmonaut Sergei Revin

17

00:00:50,320 --> 00:00:52,190

on his first flight, and there

18

00:00:52,190 --> 00:00:54,720

in the right NASA
astronaut Joe Acaba,

19

00:00:54,720 --> 00:00:58,570

veteran of one space
shuttle mission, STS 119,

20

00:00:58,570 --> 00:01:01,880

onboard the International Space
Station for his second flight.

21

00:01:01,880 --> 00:01:06,740

The astronauts on board
pretty involved in quite

22

00:01:06,740 --> 00:01:10,720
of few experiment and
maintenance activities today.

23

00:01:10,720 --> 00:01:13,550
Starting off with
Commander Gennady Padalka

24

00:01:13,550 --> 00:01:15,900
who spent a few hours
this morning back to back

25

00:01:15,900 --> 00:01:19,300
with fellow Russian cosmonaut
Sergei Revin as they work

26

00:01:19,300 --> 00:01:22,440
to do some maintenance on the
Russian communication systems.

27

00:01:22,440 --> 00:01:24,860
They're working with
teams on the ground

28

00:01:24,860 --> 00:01:28,350
for an integrated command
and telemetry system upgrade

29

00:01:28,350 --> 00:01:30,090
which will be used
later on in the future

30

00:01:30,090 --> 00:01:33,960
for different payload
transmissions to ground sites.

31

00:01:33,960 --> 00:01:36,620
He'll also be doing a
life on the station photo

32

00:01:36,620 --> 00:01:39,420
and video session with
Sergei Revin before moving

33

00:01:39,420 --> 00:01:43,370
on to do some housecleaning
work on some of the dust filters

34

00:01:43,370 --> 00:01:47,090
in the Mini Research Module
1, or the Rassvet module

35

00:01:47,090 --> 00:01:48,890
over on the Russian segment.

36

00:01:48,890 --> 00:01:52,930
And his fellow Russian
cosmonaut Sergei Revin

37

00:01:52,930 --> 00:01:56,950
who again is working with him
on those comm system upgrades

38

00:01:56,950 --> 00:01:58,450
and that life on
the station photo

39

00:01:58,450 --> 00:02:01,190
and video will also doing
some stowage work today

40

00:02:01,190 --> 00:02:05,630
in the 47 Progress vehicle
which will have some undocking

41

00:02:05,630 --> 00:02:09,850
and de-orbiting activities
later on month as part of a slew

42

00:02:09,850 --> 00:02:12,980
of activity with visiting
vehicles on board the station.

43
00:02:12,980 --> 00:02:16,830
Those will kick off on July
22 when the 47P undocks

44
00:02:16,830 --> 00:02:20,260
from the station and then
redocks two days later to test

45
00:02:20,260 --> 00:02:24,110
out one of the new
Kurs navigation systems

46
00:02:24,110 --> 00:02:27,230
which is the automated system
onboard those unmanned cargo

47
00:02:27,230 --> 00:02:28,080
crafts that dock

48
00:02:28,080 --> 00:02:31,310
to the International Space
Station before finally undocking

49
00:02:31,310 --> 00:02:34,260
on July 30 to burn
up upon reentry

50
00:02:34,260 --> 00:02:36,130
into the Earth's atmosphere.

51
00:02:36,130 --> 00:02:38,320
Revin will also be working

52
00:02:38,320 --> 00:02:40,660
on the Russian Matryoshka
experiment

53

00:02:40,660 --> 00:02:45,690
which is a radiation study which
has a human torso mannequin

54

00:02:45,690 --> 00:02:48,950
with an array of sensors in
different slices throughout it

55

00:02:48,950 --> 00:02:51,950
that looks to study
the radiation dosage

56

00:02:51,950 --> 00:02:53,440
that these astronauts
are exposed

57

00:02:53,440 --> 00:02:55,850
to during their long-duration
spaceflights.

58

00:02:55,850 --> 00:02:57,720
And our third crew member

59

00:02:57,720 --> 00:03:01,550
of Expedition 32 right now
is NASA astronaut Joe Acaba,

60

00:03:01,550 --> 00:03:04,220
who's going be working with two
different experiments today,

61

00:03:04,220 --> 00:03:06,760
the first of which
is the BCAT-6.

62

00:03:06,760 --> 00:03:09,040
He'll be mixing, photographing
and installing a few

63

00:03:09,040 --> 00:03:10,660
of the samples for that.

64

00:03:10,660 --> 00:03:14,160
BCAT standing for the
Binary Colloidal Alloy Test,

65

00:03:14,160 --> 00:03:17,760
looks to study colloids which
are tiny particles that are

66

00:03:17,760 --> 00:03:19,710
that are then suspended
in different fluids

67

00:03:19,710 --> 00:03:24,380
to study some pretty
basic particle physics.

68

00:03:24,380 --> 00:03:27,500
He'll also be working on
the EarthKAM which stands

69

00:03:27,500 --> 00:03:30,760
for the Earth Knowledge Acquired
By Middle School Students.

70

00:03:30,760 --> 00:03:32,450
He'll be setting
that up in the WOLF,

71

00:03:32,450 --> 00:03:35,340
or the Window Observational
Research Facility.

72

00:03:35,340 --> 00:03:37,840
He'll be doing that work
today in preparation

73

00:03:37,840 --> 00:03:41,800
for a weeklong session starting
today with the system checkouts

74

00:03:41,800 --> 00:03:43,870
and some targeting
calibration work.

75

00:03:43,870 --> 00:03:46,770
And then students and educators
from around the country here

76

00:03:46,770 --> 00:03:50,380
in America will begin taking
their images on Tuesday.