1
00:00:04,637 --> 00:00:09,141
>> It's Wednesday, July 24th,
a very busy day on orbit

2
00:00:09,141 --> 00:00:12,845
with the Expedition 36 crew
members working on a variety

3
00:00:12,845 --> 00:00:16,482
of science experiments, plus
preparations for departure

4
00:00:16,482 --> 00:00:19,752
of progress vehicle as well
as troubleshooting an issue

5
00:00:19,752 --> 00:00:22,021
with one of the space suits.

6
00:00:22,021 --> 00:00:23,556
Commander Pavel Vinogradov

7
00:00:23,556 --> 00:00:26,725
and his crew kicked off their
morning with a conference

8
00:00:26,725 --> 00:00:29,829
with each of their flight
control teams around the world.

9
00:00:29,829 --> 00:00:32,565
The standard procedure
to begin the day

10
00:00:32,565 --> 00:00:35,468
by reviewing the day's plan
and letting the crew know

11
00:00:35,468 --> 00:00:38,204

about any adjustments that
have been made during their

12
00:00:38,204 --> 00:00:39,638
sleep period.

13
00:00:39,638 --> 00:00:42,241
Vinogradov and Fyodor
Yurchikhin then moved

14
00:00:42,241 --> 00:00:46,445
on to work a shooting video
for a Russian production,

15
00:00:46,445 --> 00:00:48,114
which is highlighting
the achievements

16
00:00:48,114 --> 00:00:50,749
of that country's space program.

17
00:00:50,749 --> 00:00:52,985
It was science that
kicked off the day today

18
00:00:52,985 --> 00:00:55,087
for Luca Parmitano.

19
00:00:55,087 --> 00:00:58,924
He started off the day
initializing samples for runs

20
00:00:58,924 --> 00:01:02,795
in the Binary Colloidal
Alloy Test Experiment.

21
00:01:02,795 --> 00:01:06,465
Also, science on the agenda
for Aleksandr Misurkin.

22
00:01:06,465 --> 00:01:09,135
He started his day with
some more data takes

23
00:01:09,135 --> 00:01:11,937
on the Russian Bar
Experiment, which focused

24
00:01:11,937 --> 00:01:17,476
on isolating sources of leaks
inside a pressurized vehicle.

25
00:01:17,476 --> 00:01:20,779
Flight Engineer Karen Nyberg
began the day today gathering

26
00:01:20,779 --> 00:01:23,482
up hardware for the
coming installation

27
00:01:23,482 --> 00:01:26,852
of the centerline birthing
camera that will be going

28
00:01:26,852 --> 00:01:31,323
in the window of the Nader
hatch of Node 2 in advance

29
00:01:31,323 --> 00:01:35,694
of next month's arrival of the
next H-II transfer vehicle.

30
00:01:35,694 --> 00:01:39,098
That camera will provide will
information to the operators

31
00:01:39,098 --> 00:01:45,070
of the robotic arm after they've
grappled the H-II transfer

32
00:01:45,070 --> 00:01:51,010
vehicle, the HTV, and begin to
install in place on the Node 2.

33
00:01:51,010 --> 00:01:54,180
Chris Cassidy had exercise
to begin his day today

34
00:01:54,180 --> 00:01:57,316
and also then time
for study of plans

35
00:01:57,316 --> 00:02:01,620
for continued troubleshooting on
the spacesuit that leaked water

36
00:02:01,620 --> 00:02:03,656
into the helmet that
was being worn

37
00:02:03,656 --> 00:02:07,059
by Luca Parmitano during
last Tuesday's spacewalk.

38
00:02:07,059 --> 00:02:08,694
Tuesday last week.

39
00:02:08,694 --> 00:02:13,065
Cassidy then moved on to setting
up hardware in the Kibo Module

40
00:02:13,065 --> 00:02:16,402
for some upcoming runs with
the Marangoni Experiment,

41
00:02:16,402 --> 00:02:20,072
that is looking at the
physics of heat transfer

42

00:02:20,072 --> 00:02:22,441
in the micro gravity
environment.

43
00:02:22,441 --> 00:02:24,710
After lunch today, Vinogrado

44
00:02:24,710 --> 00:02:28,647
and Yurchikhin turned their
attention to closing the hatch

45
00:02:28,647 --> 00:02:33,118
on the progress vehicle that is
currently docked to the aft end

46
00:02:33,118 --> 00:02:35,955
of the Pirs docking
compartment that the end pointed

47
00:02:35,955 --> 00:02:38,691
down to Earth and identified
in our graphic there

48
00:02:38,691 --> 00:02:43,362
as Progress 50, also
known as 50P.

49
00:02:43,362 --> 00:02:46,265
The hatch is going to
be closed a little later

50
00:02:46,265 --> 00:02:49,068
on Wednesday morning, and
then the interface monitored

51
00:02:49,068 --> 00:02:53,939
for a day or more prior to
the planned undocking of 50P

52
00:02:53,939 --> 00:02:56,342

on Thursday afternoon.

53
00:02:56,342 --> 00:03:00,179
That undocking will
open up a docking port

54
00:03:00,179 --> 00:03:03,449
to receive the next Progress
vehicle that is due to arrive

55
00:03:03,449 --> 00:03:05,084
at the station this weekend.

56
00:03:05,084 --> 00:03:10,489
52P is to launch from the
Baikonur Cosmodrome on Saturday

57
00:03:10,489 --> 00:03:14,026
at 3:45 in the afternoon
Houston time

58
00:03:14,026 --> 00:03:18,130
to start a four orbit journey to
the station, and is due to dock

59
00:03:18,130 --> 00:03:21,267
to the Pirs docking
compartment this Saturday night

60
00:03:21,267 --> 00:03:23,736
at 9:26 Houston time.

61
00:03:23,736 --> 00:03:26,839
The launch and docking time
of that vehicle, of course,

62
00:03:26,839 --> 00:03:29,942
will be covered live
on NASA television.

63
00:03:29,942 --> 00:03:32,645
The three US segment crew
members got together late

64
00:03:32,645 --> 00:03:36,048
in the morning for a conference
with spacewalking specialists

65
00:03:36,048 --> 00:03:39,418
in Houston to review
procedures for the next round

66
00:03:39,418 --> 00:03:43,422
of inspections that are
designed to isolate the cause

67
00:03:43,422 --> 00:03:46,692
of last week's malfunction
that allowed water to leak

68
00:03:46,692 --> 00:03:50,496
into Luca Parmitano's
helmet during a spacewalk.

69
00:03:50,496 --> 00:03:53,666
Crew members then top off
their day with more work

70
00:03:53,666 --> 00:03:56,935
on the VCAD Experiment and
maintenance of components

71
00:03:56,935 --> 00:03:58,971
of the station's
thermal control system.

72
00:03:58,971 --> 00:04:01,473
For Thursday, the
schedule includes a lot

73
00:04:01,473 --> 00:04:04,510
of routine station
maintenance, but also more setup

74
00:04:04,510 --> 00:04:07,713
with the Marangoni Experiment
hardware and maintenance

75
00:04:07,713 --> 00:04:11,650
on a combustion experiment
apparatus, all while preparing

76
00:04:11,650 --> 00:04:14,019
for the undocking of
a Russian cargo ship

77
00:04:14,019 --> 00:04:17,556
that will clear the way for a
new load of supplies to arrive