1
00:00:01,400 --> 00:00:03,240
Good morning, this is
mission control Houston.

2
00:00:03,240 --> 00:00:05,820
Welcome and thank you for
joining us for today's edition

3
00:00:05,820 --> 00:00:08,980
of ISS update this
Wednesday, May 16.

4
00:00:08,980 --> 00:00:12,460
Aboard the orbiting complex,
station Commander Oleg Kononenko

5
00:00:12,460 --> 00:00:15,330
and Flight Engineers Andre
Kuipers and Don Pettit,

6
00:00:15,330 --> 00:00:18,720
who are now in the middle
at their 21st week in space,

7
00:00:18,720 --> 00:00:21,500
will soon welcome three new
crew members aboard their

8
00:00:21,500 --> 00:00:22,970
orbital home.

9
00:00:22,970 --> 00:00:26,250
Russian cosmonauts Gennady
Padalka and Sergei Revin

10
00:00:26,250 --> 00:00:28,850
and NASA astronaut Joe Acaba,

11
00:00:28,850 --> 00:00:32,250

aboard their Soyuz-04M
spacecraft are closing

12
00:00:32,250 --> 00:00:34,720
in on the space station
after their successful launch

13
00:00:34,720 --> 00:00:38,680
from the Baikonur Cosmodrome in
Kazakhstan late Monday night.

14
00:00:38,680 --> 00:00:44,090
Their Soyuz spacecraft is set
to dock to the Poisk module

15
00:00:44,090 --> 00:00:47,990
at the space station
tonight at 11:38 p.m. CT.

16
00:00:47,990 --> 00:00:51,140
While anticipating their
three new crew members,

17
00:00:51,140 --> 00:00:55,130
the Expedition 31 crew with
a shorter workday today,

18
00:00:55,130 --> 00:00:58,230
continue to tend to science
experiments that take advantage

19
00:00:58,230 --> 00:01:01,960
of the microgravity environment,
perform some regular maintenance

20
00:01:01,960 --> 00:01:03,330
to the orbital home and prepare

21
00:01:03,330 --> 00:01:05,430
for the arrival of

their crewmates.

22
00:01:05,430 --> 00:01:07,590
Live coverage of the
docking tonight will begin

23
00:01:07,590 --> 00:01:13,570
at 11 p.m. CT, midnight ET,
here on NASA Television.

24
00:01:13,570 --> 00:01:17,300
The station crew members began
their day with a 1 a.m. wake up,

25
00:01:17,300 --> 00:01:18,900
kicking off docking
day with the first

26
00:01:18,900 --> 00:01:21,290
of two daily planning
conferences a couple hours

27
00:01:21,290 --> 00:01:22,740
after their wake up.

28
00:01:22,740 --> 00:01:25,420
These planning conferences are
held with ground controllers

29
00:01:25,420 --> 00:01:27,470
at mission control
centers around the world

30
00:01:27,470 --> 00:01:29,090
to review the day's
activities and plan

31
00:01:29,090 --> 00:01:30,230
for the next set of tasks.

32
00:01:30,230 --> 00:01:32,690
The big task of today,
of course is tonight,

33
00:01:32,690 --> 00:01:35,130
that tonight's docking
with the Soyuz.

34
00:01:35,130 --> 00:01:37,600
Earlier this morning, after
some work preparation,

35
00:01:37,600 --> 00:01:39,820
Commander Kononenko
had performed an hour

36
00:01:39,820 --> 00:01:42,700
of his daily exercise using
the onboard treadmill.

37
00:01:42,700 --> 00:01:43,590
He then participated

38
00:01:43,590 --> 00:01:46,330
in the hatch opening TV
coverage procedure review,

39
00:01:46,330 --> 00:01:47,660
that will allow live coverage

40
00:01:47,660 --> 00:01:49,730
of tomorrow's early-morning
hatch opening.

41
00:01:49,730 --> 00:01:52,810
Kononenko had later gathered
physical exercise tools

42
00:01:52,810 --> 00:01:54,940

for the three new crew
members set to arrive tonight.

43
00:01:54,940 --> 00:01:59,180
After a morning inspection,
Flight Engineers Andre Kuipers

44
00:01:59,180 --> 00:02:01,240
and Don Pettit collected
and logged data

45
00:02:01,240 --> 00:02:04,980
for an ongoing energy study
that evaluates energy balance

46
00:02:04,980 --> 00:02:07,660
as a long-duration
spaceflight crew member

47
00:02:07,660 --> 00:02:10,130
and an ongoing journal study.

48
00:02:10,130 --> 00:02:12,260
The pair then reviewed
together the docking data for

49
00:02:12,260 --> 00:02:16,080
yet another upcoming station
docking with the SpaceX Dragon.

50
00:02:16,080 --> 00:02:18,440
This is the first
commercial spacecraft

51
00:02:18,440 --> 00:02:20,430
to launch to the space station.

52
00:02:20,430 --> 00:02:21,960
It is set to launch
this Saturday,

53
00:02:21,960 --> 00:02:24,480
on May 19 at 3:55 a.m. CT.

54
00:02:24,480 --> 00:02:27,720
After an hour for lunch,
Pettit participated

55
00:02:27,720 --> 00:02:30,570
in a regular private medical
conference and joined Kuipers

56
00:02:30,570 --> 00:02:32,160
in additional cargo transfers

57
00:02:32,160 --> 00:02:35,220
and European Space Agency's
docked automated transfer

58
00:02:35,220 --> 00:02:39,240
vehicle, also known as the
Edoardo Amaldi, that arrived

59
00:02:39,240 --> 00:02:41,640
at the station on March 28.

60
00:02:41,640 --> 00:02:44,260
Before winding down to begin
their pre-sleep, Kuipers

61
00:02:44,260 --> 00:02:45,640
and Pettit spent
some time to talk

62
00:02:45,640 --> 00:02:49,110
with European Space Agency's
Youtube Spacelab participants

63
00:02:49,110 --> 00:02:50,880

from Spain and Egypt.

64
00:02:50,880 --> 00:02:53,100
Don Pettit: It is
perpendicular to the length,

65
00:02:53,100 --> 00:02:54,670
and that changes the dynamics.

66
00:02:54,670 --> 00:02:57,450
It is no longer a pendulum,
with the pendulum equation,

67
00:02:57,450 --> 00:03:00,920
it is now a simple
harmonic oscillator.

68
00:03:00,920 --> 00:03:03,090
The expedition crew
is now settling

69
00:03:03,090 --> 00:03:04,670
down in their pre-sleep period

70
00:03:04,670 --> 00:03:07,760
for an early bedtime aboard the
space station at noon today,