

A portrait of Don Pettit, a flight engineer, wearing a white space helmet with a blue and red visor. He is smiling slightly. The background is a blue-tinted image of the International Space Station in orbit. The text 'EXPEDITION 31' is written vertically on the left side of the image.

EXPEDITION 31

DON PETTIT
Flight Engineer

1
00:00:01,366 --> 00:00:02,786
This is Mission Control Houston.

2
00:00:03,376 --> 00:00:05,786
For the crew on the
International Space Station,

3
00:00:05,886 --> 00:00:08,536
Tuesday has been a day
of science research

4
00:00:08,786 --> 00:00:10,106
and maintenance activity.

5
00:00:10,626 --> 00:00:14,076
And for some of the crew members
also the start of preparations

6
00:00:14,076 --> 00:00:16,616
to conclude their six
month space flight.

7
00:00:17,376 --> 00:00:21,016
Station Commander Oleg Kononenko
spent the morning photographing

8
00:00:21,016 --> 00:00:22,896
windows in the Russian modules

9
00:00:22,896 --> 00:00:24,236
of the International
Space Station.

10
00:00:24,686 --> 00:00:28,136
He then moved on to the
Russian daily maintenance

11
00:00:28,136 --> 00:00:30,226
in the Russian segment toilet.

12

00:00:30,806 --> 00:00:33,956

His crewmate Gennady
Padalka spent a good portion

13

00:00:33,956 --> 00:00:37,186

of his day working on the
Plasma Crystal experiment

14

00:00:37,686 --> 00:00:42,676

that is examining behavior of
plasma dust crystals and fluids

15

00:00:42,676 --> 00:00:44,896

in the microgravity environment.

16

00:00:45,986 --> 00:00:48,866

Flight Engineer Sergei
Revin also working

17

00:00:48,866 --> 00:00:52,956

on Russian science today busy
with the Typologia experiment

18

00:00:53,176 --> 00:00:57,356

which is researching how
crew members reactions change

19

00:00:57,356 --> 00:00:59,796

over time as they spend time

20

00:01:00,106 --> 00:01:02,776

in the alien environment
of low Earth orbit.

21

00:01:03,316 --> 00:01:07,336

Flight Engineer Joe Acaba spent
time today doing maintenance

22

00:01:07,336 --> 00:01:12,146
on the Japanese robotic arm and
then moved to gather up hardware

23

00:01:12,406 --> 00:01:14,076
that will be used
for the maintenance

24

00:01:14,076 --> 00:01:15,796
on the thermal control system

25

00:01:15,866 --> 00:01:18,236
that he will perform
later on in the week.

26

00:01:18,286 --> 00:01:23,516
Flight Engineer Don Pettit had
time today to gather up hardware

27

00:01:23,716 --> 00:01:27,256
that will be used for the
assembly of the Amine Swingbed.

28

00:01:27,556 --> 00:01:30,226
That's scheduled to take
place on Wednesday as well.

29

00:01:31,186 --> 00:01:34,296
For Flight Engineer Andre
Kuipers, he worked today

30

00:01:34,296 --> 00:01:38,176
to prepare the Marangoni
inside experiment hardware

31

00:01:38,586 --> 00:01:41,176
and also conducted
some testing of water

32

00:01:41,176 --> 00:01:43,436

from the Environmental
Health System.

33

00:01:43,886 --> 00:01:47,366

After the crew members had their
lunch break the Russian crew

34

00:01:47,366 --> 00:01:50,226

members prepared some
memorabilia related

35

00:01:50,226 --> 00:01:53,686

to the mission of the Automated
Transfer Vehicle number three

36

00:01:54,026 --> 00:01:56,046

that will be brought
back to Earth.

37

00:01:56,176 --> 00:02:00,416

The three United States
operating segment crew members

38

00:02:00,666 --> 00:02:03,836

also spent time getting set
to talk about their mission

39

00:02:04,206 --> 00:02:06,556

in interviews with
Fox Business Channel

40

00:02:06,556 --> 00:02:08,406

and the American
Geophysical Union.

41

00:02:09,016 --> 00:02:10,376

All of the crew members finished

42

00:02:10,376 --> 00:02:14,376

up their second daily exercise

session just before the evening

43

00:02:14,476 --> 00:02:15,836

daily planning conference.

44

00:02:16,496 --> 00:02:20,126

Kononenko, Kuipers and Pettit
looking ahead to the start

45

00:02:20,126 --> 00:02:23,626

of departure preparations ahead
of the end of their flight.

46

00:02:24,066 --> 00:02:27,586

Those three crew members are
scheduled for a Soyuz landing