



1
00:00:00,506 --> 00:00:05,546
[Music]

2
00:00:06,046 --> 00:00:06,956
>> Good morning.

3
00:00:06,956 --> 00:00:07,886
This is Mission Control Houston.

4
00:00:07,886 --> 00:00:09,456
Welcome and than you for
joining us for today's edition

5
00:00:09,456 --> 00:00:11,306
of Spacestation Live this
Wednesday, June 12th.

6
00:00:12,376 --> 00:00:15,866
Today is a crew off-duty day
aboard the International Space

7
00:00:15,866 --> 00:00:18,146
Station in recognition
of Russia Day holiday

8
00:00:18,236 --> 00:00:20,256
to honor the country's
declaration

9
00:00:20,256 --> 00:00:22,766
of state sovereignty in 1990.

10
00:00:22,766 --> 00:00:25,656
Despite the crew off-duty day
the crew will be participating

11
00:00:25,656 --> 00:00:28,626
in a few activities that require
basic maintenance and upkeep.

12

00:00:29,236 --> 00:00:32,146
Commander Pavel Vinogradov
is attending to a study known

13

00:00:32,146 --> 00:00:35,836
as a Plasma Crystal that looks
at a matter called Dusty Plasma,

14

00:00:35,836 --> 00:00:38,696
which contains particles
big enough to be seen

15

00:00:38,696 --> 00:00:40,296
and tracked with video cameras.

16

00:00:40,856 --> 00:00:44,736
The plasma structure is created,
some never seen before on Earth,

17

00:00:44,736 --> 00:00:46,626
will help scientists
to test their ideas

18

00:00:46,626 --> 00:00:49,576
about conventional [Inaudible]
Those atoms are too small

19

00:00:49,576 --> 00:00:50,066
to watch.

20

00:00:50,956 --> 00:00:53,526
Flight engineers Chris
Cassidy, Luca Parmitano

21

00:00:53,526 --> 00:00:56,686
and Karen Nyberg will be
collecting biological samples

22

00:00:56,686 --> 00:00:59,236
for continuing human
body studies that help

23

00:00:59,496 --> 00:01:01,866
to understand how living in
space affects the human body

24

00:01:01,896 --> 00:01:03,826
and also learn new
countermeasures

25

00:01:03,956 --> 00:01:05,056
like diet and exercise.

26

00:01:05,846 --> 00:01:08,686
These biological samples
are collected and stored

27

00:01:08,686 --> 00:01:10,516
in the onboard freezer
known as the MELFI

28

00:01:10,636 --> 00:01:13,026
or the minus 80 degree
laboratory freezer.

29

00:01:13,426 --> 00:01:17,256
These samples will give
research insight into anomalies

30

00:01:17,256 --> 00:01:20,436
like bone loss in space, which
in turn can also be applied

31

00:01:20,436 --> 00:01:23,086
to finding solutions for
battling osteoporosis on Earth.

32

00:01:23,316 --> 00:01:25,446

The trio Cassidy, Parmitano

33

00:01:25,446 --> 00:01:28,286
and Nyberg also will be
conducting a periodic health

34

00:01:28,286 --> 00:01:30,816
assessment, taking turns
as subject and assistant,

35

00:01:32,056 --> 00:01:34,536
like a regular check-up at the
doctor's office here on Earth

36

00:01:34,966 --> 00:01:37,416
to help identify risk
factors for prevention

37

00:01:37,456 --> 00:01:40,336
of serious medical issues and
to maintain their good health.

38

00:01:41,756 --> 00:01:43,726
Meanwhile flight
engineers Yurchikhin

39

00:01:44,246 --> 00:01:48,146
and Parmitano also tend to a
few house maintenance tasks.

40

00:01:48,226 --> 00:01:51,616
Yurchikhin will perform
regular maintenance

41

00:01:51,896 --> 00:01:55,186
to the [Inaudible] the Russian
life support system while

42

00:01:55,356 --> 00:01:57,846
Parmitano will conduct

a water sample analysis

43

00:01:57,896 --> 00:02:01,916
of the onboard water recovery
system, a regenerative system

44

00:02:01,916 --> 00:02:05,036
that converts urine,
sweat and condensation

45

00:02:05,596 --> 00:02:06,926
into drinkable water
for the crew.

46

00:02:08,076 --> 00:02:10,496
The crew will have time to
prepare for getting back

47

00:02:10,546 --> 00:02:13,566
to work tomorrow for a busy day
of science research, maintenance

48

00:02:13,566 --> 00:02:15,806
and preparation of the
upcoming vehicle docking

49

00:02:16,466 --> 00:02:18,226
of the automated
transfer vehicle four

50

00:02:18,226 --> 00:02:20,636
that is nicknamed Albert
Einstein this Saturday

51

00:02:20,876 --> 00:02:23,596
and also a Russian spacewalk
outside the piers docking

52

00:02:23,596 --> 00:02:26,526
compartment in a

couple of weeks.

53

00:02:26,526 --> 00:02:29,126

Meanwhile, two [Inaudible]

burns are being conducted today

54

00:02:29,536 --> 00:02:32,606

by the Albert Einstein, the

automated transfer vehicle four

55

00:02:33,996 --> 00:02:36,226

that continues to phase

towards the space station