



1
00:00:01,296 --> 00:00:02,726
This is Mission Control Houston.

2
00:00:03,266 --> 00:00:09,096
The Expedition 29 crew onboard the International Space Station has devoted a good portion

3
00:00:09,096 --> 00:00:11,636
of today's work to a variety

4
00:00:11,636 --> 00:00:17,666
of science activities while also spending time preparing the next vehicle that is scheduled

5
00:00:17,726 --> 00:00:19,996
to depart the International Space Station.

6
00:00:20,056 --> 00:00:21,736
That coming up later this month.

7
00:00:22,226 --> 00:00:27,556
Commander Mike Fossum completed a sample exchange in the Materials Science Laboratory.

8
00:00:28,046 --> 00:00:34,316
That MSL facility is where a variety of different samples are put in a furnace

9
00:00:34,626 --> 00:00:39,756
for an experiment that is studying metal solidification, semi-conductor crystal growth

10
00:00:39,856 --> 00:00:44,696
as well as measuring the thermophysical properties of materials in space.

11
00:00:46,426 --> 00:00:53,086
Also today, Fossum and Flight Engineer Satoshi Furukawa performed eye exams on one another.

12
00:00:53,376 --> 00:00:59,546
That's for an experiment called Tonometry in which the measurement of eye pressure is part

13
00:00:59,546 --> 00:01:04,096
of an attempt by scientists to judge just what impact living

14
00:01:04,096 --> 00:01:07,576
in a microgravity environment has on a crew member's vision.

15
00:01:08,776 --> 00:01:13,046
Both those crew members spent most of the afternoon gathering trash to be packed

16
00:01:13,046 --> 00:01:18,886
up inside a Progress vehicle that's now docked to the aft end of the Pirs docking compartment.

17
00:01:20,196 --> 00:01:24,946
Flight Engineer Sergei Volkov also worked on 42P stowage.

18
00:01:25,396 --> 00:01:31,186
He also had time during his day today to setup hardware for a Russian physics research

19
00:01:31,366 --> 00:01:36,366
on crystallization, as well as to conduct a Russian public affairs event.

20
00:01:37,246 --> 00:01:40,836
The plan is for all of those crew members is to finish up the prepacking

21
00:01:41,006 --> 00:01:44,176
of that Progress vehicle by Monday of next week.

22

00:01:44,586 --> 00:01:47,836

Then they will be spending time
over the course of the next couple

23

00:01:47,836 --> 00:01:54,386

of weeks getting everything stowed as
needed before Progress number 42 is undocked

24

00:01:54,386 --> 00:01:56,466

from the International Space Station Oct.

25

00:01:56,466 --> 00:02:01,616

29 in advance of the arrival of a
new shipment of supplies that's due

26

00:02:01,616 --> 00:02:06,756

on another Progress vehicle -- Progress
number 45 which is due to arrive