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70
VANE POSITION
0:34:26

1
00:00:01,696 --> 00:00:03,556
Good morning, and welcome
to Mission Control Houston

2
00:00:03,556 --> 00:00:05,326
and the International Space Station Update.

3
00:00:05,366 --> 00:00:09,366
The crew has lot of interesting
work going on today in space.

4
00:00:09,786 --> 00:00:13,756
At the moment we're hearing Flight Engineer
Don Pettit talk about the SLICE experiment

5
00:00:13,756 --> 00:00:15,036
which he is currently working on.

6
00:00:15,036 --> 00:00:20,636
That's the Structure and Liftoff in Combustion
Experiment, which aims at improving the design

7
00:00:20,636 --> 00:00:27,026
and efficiency combustion technologies as well
as computer models of flames by taking advantage

8
00:00:27,026 --> 00:00:30,116
of the station where gravity doesn't
complicate a flame's behavior.

9
00:00:30,486 --> 00:00:34,576
Pettit also spent some time earlier today
working again on his checkout of one

10
00:00:34,576 --> 00:00:36,316
of the station's combustion chambers.

11
00:00:36,756 --> 00:00:40,986
He checked out the LAN, USB and power

source for that facility yesterday

12
00:00:41,476 --> 00:00:44,706
and today spent some time
checking out the video for it,

13
00:00:44,706 --> 00:00:48,846
which of course is what allows scientists on
the ground to collect data from the experiments.

14
00:00:49,246 --> 00:00:52,586
Commander Dan Burbank worked with
the Capillary Flow Experiment today,

15
00:00:52,586 --> 00:00:56,646
which is aimed at understanding how
liquids in oddly shaped containers behave

16
00:00:56,646 --> 00:01:01,126
when gravity isn't present and ways that we
can control its behavior in microgravity.

17
00:01:01,436 --> 00:01:04,096
He also worked on the VO2Max
experiment which looks

18
00:01:04,096 --> 00:01:08,606
at how astronauts' aerobic capacity
changes after long stays in space,

19
00:01:09,176 --> 00:01:13,566
and the Thermolab experiment which
studies how their temperature regulation

20
00:01:13,566 --> 00:01:14,916
and circadian rhythms change.

21
00:01:15,916 --> 00:01:20,776
And on the Russian side of the space station
today Anatoly Ivanishin is working again

22
00:01:20,776 --> 00:01:25,936
with the TYPOLOGY experiment,
which studies the objectives...

23
00:01:25,936 --> 00:01:33,236
works to identify objectives for assessing the
mental health of crew in orbit on long flights

24
00:01:33,236 --> 00:01:35,236
and also their ability to perform tasks.

25
00:01:36,726 --> 00:01:43,486
Oleg Kononenko is working on the Seiner
experiment, which is aimed at ocean observation.