



1
00:00:03,586 --> 00:00:05,616
This is Mission control Houston.

2
00:00:05,616 --> 00:00:08,886
A very busy day onboard the
International Space Station

3
00:00:09,306 --> 00:00:15,386
as the crew onboard...Commander Dan
Burbank, fellow NASA astronaut Don Pettit,

4
00:00:15,566 --> 00:00:21,426
European Space Agency astronaut Andre Kuipers
and Russian cosmonauts Anton SHkaplerov,

5
00:00:21,426 --> 00:00:25,366
Anatoly Ivanishin and Oleg
Kononenko continue there work.

6
00:00:25,706 --> 00:00:29,996
Today's activities focusing on a
variety of different experiment

7
00:00:30,266 --> 00:00:33,466
and maintenance tasks aboard
the orbiting outpost.

8
00:00:33,706 --> 00:00:38,886
It's currently at an altitude of 240
statute miles on a southeasterly track

9
00:00:38,916 --> 00:00:45,506
over Southeast Asia heading for a crossing over
the central portion of Australia on this orbit.

10
00:00:46,516 --> 00:00:50,286
Here in the Christopher C. Kraft, Jr.
Mission Control Center in Houston,

11

00:00:50,566 --> 00:00:54,216

Chris Edelen is the Flight Director on console in charge of the team.

12

00:00:54,596 --> 00:00:59,726

He's got Josh Matthew available to talk with the crew on any number of different activities

13

00:00:59,726 --> 00:01:02,796

that the crew might have questions or need information on.

14

00:01:02,796 --> 00:01:07,856

And he's also got communication with flight control rooms around the world in Europe,

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00:01:07,856 --> 00:01:11,326

Russia and Japan where they are helping

16

00:01:11,326 --> 00:01:17,206

to manage the experiment activities aboard the multinational research outpost.

17

00:01:17,366 --> 00:01:23,086

Today another busy day as the crew is focusing primarily on the SLICE experiment

18

00:01:23,176 --> 00:01:28,196

which is an experiment that looks at combustion and with research activities

19

00:01:28,196 --> 00:01:30,666

into how the human body reacts to microgravity.

20

00:01:32,026 --> 00:01:36,286

Dan Burbank also conducting some maintenance on the space station's food warmer device

21

00:01:36,666 --> 00:01:42,606

and installing a couple of Joint Space Station

Local Area Network power and data cables

22

00:01:42,606 --> 00:01:44,796
into the Harmony module that
will help connect it

23

00:01:44,796 --> 00:01:47,886
to the European Space Agency
lab and Columbus module.

24

00:01:49,696 --> 00:01:52,996
Don Pettit again working
with the SLICE operations

25

00:01:52,996 --> 00:01:58,186
and Andre Kuipers is taking photographs
of the evaluation and monitoring

26

00:01:58,186 --> 00:02:02,206
of biofilms inside ISS or the Viable payload.

27

00:02:03,426 --> 00:02:06,776
He's also doing some maintenance
on the Waste Recovery System.

28

00:02:07,726 --> 00:02:10,786
This is some live video of the
combustion experiment that's going

29

00:02:10,786 --> 00:02:12,416
on right now, the SLICE experiment.

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00:02:12,716 --> 00:02:23,566
For more information about that you can go to
www.nasa.gov/slice or www.nasa.gov/station.

31

00:02:24,126 --> 00:02:28,796
Just to recap the week, again it's
been a very busy week onboard.

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00:02:28,796 --> 00:02:32,566

Monday the crew worked with some maintenance activities.

33

00:02:32,906 --> 00:02:37,696

They did a replacement on the Advanced Resistive Exercise Device.

34

00:02:37,696 --> 00:02:41,456

It's one of the ropes that's used on the different exercises that they perform.

35

00:02:42,076 --> 00:02:47,316

They also had a downlink for the NASA Future Forum honoring the 50th anniversary

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00:02:47,316 --> 00:02:53,046

of astronaut John Glenn's first American orbits of the Earth.

37

00:02:53,096 --> 00:02:56,596

On Tuesday they worked with a variety of different experiments.

38

00:02:56,596 --> 00:02:59,056

One of those the SPRINT experiment.

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00:02:59,486 --> 00:03:03,366

They also did some cleaning in the Leonardo Permanent Multipurpose Module.

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00:03:04,426 --> 00:03:09,966

They worked with the Microgravity Small Payload Rack combustion chamber preparing it

41

00:03:09,966 --> 00:03:10,976

for some samples.

42

00:03:11,496 --> 00:03:19,366

On Wednesday, they had an educational event with a consortium of schools in New Jersey.

43

00:03:19,666 --> 00:03:24,466

And they did alot ventilation system maintenance in the Columbus module.

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00:03:24,466 --> 00:03:27,956

They are checking all of those ventilation systems to make

45

00:03:27,956 --> 00:03:29,866

that they are providing good air flow.

46

00:03:30,246 --> 00:03:35,166

Here's some video of Dan Burbank who worked on that with Andre Kuipers in particular

47

00:03:35,566 --> 00:03:42,686

as they checked all of the seals and the fans and the ventilation system ducts that are used

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00:03:42,686 --> 00:03:46,996

to circulate air throughout the space station making sure in this case that those

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00:03:46,996 --> 00:03:49,046

in the Columbus module are working very well.

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00:03:49,206 --> 00:03:52,706

Very important for the crew to have good air circulation

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00:03:52,896 --> 00:03:56,546

so that they don't have carbon dioxide bubbles form around their heads

52

00:03:56,546 --> 00:03:58,696

which could be a health hazard for them.

53
00:04:00,046 --> 00:04:03,826
They also had some EVA tool stowage activities.

54
00:04:04,196 --> 00:04:10,656
Dan Burbank stowed the American pieces that were used by his Russian cosmonauts as they went

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00:04:10,656 --> 00:04:16,246
out the previous week on a spacewalk to move a large cargo boom on the outside

56
00:04:16,246 --> 00:04:20,426
of the Pirs docking compartment to another docking compartment outside the station.

57
00:04:21,946 --> 00:04:25,266
And the crew also worked on the Capillary Flow experiment.

58
00:04:25,386 --> 00:04:31,016
This particular experiment portion was the Vane experiment where they look at how fluids flow

59
00:04:31,016 --> 00:04:36,816
in unusually shaped containers with the goal to be able improve our understanding

60
00:04:36,816 --> 00:04:43,316
of the mathematical models that are used to build in particular tanks that are used

61
00:04:43,316 --> 00:04:47,596
to hold fluids for rocket engines that are used in space

62
00:04:47,596 --> 00:04:49,796
as microgravity fluids flow differently.

63
00:04:50,276 --> 00:04:53,116

This is video of some of the documentation

64

00:04:53,116 --> 00:04:58,316

of that Capillary Flow experiment
Vane system overview that occurred.

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00:04:59,486 --> 00:05:03,986

On Thursday, it was work with the
Atmosphere Revitalization bacteria filter.

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00:05:03,986 --> 00:05:07,916

They did some cleaning on that and
Don Pettit did some additional work

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00:05:07,956 --> 00:05:09,786

with the Capillary Flow experiment.

68

00:05:10,016 --> 00:05:12,606

And that brings is up-to-date for this week.

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00:05:12,666 --> 00:05:16,536

The crew is going to have an easy weekend,
just some routine maintenance activities