
EXIT

1
00:00:01,776 --> 00:00:03,286
This is Mission Control, Houston.

2
00:00:03,286 --> 00:00:08,116
We're getting close to wrapping up today's
ISS Update as the crew continues their work

3
00:00:08,116 --> 00:00:10,196
for their Friday afternoon activities.

4
00:00:10,196 --> 00:00:14,956
The crew has had a pretty busy week this
week with a variety of different experiments

5
00:00:15,316 --> 00:00:18,396
and maintenance work on board
the International Space Station.

6
00:00:18,756 --> 00:00:23,346
Burbank spent some time earlier
this week swapping out some parts

7
00:00:23,346 --> 00:00:25,246
of what's called an Amine Swingbed.

8
00:00:25,686 --> 00:00:31,996
The space station itself has a fairly
large-sized Carbon Dioxide Removal Assembly

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00:00:31,996 --> 00:00:32,646
on board.

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00:00:32,646 --> 00:00:38,056
This Amine Swingbed is a smaller more
efficient test version of a similar system

11
00:00:38,056 --> 00:00:42,016
that would scrub the air on board the
space station, so it is a project run

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00:00:42,016 --> 00:00:43,836
out of the Johnson Space Center here in Houston.

13
00:00:44,356 --> 00:00:47,946
They've tested it in labs here, so what
better way to test it out than just putting it

14
00:00:47,946 --> 00:00:51,166
on board the station and running
it there and seeing how it works.

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00:00:51,166 --> 00:00:54,876
So, Burbank swapped out some parts of
that earlier this week and then got

16
00:00:54,876 --> 00:00:57,156
that Amine Swingbed back up and running.

17
00:01:00,306 --> 00:01:05,156
While he was doing that, Don Pettit was
working on an experiment called Burning

18
00:01:05,156 --> 00:01:07,576
And Suppression of Solids, or BASS.

19
00:01:08,566 --> 00:01:12,346
He did a few different test runs of that
particular experiment, which takes a look

20
00:01:12,346 --> 00:01:16,406
at how things burn and how
flames react to being in space.

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00:01:16,936 --> 00:01:22,186
Fire detection and protection and
suppression is an important piece

22
00:01:22,186 --> 00:01:24,316

of flying aboard a spacecraft.

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00:01:24,356 --> 00:01:26,926
This BASS experiment takes a
look at how different things burn

24
00:01:27,196 --> 00:01:28,866
and how those fires could be put out.

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00:01:30,246 --> 00:01:35,026
There's a theory about how you would aim a
fire extinguisher at the base of the flame

26
00:01:35,026 --> 00:01:37,036
because that is where basically
the flame is born.

27
00:01:37,356 --> 00:01:41,786
That's where air gets fed into it, but of course
that may not react the same way up in space

28
00:01:41,786 --> 00:01:44,046
and in the absence of gravity
and the absence of air.

29
00:01:44,516 --> 00:01:48,446
So this BASS experiment basically
takes a look at that to find

30
00:01:48,446 --> 00:01:50,426
out how those fires could be put out.

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00:01:53,546 --> 00:01:58,746
Burbank also spent some time himself inside
the Quest airlock scrubbing those EMU suits.

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00:01:58,746 --> 00:02:02,306
Those are the spacesuits that the U.S.
astronauts use any time they step outside

33
00:02:02,306 --> 00:02:02,926
the station.

34
00:02:03,396 --> 00:02:07,026
That is some routine work that he took
care of, basically just pumping some water

35
00:02:07,496 --> 00:02:09,916
and some other items into
those suits, cleaning them out,

36
00:02:09,916 --> 00:02:14,136
making sure that there's no bacteria growing
and that they're up and running as expected.

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00:02:16,456 --> 00:02:20,686
Burbank himself, as well as Shkaplerov and
Ivanishin, getting ready to come home at the end

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00:02:20,686 --> 00:02:23,836
of the month on April 27,
so that particular portion

39
00:02:24,276 --> 00:02:28,326
of the Expedition 30 crew has begun
their deorbit preparations in earnest,

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00:02:28,756 --> 00:02:32,916
getting everything together, making
sure that they've got everything ready

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00:02:32,916 --> 00:02:35,176
to go for their return on April 27.

42
00:02:35,176 --> 00:02:41,346
The crew will be closing the hatches at
midnight Central time right on the dot April 27,

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00:02:41,916 --> 00:02:45,586

and they'll be landing north-northeast
of Arkalyk there in Kazakhstan

44
00:02:45,896 --> 00:02:50,026
at 6:45 a.m. Central time again on April 27.

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00:02:53,376 --> 00:02:56,886
The crew also spent some time talking
with media here on the ground.

46
00:02:56,886 --> 00:03:00,616
They had their traditional crew news
conference earlier this week as they spoke

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00:03:00,616 --> 00:03:03,766
with various media here in
Houston and around the country

48
00:03:03,766 --> 00:03:05,436
about life on board the space station.

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00:03:05,436 --> 00:03:08,376
There you see Don Pettit, Dan
Burbank on the far right-hand side,

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00:03:08,806 --> 00:03:10,286
Andre Kuipers there in the middle.

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00:03:10,286 --> 00:03:13,856
They talked about all the different
research activities that they have going on,

52
00:03:14,126 --> 00:03:17,846
the upcoming SpaceX Dragon
demonstration mission that Don Pettit

53
00:03:17,846 --> 00:03:23,866
and Kuipers will be an important part of,
and also Dan Burbank's thoughts on the fact

54
00:03:23,866 --> 00:03:26,036
that he's in his final two
weeks aboard the station.

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00:03:26,476 --> 00:03:30,766
So, the crew spent about a half-hour or so
talking with media about those activities.

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00:03:31,206 --> 00:03:37,346
The crew as a whole also getting ready
to say goodbye to the Progress 46.

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00:03:37,346 --> 00:03:40,446
That spacecraft has been docked with the
station there on the Pirs docking compartment

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00:03:40,446 --> 00:03:43,536
since January, it's time coming to a close.

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00:03:43,536 --> 00:03:46,986
So they've been packing it up with final
items and trash that they don't need.

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00:03:47,656 --> 00:03:51,926
That Progress 46 will undock from the Pirs
docking compartment coming up on April 19.

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00:03:51,926 --> 00:03:56,326
It'll back away, spend a few days doing some
engineering tests and then it will be deorbited

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00:03:56,326 --> 00:04:00,456
into a fiery destructive deorbit
into the Earth's atmosphere.

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00:04:00,456 --> 00:04:06,846
And finally the big news of the week is
that Don Pettit, Andre Kuipers getting ready

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00:04:06,846 --> 00:04:10,626
to welcome the Dragon spacecraft
from SpaceX coming up on April 30.

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00:04:11,326 --> 00:04:14,466
They began two weeks worth of
training activities on Monday.

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00:04:14,936 --> 00:04:17,976
Taking a look at the onboard laptops
at the Robotic Work Station there

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00:04:17,976 --> 00:04:20,986
in the Destiny laboratory there, you
see animation of what it's going to look

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00:04:20,986 --> 00:04:24,016
like once Dragon arrives at the
station about 10 meters away.

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00:04:24,566 --> 00:04:28,686
Don Pettit will be the one in charge,
using the station's robotic arm,

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00:04:29,066 --> 00:04:33,576
extending it out from the US segment,
grabbing onto Dragon and pulling it on in

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00:04:33,576 --> 00:04:35,456
to the bottom side of the Harmony node.

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00:04:36,346 --> 00:04:41,336
And that will be a major milestone for
not only NASA, but the SpaceX team there

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00:04:41,336 --> 00:04:46,706
that has been working for several years on this
Dragon, as well as the Falcon 9 spacecraft.

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00:04:46,706 --> 00:04:50,626

Of course for all the latest on this
upcoming mission we invite you to log

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00:04:50,626 --> 00:04:59,866
on to www.NASA.gov/SpaceX, and of course we will
have all the latest for you coming up on Monday

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00:05:00,416 --> 00:05:04,576
as we bring you the preflight briefing from here
at the Johnson Space Center after the conclusion

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00:05:05,086 --> 00:05:07,866
of the Flight Readiness Review here in Houston.

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00:05:08,456 --> 00:05:09,866
We thank you for joining us this week.

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00:05:09,996 --> 00:05:11,326
The crew has been very busy.