1
00:00:01,346 --> 00:00:02,706
This is Mission Control Houston.

2
00:00:02,706 --> 00:00:04,626
Welcome to today's ISS Update.

3
00:00:04,626 --> 00:00:07,866
It is Monday Febraury 13, 2012.

4
00:00:07,866 --> 00:00:10,926
You're looking at a live view inside the
Space Station Flight Control Room here

5
00:00:10,926 --> 00:00:12,986
at the Johnson Space Center in Houston, Texas.

6
00:00:14,886 --> 00:00:17,166
Today's flight director is Ed Van Cise.

7
00:00:17,166 --> 00:00:19,496
He and his team have been
working for the last several hours

8
00:00:19,496 --> 00:00:23,976
with the Expedition 30 crew onboard the
International Space Station as they work

9
00:00:23,976 --> 00:00:27,116
through a fairly busy day
onboard the orbiting complex.

10
00:00:27,116 --> 00:00:31,366
Dan Burbank, who is the commander of
Expedition 30, has spent the majority

11
00:00:31,366 --> 00:00:34,276
of his day working on cleaning
the crew quarters.

12
00:00:34,276 --> 00:00:38,316
These are basically the sleep stations
that each of the crew members live

13
00:00:38,436 --> 00:00:43,286
in during their off time onboard the
International Space Station itself.

14
00:00:45,186 --> 00:00:49,726
Joe Acaba, who is a future Expedition crew
member, he launches later on this year.

15
00:00:49,726 --> 00:00:54,256
He's actually inside Mission
Control sort of learning on the job

16
00:00:54,256 --> 00:00:56,736
as he watches Dan Burbank
clean his crew quarters.

17
00:00:57,786 --> 00:01:02,766
It's a very valuable experience for the crew
members to sit inside Mission Control and watch

18
00:01:02,766 --> 00:01:07,126
as their fellow crew members up in space work
around the station so they know what's ahead

19
00:01:07,126 --> 00:01:10,556
of them as they get ready for their
journey coming up later on this year.

20
00:01:11,476 --> 00:01:14,826
Anton Shkaplerov is working with Oleg Kononenko.

21
00:01:14,826 --> 00:01:17,156
These are our two spacewalkers
later on this week.

22

00:01:17,736 --> 00:01:22,696
The two of them are installing new sensors
inside their Orlan spacesuits onboard the

23
00:01:22,696 --> 00:01:23,466
Russian segment.

24
00:01:24,106 --> 00:01:26,956
Shkaplerov and Kononenko will
be stepping outside beginning

25
00:01:26,956 --> 00:01:30,306
at 8:15 a.m. Central time on Thursday.

26
00:01:30,756 --> 00:01:32,486
Of course we will have live coverage here

27
00:01:32,486 --> 00:01:36,456
on NASA Television beginning
at 7:45 a.m. Central time.

28
00:01:36,456 --> 00:01:39,466
Their spacewalk is going
to last about six hours.

29
00:01:40,016 --> 00:01:45,796
The main point of that spacewalk on Thursday
will be to relocate one of the Strela cranes.

30
00:01:45,796 --> 00:01:50,276
These are large telescoping
cranes and extensions that are

31
00:01:50,276 --> 00:01:51,806
on the outside on the Russian segment.

32
00:01:52,296 --> 00:01:56,526
The crew members use them to move around
and to translate and to gain access

33
00:01:56,526 --> 00:01:59,446
to various portions of the Russian segment.

34
00:01:59,906 --> 00:02:03,536
They're going to be moving one of those Strela
cranes from the Pirs docking compartment

35
00:02:03,926 --> 00:02:07,986
up to the upper portion of the International
Space Station and the Poisk module

36
00:02:08,436 --> 00:02:10,746
which is directly across from Pirs.

37
00:02:11,426 --> 00:02:18,026
This is being done in order to get the station
ready for the removal and disposal of Pirs

38
00:02:18,356 --> 00:02:21,196
to make way for a brand new
segment of the Russian part

39
00:02:21,196 --> 00:02:23,726
of the International Space
Station coming up next year.

40
00:02:25,426 --> 00:02:28,036
Anatoly Ivanishin, another
Expedition crew member,

41
00:02:28,036 --> 00:02:32,526
has been helping his crew members inside the
Russian segment this morning as they get ready

42
00:02:32,526 --> 00:02:33,916
for that spacewalk we talked about.

43
00:02:34,486 --> 00:02:39,366
He will focus the majority of his afternoon

replacing the smoke detectors inside the

44
00:02:39,366 --> 00:02:40,266
Russian segment.

45
00:02:40,846 --> 00:02:46,066
This is done throughout the year just to make
those smoke detectors are working as expected.

46
00:02:48,116 --> 00:02:50,996
Andre Kuipers has been busy moving some things

47
00:02:50,996 --> 00:02:53,996
around inside the endcone
of what's called the PMM.

48
00:02:53,996 --> 00:02:57,776
This is the Permanent Multipurpose Module
that was brought up to the station last year.

49
00:02:58,346 --> 00:03:03,846
It's a large storage container, basically a
very large closet that is mounted to the station

50
00:03:04,256 --> 00:03:07,636
and there's quite a bit of cargo up
there after the final shuttle missions

51
00:03:07,636 --> 00:03:10,626
and all the different Progresses
that have been visiting the station.

52
00:03:10,626 --> 00:03:14,716
So keeping track of things and moving things
around and making sure that the station is

53
00:03:14,716 --> 00:03:20,016
in tip-top shape is something that
the crew members work very hard on.

54
00:03:21,086 --> 00:03:25,106
Later on this afternoon, Kuipers will be working
on some of the station's onboard computers

55
00:03:25,456 --> 00:03:27,556
and updating some of the software on them.

56
00:03:28,126 --> 00:03:31,756
Don Pettit, another NASA crew
member, part of Expedition 30,

57
00:03:31,756 --> 00:03:34,036
has been working on a big
experiment called SLICE.

58
00:03:34,616 --> 00:03:37,986
This stands for Structure and
Liftoff In Combustion Experiment.

59
00:03:38,176 --> 00:03:43,096
This is an experiment inside the Microgravity
Science Glovebox, which is something

60
00:03:43,096 --> 00:03:46,346
that the crew members can actually
work on themselves that takes a look

61
00:03:46,346 --> 00:03:50,006
at how different flames behave
up there in space.

62
00:03:50,826 --> 00:03:56,546
Specifically, the SLICE experiment takes a
look at where the flame becomes what they call

63
00:03:56,546 --> 00:04:00,456
"lifted" so it comes up off of the
burner due to different flow conditions

64

00:04:00,456 --> 00:04:03,426
or the different combustion chemistry
that is inside that experiment.

65
00:04:03,656 --> 00:04:10,846
The hope of SLICE is to develop better
methods for increased fuel efficiency

66
00:04:11,316 --> 00:04:13,996
and also reduced pollutants here on Earth.

67
00:04:15,046 --> 00:04:18,966
Of course, for all the latest on the
experiments and science activities that the crew