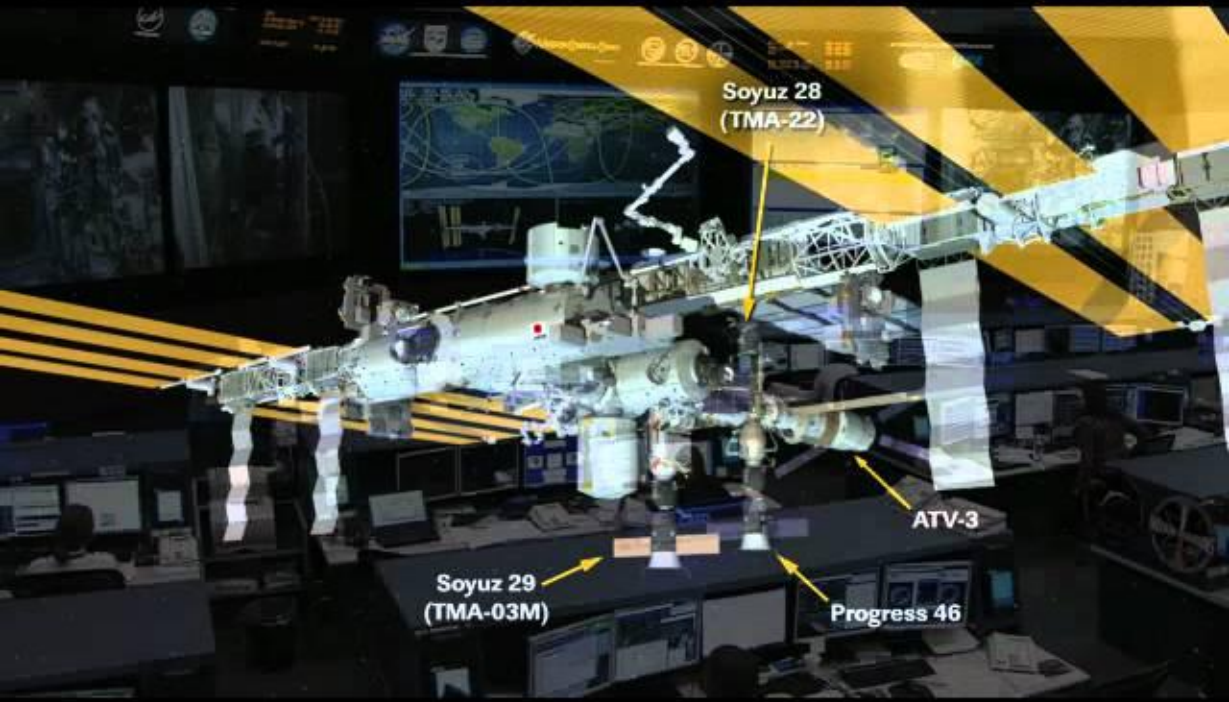
Soyuz 28
(TMA-22)
ATV-3
Soyuz 29
(TMA-03M)
Progress 46

1
00:00:01,976 --> 00:00:03,656
This is Mission Control, Houston.

2
00:00:03,656 --> 00:00:05,456
Welcome to today's ISS Update.

3
00:00:05,456 --> 00:00:07,846
It is Thursday, April 12, 2012.

4
00:00:07,846 --> 00:00:11,816
You're looking at a live view inside the
International Space Station's flight control

5
00:00:11,816 --> 00:00:13,146
room here at the Johnson Space Center.

6
00:00:13,656 --> 00:00:16,186
This is the Orbit Two team
here inside Mission Control.

7
00:00:16,186 --> 00:00:18,866
Today's flight director is Ed Van Cise.

8
00:00:18,866 --> 00:00:21,256
He is sitting there at the middle console.

9
00:00:22,316 --> 00:00:24,786
The Capcom today is Jeremy Hanson.

10
00:00:24,786 --> 00:00:29,016
The Expedition 30 crew on board the
International Space Station has quite a busy day

11
00:00:29,016 --> 00:00:32,606
today as they have most days,
working on research activity

12
00:00:32,606 --> 00:00:34,376

and different types of maintenance work.

13
00:00:36,396 --> 00:00:40,906
This is a live view, commander of Expedition
30 Dan Burbank on board the station.

14
00:00:40,906 --> 00:00:45,646
He's been removing and replacing a pump
separator in the Waste and Hygiene Compartment.

15
00:00:45,646 --> 00:00:47,706
This is taking up the majority of his day.

16
00:00:48,226 --> 00:00:53,446
He also has one last session of training as
part of his role as the crew medical officer.

17
00:00:53,936 --> 00:00:57,596
If you saw our interview yesterday with
Dr. Ed Powers, one of the flight surgeons,

18
00:00:57,596 --> 00:01:03,496
he talked about how various crew members
are trained to basically be onboard doctors

19
00:01:03,496 --> 00:01:07,386
since there is not always a medical
doctor up there as part of the crew.

20
00:01:07,386 --> 00:01:11,836
So, even though Burbank is getting close to
wrapping up his time on board the station,

21
00:01:11,836 --> 00:01:16,656
he will go through one more proficiency
training session as part of his role as one

22
00:01:16,656 --> 00:01:21,126
of the medical officers on board,
basically just making sure that he knows how

23
00:01:21,126 --> 00:01:25,396
to use the various medications and
medical equipment on board in case any

24
00:01:25,396 --> 00:01:27,606
of that should ever become necessary.

25
00:01:27,606 --> 00:01:34,296
He is also working with Andre Kuipers today to
conduct another one of these eye ultrasounds.

26
00:01:34,526 --> 00:01:40,406
How the crew members' eyes react to being up in
space for up to six months has become an area

27
00:01:40,406 --> 00:01:42,346
of focus here over the last few months.

28
00:01:42,736 --> 00:01:45,606
So they will conduct that
ultrasound as they continue

29
00:01:45,606 --> 00:01:48,736
to measure how their eyes are
behaving out there in space.

30
00:01:50,276 --> 00:01:55,236
Anton Shkaplerov is working in the Russian
segment today on a Russian crystal experiment.

31
00:01:55,646 --> 00:02:01,276
He is also packing up equipment that will
come home aboard the Soyuz TMA-22 spacecraft

32
00:02:01,276 --> 00:02:03,926
that will bring home Burbank,
Shkaplerov himself,

33

00:02:04,086 --> 00:02:07,216
as well as Anatoly Ivanishin
coming up here in about two weeks.

34
00:02:08,716 --> 00:02:13,196
Ivanishin himself is taking some surface
samples from inside the Zarya module

35
00:02:13,196 --> 00:02:15,216
that is part of the Russian segment.

36
00:02:15,636 --> 00:02:21,196
They do this periodically, basically just taking
some swabs of the walls and the floorboard

37
00:02:21,196 --> 00:02:25,026
and the ceiling and the other surfaces
just to make sure that there's no bacteria

38
00:02:25,026 --> 00:02:28,166
or anything untoward growing in that area.

39
00:02:29,466 --> 00:02:32,366
He is also working on some
crew departure preparations.

40
00:02:32,366 --> 00:02:35,376
Like we mentioned, he is part of
the crew with Shkaplerov and Burbank

41
00:02:35,816 --> 00:02:38,926
that will be coming home coming up on April 27.

42
00:02:38,976 --> 00:02:43,546
Oleg Kononenko is also working
in the Russian segment.

43
00:02:43,546 --> 00:02:49,066
He is working on some stowage of the materials
that came up on board the Progress 46.

44
00:02:49,526 --> 00:02:52,946
That particular cargo craft,
which is one of the spacecrafts

45
00:02:52,946 --> 00:02:57,036
that service the International
Space Station, came up in January.

46
00:02:57,036 --> 00:02:58,696
It is getting close to undocking.

47
00:02:58,696 --> 00:03:00,636
It's going to undock coming up on April 19.

48
00:03:00,636 --> 00:03:03,106
There is the current layout of the station

49
00:03:03,106 --> 00:03:07,236
with the Progress 46 back there
on the Pirs docking compartment.

50
00:03:07,666 --> 00:03:10,496
It brought up about, a little bit
less than three tons of supplies

51
00:03:10,496 --> 00:03:11,976
for the crew back a few months ago.

52
00:03:12,626 --> 00:03:15,726
There is quite a significant
amount of activity that has

53
00:03:15,726 --> 00:03:18,886
to be done using the station's
Inventory Management System,

54
00:03:19,476 --> 00:03:23,636
basically just taking the bar codes that come up

with the materials that come up on the Progress

55
00:03:23,636 --> 00:03:28,056
and also the ATV-3 which you see there back
in the back - the Automated Transfer Vehicle -

56
00:03:29,236 --> 00:03:33,956
making sure that all those cargo items get
stowed in the exact spot where they need to be

57
00:03:33,956 --> 00:03:38,576
so that the crew may find them when
the time comes to open up the packages

58
00:03:38,576 --> 00:03:40,326
and use whatever material came up.

59
00:03:40,326 --> 00:03:45,826
So he's going to be working on that today, as
well as packing that Progress full of trash

60
00:03:45,826 --> 00:03:49,036
and other items that the
crew doesn't need anymore.

61
00:03:49,546 --> 00:03:52,116
As we mentioned, the undocking
coming up on April 19.

62
00:03:52,116 --> 00:03:57,236
That will take place at 6:03 a.m.
Central time, 7:03 a.m. Eastern time.

63
00:03:57,656 --> 00:04:01,096
Of course we'll have video highlights of
that coming up here on NASA TV on that day.

64
00:04:01,626 --> 00:04:07,336
And finally Andre Kuipers and Don Pettit
working today - as they have all week long -

65
00:04:07,336 --> 00:04:09,826
on training for the upcoming SpaceX mission.

66
00:04:09,826 --> 00:04:10,836
They started that on Monday.

67
00:04:10,836 --> 00:04:15,556
They started about two weeks worth of training
activity using the Robotic Work Station

68
00:04:15,556 --> 00:04:17,916
that is inside the Destiny laboratory.

69
00:04:18,406 --> 00:04:21,906
There's actually two different
Robotic Work Stations on board,

70
00:04:21,906 --> 00:04:24,326
one in Destiny and also down in the cupola.

71
00:04:24,326 --> 00:04:28,966
That's actually the one that they will be
using coming up as the SpaceX Dragon heads

72
00:04:28,966 --> 00:04:30,646
up to the International Space Station.

73
00:04:31,196 --> 00:04:35,756
That launch time currently scheduled
for 11:22 a.m. Central time,

74
00:04:35,756 --> 00:04:39,766
12:22 p.m. Eastern time coming up on April 30.

75
00:04:39,766 --> 00:04:46,316
It will take about two days for the Dragon to
head up toward the International Space Station,

76
00:04:46,316 --> 00:04:50,446
so on the third day of the mission -
flight day three, which should be May 2 -

77
00:04:51,166 --> 00:04:54,566
that Dragon will perform a fly under
of the International Space Station

78
00:04:54,566 --> 00:04:56,276
at about 2.5 kilometers.

79
00:04:56,996 --> 00:05:01,356
The crew will be monitoring that; they will be
sending a quick command down to Dragon for it

80
00:05:01,356 --> 00:05:03,626
to turn on its strobe light, and then

81
00:05:03,626 --> 00:05:07,386
if all goes well during all the different
checkout activities, Dragon will perform a loop

82
00:05:07,386 --> 00:05:11,096
of the station and set up for the next
days' activities, which will be May 3.

83
00:05:11,866 --> 00:05:17,146
That'll actually be the rendezvous and
berthing if all checks out with Don Pettit

84
00:05:17,146 --> 00:05:22,376
at the controls of the station's robotic
arm and Andre Kuipers backing him up,

85
00:05:22,376 --> 00:05:26,686
as those two oversee Dragon's
rendezvous with the orbiting complex.

86
00:05:26,686 --> 00:05:28,936

We also want to remind you that coming

87
00:05:28,936 --> 00:05:32,366
up on Monday the International
Space Station Program is going

88
00:05:32,366 --> 00:05:35,776
to be having its Flight Readiness
Review where it will be taking a look

89
00:05:35,776 --> 00:05:38,356
at the final plans for SpaceX's mission.

90
00:05:38,806 --> 00:05:43,176
This final test flight is part of NASA's
Commercial Orbital Transportation Services.

91
00:05:44,436 --> 00:05:47,706
That Flight Readiness Review will take
place here at the Johnson Space Center.

92
00:05:47,706 --> 00:05:51,516
Once it wraps up, we will have a
preflight briefing here on NASA Television

93
00:05:51,966 --> 00:05:53,866
to take a look at the SpaceX mission.

94
00:05:55,116 --> 00:05:58,516
We cannot pinpoint the exact
time of that briefing,

95
00:05:58,516 --> 00:06:04,346
but it'll most likely be mid-to-late afternoon,
depending on when that FRR does wrap up,