1
00:00:01,390 --> 00:00:03,560
Good morning and welcome
to Mission Control Houston

2
00:00:03,560 --> 00:00:06,600
and the International Space Station Update.

3
00:00:06,600 --> 00:00:10,280
On board the International Space Station
the Expedition 30 crew has been awake

4
00:00:10,280 --> 00:00:14,620
since midnight central time; they're now more
than halfway through their day which is full

5
00:00:14,620 --> 00:00:17,070
of experiment work and maintenance.

6
00:00:17,070 --> 00:00:22,190
U.S. Commander Dan Burbank as well as
Russian Flight Engineers Anton Shkaplerov

7
00:00:22,190 --> 00:00:28,160
and Anatoly Ivanishin launched to the space
station in their Russian Soyuz TMA-22 vehicle

8
00:00:28,160 --> 00:00:32,040
on November 13 and docked to the space
station on November 15, so they're working

9
00:00:32,040 --> 00:00:35,790
on their 24th day in space and
their 22nd at space station.

10
00:00:35,790 --> 00:00:40,970
They've been alone on the station since the
Expedition 29 crew members left on November 21,

11
00:00:40,970 --> 00:00:45,220

but they'll soon be joined by three new
crewmates to replace those that left.

12
00:00:45,220 --> 00:00:50,120
Flight Engineers Don Pettit, Oleg
Kononenko and Andre Kuipers are currently

13
00:00:50,120 --> 00:00:54,730
at the Gagarin Cosmonaut Training
Center in Star City, Russia near Moscow.

14
00:00:54,730 --> 00:00:58,860
They've been conducting some administrative
work there today and they'll be moving tomorrow

15
00:00:58,860 --> 00:01:03,940
to the Baikonur Cosmodrome in Kazakhstan
where their Soyuz TMA-03 is being prepared

16
00:01:03,940 --> 00:01:06,840
for the December 21 launch to space station.

17
00:01:06,840 --> 00:01:10,490
This photo shows the ceremonial
sendoff on Tuesday at the headquarters

18
00:01:10,490 --> 00:01:13,010
of the Russian Federal space agency.

19
00:01:13,010 --> 00:01:19,460
Can see the crew here on the right of the
screen, from left to right, you have Don Pettit,

20
00:01:19,460 --> 00:01:21,580
Andre Kuipers, and Oleg Kononenko.

21
00:01:21,580 --> 00:01:25,980
This is a close-up and that first
photo you also saw Joel Montalbano,

22
00:01:25,980 --> 00:01:32,870
the NASA head of human spaceflight programs
in Russia, and also Vladimir Popovkin,

23
00:01:32,870 --> 00:01:36,920
the head of Roscosmos, and
other Russian space officials.

24
00:01:36,920 --> 00:01:43,680
This photo shows the backup
crew for the main Soyuz crew.

25
00:01:43,680 --> 00:01:48,360
Yuri Malenchenko, backup Soyuz
commander, as well as Suni Williams,

26
00:01:48,360 --> 00:01:49,950
the backup NASA flight engineer,

27
00:01:49,950 --> 00:01:55,220
and Japan Aerospace Exploration Agency astronaut
Aki Hoshide, another backup flight engineer.

28
00:01:55,220 --> 00:01:58,690
And then the group paused here for photo.

29
00:01:58,690 --> 00:02:03,630
From left to right you again got Don
Pettit, Andre Kuipers, Oleg Kononenko.

30
00:02:03,630 --> 00:02:10,260
Then in the center, Vladimir Popovkin, followed
by Yuri Malenchenko, then Alexei Krasnov,

31
00:02:10,260 --> 00:02:15,290
Roscosmos' head of piloted space
programs, and Williams and Hoshide.

32
00:02:15,290 --> 00:02:19,280

Pettit, Kuipers and Kononenko are scheduled
to reach the station and join Burbank,

33
00:02:19,280 --> 00:02:22,990
Shkaplerov and Ivanishin on December 23.

34
00:02:22,990 --> 00:02:25,470
But Burbank and his crew aren't
just waiting around for that.

35
00:02:25,470 --> 00:02:27,980
In the meantime they've got
plenty to keep them busy.

36
00:02:27,980 --> 00:02:30,660
Today Burbank began working
again on the PACE experiment,

37
00:02:30,660 --> 00:02:34,330
or Preliminary Advanced Colloids
Experiment, and changing out samples

38
00:02:34,330 --> 00:02:38,030
for an experiment inside the
Combustion Integrated Rack.

39
00:02:38,030 --> 00:02:41,320
He's also performing acoustic
measurements inside the station

40
00:02:41,320 --> 00:02:44,240
and helping to unpack Progress 45.

41
00:02:44,240 --> 00:02:48,980
Shkaplerov is working on the Coulomb Crystal
experiment, which looks at a special type

42
00:02:48,980 --> 00:02:53,330
of crystal and how it grows in zero gravity.