



1
00:00:01,130 --> 00:00:02,420
This is Mission Control Houston.

2
00:00:02,420 --> 00:00:07,220
Welcome to today's ISS update
for Wednesday, February 15, 2012.

3
00:00:07,220 --> 00:00:10,410
This is a live view inside the space
station's flight control room here

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00:00:10,410 --> 00:00:12,080
at the Johnson Space Center.

5
00:00:12,080 --> 00:00:14,410
Today's flight director is Ed Van Cise.

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00:00:14,410 --> 00:00:16,070
He is sitting there in the center console.

7
00:00:16,070 --> 00:00:21,960
Beside him is today's Capcom, the voice up to
the Expedition 30 crew, that is Kjell Lindgren,

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00:00:21,960 --> 00:00:25,730
an astronaut who's been working
with the crew last couple of hours

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00:00:25,730 --> 00:00:30,530
as the Expedition astronauts and cosmonauts
work through their daily activities.

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00:00:30,530 --> 00:00:35,230
Don Pettit who you see on the far right-hand
side has been taking a hearing test today.

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00:00:35,230 --> 00:00:37,340
This is part of a routine
check up on the crew members.

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00:00:37,340 --> 00:00:42,310

They all participate in this just make sure that their health is being maintained

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00:00:42,310 --> 00:00:48,190

and monitor how their bodies react to being up in space for five or six months.

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00:00:48,190 --> 00:00:50,190

He is also been working on what's called MELFI.

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00:00:50,190 --> 00:00:53,570

This is the Minus 80 Laboratory Freezer onboard the station.

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00:00:53,570 --> 00:00:58,770

This is a series of basically lockers that are held at extremely cold temperatures.

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00:00:58,770 --> 00:01:01,820

Here's a picture of one of them with Pettit working there.

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00:01:01,820 --> 00:01:06,410

They hold different types of samples and other pieces of the experiment hardware that need

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00:01:06,410 --> 00:01:11,430

to be held at a very cold temperature until they can be returned to Earth.

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00:01:11,430 --> 00:01:14,340

He's also been working on the ALTEA experiment which takes a look

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00:01:14,340 --> 00:01:19,690

at radiation levels aboard the station and Pettit has also been working on some training,

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00:01:19,690 --> 00:01:23,590

some routine training in his role
as the chief medical officer.

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00:01:23,590 --> 00:01:28,380

Obviously there's no physicians or
flight doctors up onboard the station,

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00:01:28,380 --> 00:01:31,940

so the crew has to watch over
and maintain their own health.

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00:01:31,940 --> 00:01:37,360

So he'll be taking some training for
that role later on this afternoon.

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00:01:37,360 --> 00:01:42,540

Andre Kuipers has been working on a system
called the Muscle Atrophy Resistive Exercise

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00:01:42,540 --> 00:01:44,580

System or MARES.

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00:01:44,580 --> 00:01:50,630

This is a chair and a restraint system much
like what you would find in a gym here on Earth

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00:01:50,630 --> 00:01:54,850

that measures and exercises seven different
joints to see what happens in space.

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00:01:54,850 --> 00:01:59,830

He is also continuing to clean up the endcone
of the Permanent Multipurpose Module or the PMM

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00:01:59,830 --> 00:02:04,760

which is basically a large storage closet
onboard the International Space Station.

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00:02:04,760 --> 00:02:08,690

There's quite a bit of cargo inside of it so he has been doing some inventory

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00:02:08,690 --> 00:02:15,150

and then moving some things around to make sure that everything is where it needs to be.

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00:02:15,150 --> 00:02:18,360

He's also continuing to work today on the Neurospat experiment.

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00:02:18,360 --> 00:02:20,850

He worked on this yesterday as well.

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00:02:20,850 --> 00:02:24,360

This looks at how the brain's signals change and behave in space.

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00:02:24,360 --> 00:02:26,290

You see him working on it there.

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00:02:26,290 --> 00:02:30,660

It tests perception, attention, memorization, decision and action

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00:02:30,660 --> 00:02:34,550

through different tasks as you see him doing there.

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00:02:35,790 --> 00:02:39,250

Oleg Kononenko and Anton Shkaplerov getting ready for tomorrow's activities.

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00:02:39,250 --> 00:02:42,920

They're going to be doing a spacewalk out of the Russian segment

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00:02:42,920 --> 00:02:44,430

of the International Space Station.

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00:02:44,430 --> 00:02:49,370
Today they reviewed the procedures for tomorrow
and inspected the Pirs docking compartment

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00:02:49,370 --> 00:02:52,950
to make sure that all the tools and
equipment are positioned and ready to go.

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00:02:52,950 --> 00:02:54,280
There you see the task list.

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00:02:54,280 --> 00:02:59,410
That first one, the relocation of the Strela
boom, Strela number one, that is going to take

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00:02:59,410 --> 00:03:01,800
up the majority of tomorrow's timeline.

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00:03:01,800 --> 00:03:04,540
The spacewalkers due to take about six hours.

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00:03:04,540 --> 00:03:07,360
That'll take about half of the time and then

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00:03:07,360 --> 00:03:10,030
in the remaining time they'll be
installing some debris shields

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00:03:10,030 --> 00:03:12,840
on the outside of the Russian segment.

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00:03:12,840 --> 00:03:16,700
And if time allows, they're going
to take care of some experiment work

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00:03:16,700 --> 00:03:19,020
on the outside of the station as well.

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00:03:19,020 --> 00:03:26,430
Our live coverage will begin tomorrow at 7:45
a.m. Central time, 8:45 a.m. Eastern time.

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00:03:26,430 --> 00:03:31,260
And then the spacewalk itself will get
kicked off at 8:15 a.m. Central time.

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00:03:31,260 --> 00:03:33,080
9:15 a.m. Eastern time.

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00:03:33,080 --> 00:03:36,500
Again, it'll run about six hours.

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00:03:36,500 --> 00:03:40,790
Meanwhile, Anatoly Ivanishin has been doing some
routine maintenance inside the Russian segment

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00:03:40,790 --> 00:03:41,440
of the station.

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00:03:41,440 --> 00:03:44,590
He is continuing doing that
work as we speak right now.

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00:03:44,590 --> 00:03:50,310
And then the other major task for today involves
Dan Burbank, the commander of Expedition 30.

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00:03:50,310 --> 00:03:54,620
He is continuing the checkout operations of
Robonaut, the robot that's on board the station.

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00:03:54,620 --> 00:03:56,310
This is a live view.

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00:03:56,310 --> 00:04:00,800
This work started yesterday to make sure
that Robonaut's joints and arms and hands

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00:04:00,800 --> 00:04:03,430

and fingers are working as expected.

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00:04:03,430 --> 00:04:06,630

Some of that activity has
spilled over into today.

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00:04:06,630 --> 00:04:09,970

So Dan Burbank is in the process
right now of watching over Robonaut.

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00:04:09,970 --> 00:04:14,170

Looks like something out of a science
fiction movie, but this is reality

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00:04:14,170 --> 00:04:16,780

as Robonaut checks out his
hands and his fingers.

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00:04:16,780 --> 00:04:22,430

There was a handshake scheduled for
yesterday between Robonaut and Burbank,

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00:04:22,430 --> 00:04:28,460

which is a very large milestone for not
only of the crew, the Expedition 30 crew,

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00:04:28,460 --> 00:04:32,230

but also the ground teams here in Houston
that have worked on Robonaut over the months

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00:04:32,230 --> 00:04:36,750

and years, as the first handshake
between the robot and human takes place.

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00:04:36,750 --> 00:04:41,220

That did not happen yesterday
but it is due to happen today.

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00:04:41,220 --> 00:04:44,670

So we will continue to monitor this
during our broadcast hour today.