



1  
00:00:05,126 --> 00:00:08,196  
>> Welcome to today's edition  
of "Space Station Live".

2  
00:00:08,806 --> 00:00:12,726  
All six crew members have  
a fairly busy day today.

3  
00:00:12,726 --> 00:00:14,976  
A lot of science  
activity is going on.

4  
00:00:14,976 --> 00:00:16,536  
It's being overseen primarily

5  
00:00:16,606 --> 00:00:18,586  
from NASA's Marshall  
Space Flight Center

6  
00:00:18,586 --> 00:00:19,826  
in Huntsville, Alabama.

7  
00:00:20,366 --> 00:00:23,896  
Once the crew members finish  
their early morning chores

8  
00:00:23,896 --> 00:00:26,446  
after wake up, they divide  
and conquer and head off

9  
00:00:26,446 --> 00:00:27,646  
in different directions.

10  
00:00:28,096 --> 00:00:31,496  
Wakata spent a good deal of  
the first half of his day

11  
00:00:32,046 --> 00:00:35,576  
in the Japanese science

laboratory [inaudible],

12

00:00:35,576 --> 00:00:39,606

the Japanese word for hope,  
conducting some experiments,

13

00:00:39,606 --> 00:00:43,146

checking on others, and  
joining his colleagues

14

00:00:43,256 --> 00:00:46,546

for an early morning long  
doesn't teleconference

15

00:00:46,546 --> 00:00:50,246

with the ground to  
set the stage for all

16

00:00:50,246 --> 00:00:51,826

of the activities on board.

17

00:00:52,446 --> 00:00:58,396

In the US lab, much of the  
time spent today is on breaking

18

00:00:58,396 --> 00:01:01,396

down some experiments that have  
already been underway including

19

00:01:01,396 --> 00:01:04,846

some work on the  
in-space experiment,

20

00:01:04,846 --> 00:01:07,326

a colloidal fluids experiment.

21

00:01:07,676 --> 00:01:12,516

Also working with the  
facet experiment known

22

00:01:12,516 --> 00:01:14,296

as the investigation  
of mechanism,

23

00:01:14,696 --> 00:01:18,716

faceted cellular array growth,  
investigating the phenomena

24

00:01:18,716 --> 00:01:21,546

of solid liquid interfaces  
for crystallization.

25

00:01:22,016 --> 00:01:26,336

The crew members also working  
on a crystal growth mechanism,

26

00:01:26,586 --> 00:01:29,176

crystal growth experiment  
known as ice crystal,

27

00:01:30,166 --> 00:01:34,906

which is essentially, studies  
the stability of ice crystals

28

00:01:34,906 --> 00:01:37,896

in super cooled water  
including anti-freeze.

29

00:01:38,566 --> 00:01:44,706

This designed to help understand  
how these different types

30

00:01:44,706 --> 00:01:49,896

of solutions are required to  
be modified for use on Earth

31

00:01:49,896 --> 00:01:52,886

and what we can learn in  
the microgravity and space

32

00:01:52,886 --> 00:01:54,916

to more purify such crystals.

33

00:01:54,916 --> 00:01:58,386

So those are just a  
few of the experiments

34

00:01:58,386 --> 00:02:00,136

that the crew members  
are interfacing

35

00:02:00,136 --> 00:02:02,886

with throughout their day today.

36

00:02:03,476 --> 00:02:07,166

They also, of course, have some  
other activities scheduled.

37

00:02:07,166 --> 00:02:09,976

A lot of human research  
experiments.

38

00:02:10,216 --> 00:02:12,736

Periodically, the crew  
members test each other

39

00:02:13,206 --> 00:02:18,886

for their eye acuity, if you  
will, and today marks one

40

00:02:18,886 --> 00:02:23,946

of those days where the periodic  
checking of their ocular health

41

00:02:23,946 --> 00:02:26,486

through blood pressure  
and tonometry,

42

00:02:26,486 --> 00:02:30,006

which is essentially an  
intraocular pressure test that's

43

00:02:30,006 --> 00:02:33,956  
conducted on the crew members'  
eyes to understand changes

44

00:02:34,566 --> 00:02:37,756  
in their eyes and their visual  
acuity throughout the duration

45

00:02:37,756 --> 00:02:39,446  
of their stay aboard  
the station.

46

00:02:39,616 --> 00:02:43,026  
So a busy day for crew  
members in and around that.

47

00:02:43,026 --> 00:02:46,216  
They, of course, perform  
their routine exercise.

48

00:02:46,216 --> 00:02:48,876  
The newest crew members  
are allotted some time

49

00:02:48,876 --> 00:02:51,676  
for continuing to  
adapt to the station

50

00:02:51,676 --> 00:02:54,506  
and learn their new  
environment, which is their home