1
00:00:03,235 --> 00:00:05,004
This is Mission Control Houston.

2
00:00:05,004 --> 00:00:08,174
This week has been a very busy
week for the Expedition 34 crew

3
00:00:08,174 --> 00:00:11,343
with a wide range of activities
being completed by the crew.

4
00:00:11,343 --> 00:00:12,578
One of the biggest activities

5
00:00:12,578 --> 00:00:14,780
of this week was being
the undocking and docking

6
00:00:14,780 --> 00:00:16,582
of the Progress spacecraft.

7
00:00:16,582 --> 00:00:19,251
That swap kicked off last
weekend with the undocking

8
00:00:19,251 --> 00:00:21,787
of the Progress 48
spacecraft, which undocked

9
00:00:21,787 --> 00:00:23,756
from the space station
last Saturday.

10
00:00:23,756 --> 00:00:25,624
With its successful
deorbit completed,

11
00:00:25,624 --> 00:00:27,593
the Progress 50 spacecraft

launched Monday

12
00:00:27,593 --> 00:00:30,996
at 8:41 AM central time
from the Baikonur Cosmodrome

13
00:00:30,996 --> 00:00:34,200
in Kazakhstan to send the
Progress on an accelerated 4-

14
00:00:34,200 --> 00:00:37,903
orbit six-hour rendezvous to
the International Space Station.

15
00:00:37,903 --> 00:00:39,705
That single day
launch-to-docking went

16
00:00:39,705 --> 00:00:41,574
by the book with the
cargo craft docking

17
00:00:41,574 --> 00:00:45,044
to the orbiting complex's
Pirs docking compartment

18
00:00:45,044 --> 00:00:47,913
on Monday afternoon,
bringing with it nearly 3 tons

19
00:00:47,913 --> 00:00:49,915
of supplies and equipment.

20
00:00:49,915 --> 00:00:51,283
The crew performed leak checks

21
00:00:51,283 --> 00:00:52,952
and opened the hatches
Tuesday morning,

22
00:00:52,952 --> 00:00:54,820
which kicked off the
extensive unpacking

23
00:00:54,820 --> 00:00:56,755
that has continued
throughout the week.

24
00:00:56,755 --> 00:00:59,925
Ultimately the crew will
transfer more than 1,700 pounds

25
00:00:59,925 --> 00:01:02,728
of propellant, a hundred
pounds of air and oxygen,

26
00:01:02,728 --> 00:01:04,997
900 pounds of water
and 3,000 pounds

27
00:01:04,997 --> 00:01:08,234
of supply items and equipment.

28
00:01:08,234 --> 00:01:09,768
While the cosmonauts
primarily led

29
00:01:09,768 --> 00:01:12,571
that unpacking effort their US
counterparts have spent a fair

30
00:01:12,571 --> 00:01:14,406
amount of time this week
with prepack activities

31
00:01:14,406 --> 00:01:18,010
for the next visiting
vehicle, the Dragon spacecraft.

32

00:01:18,010 --> 00:01:21,147
That vehicle is now planned to
visit the station in early March

33
00:01:21,147 --> 00:01:23,849
and the team is already making
preparations for that visit.

34
00:01:23,849 --> 00:01:26,218
Astronaut Tom Marshburn and
Chris Hadfield spent a lot

35
00:01:26,218 --> 00:01:28,854
of time gathering supplies and
equipment that will be loaded

36
00:01:28,854 --> 00:01:31,724
onto that vehicle which has
the added capability being able

37
00:01:31,724 --> 00:01:34,059
to return supplies and
equipment samples to Earth.

38
00:01:34,059 --> 00:01:38,898
In addition with Commander Kevin
Ford the three spent time this

39
00:01:38,898 --> 00:01:40,466
week performing refresher
training

40
00:01:40,466 --> 00:01:43,569
on the robotic arm operations,
performing numerous sessions

41
00:01:43,569 --> 00:01:46,605
of onboard computer-based
simulation and working

42

00:01:46,605 --> 00:01:48,541
with the ground robotic
specialist to coordinate

43
00:01:48,541 --> 00:01:51,544
and fine tune the procedures
for that upcoming spacecraft,

44
00:01:51,544 --> 00:01:53,412
which will need the
robotic arm to retrieve

45
00:01:53,412 --> 00:01:55,614
and dock it to the
space station.

46
00:01:55,614 --> 00:01:58,551
Other activities this week
included continued extensive

47
00:01:58,551 --> 00:02:00,119
work by Kevin Ford
on maintenance

48
00:02:00,119 --> 00:02:03,722
of the Internal Thermal Control
System, checkouts with Robonaut,

49
00:02:03,722 --> 00:02:07,726
the onboard humanoid
robot, and experiments.

50
00:02:09,028 --> 00:02:11,197
Maintenance work with the
Combustion Integration Rack

51
00:02:11,197 --> 00:02:14,900
experiment facility as well
as Water Processing Assembly

52

00:02:14,900 --> 00:02:19,071
and laptop swaps in the Columbus
module were also completed.

53
00:02:19,071 --> 00:02:21,740
Experiment work this
week was on a variety

54
00:02:21,740 --> 00:02:25,177
of experiments including the
Binary Colloidal Alloy [Test]

55
00:02:25,177 --> 00:02:28,414
study and InSPACE, a
study of the behavior

56
00:02:28,414 --> 00:02:32,051
of physical properties of fluids
in response to magnetic fields

57
00:02:32,051 --> 00:02:34,486
in space which may
ultimately lead to improvements

58
00:02:34,486 --> 00:02:35,988
in the ability to
design structures,

59
00:02:35,988 --> 00:02:39,358
such as buildings
and bridges on Earth.

60
00:02:39,358 --> 00:02:41,860
The International Space Station
is an official US national

61
00:02:41,860 --> 00:02:44,096
laboratory supporting
a wide range

62

00:02:44,096 --> 00:02:46,999
of active experiments
at any time.

63
00:02:46,999 --> 00:02:49,568
For a complete rundown of all
the experiments and facilities

64
00:02:49,568 --> 00:02:52,638
on the space station, you can
visit our webpage dedicated

65
00:02:52,638 --> 00:02:53,739
to the research

66
00:02:53,739 --> 00:02:55,841
on the International
Space Station website

67
00:02:55,841 --> 00:02:59,979
at www.nasa.gov/station
and click

68
00:02:59,979 --> 00:03:02,681
on the research tab
on the upper left.

69
00:03:02,681 --> 00:03:05,651
The crew's weekend will include
a few routine housekeeping tasks

70
00:03:05,651 --> 00:03:08,220
and family conferences but
otherwise off-duty time