



WORLD SCIFEST

1
00:00:07,450 --> 00:00:10,690
This Week at NASA...

2
00:00:10,690 --> 00:00:16,139
The three crew members of Expedition 23 made a safe return to Earth after their Soyuz

3
00:00:16,139 --> 00:00:22,100
flight from the International Space Station. Commander Oleg Kotov, NASA astronaut T.J.

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00:00:22,100 --> 00:00:27,270
Creamer, and Soichi Noguchi of the Japan Aerospace Exploration Agency were met

5
00:00:27,270 --> 00:00:31,520
on the steppe of Kazakhstan by Russian personnel who extracted them from

6
00:00:31,520 --> 00:00:36,550
their capsule and helped begin their readjustment to gravity after almost six months

7
00:00:36,550 --> 00:00:42,250
in space. The trio of space travelers was later greeted

8
00:00:42,250 --> 00:00:46,490
in a traditional ceremony at the airport in Karaganda, Kazakhstan.

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00:00:46,490 --> 00:00:50,390
"You hear the standard phrase -- we have mixed emotions -- but they are. We've given

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00:00:50,390 --> 00:00:56,230
so much time already to this ship, making it work and working well with the ground,

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00:00:56,230 --> 00:00:58,920

and

trying to be productive. We invested a lot

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00:00:58,920 --> 00:01:05,140

of ourselves in this hold process and it's kind of hard to let go of that."

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00:01:05,140 --> 00:01:09,530

"Well I'm happy to be here for this signing. The NASA Glenn Research Center is without

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00:01:09,530 --> 00:01:14,189

the question an amazing asset to our state and to our nation."

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00:01:14,189 --> 00:01:18,659

The Glenn Research Center hosted Ohio Governor Ted Strickland, Ohio Senator

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00:01:18,659 --> 00:01:23,340

Sherrrod Brown and other VIPs at several gatherings to underscore the center's

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00:01:23,340 --> 00:01:28,479

contributions to the state and nation.

"This is an agreement that reflects our

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00:01:28,479 --> 00:01:31,659

deep respect for the revolutionary work that is

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00:01:31,659 --> 00:01:38,420

being done at NASA Glenn and the burgeoning growth of the aerospace industry in

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00:01:38,420 --> 00:01:41,770

Ohio."

Strickland and Glenn's Acting Center Director

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00:01:41,770 --> 00:01:47,060

Ray Lugo signed a memorandum of understanding that continues collaboration

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00:01:47,060 --> 00:01:51,590

on technology efforts.

The President's budget proposal for NASA

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00:01:51,590 --> 00:01:56,759

would boost federal investment in

Northeast Ohio, and create new aerospace jobs

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00:01:56,759 --> 00:02:02,219

in the region. The Administration's

plan calls for the Center to receive \$2.15

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00:02:02,219 --> 00:02:05,649

billion in funds over the next five years

for

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00:02:05,649 --> 00:02:12,690

space and aeronautic programs.

As this year's hurricane season gets underway,

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00:02:12,690 --> 00:02:17,130

the Goddard Space Flight Center has

unveiled, for the media, NASA's new climate

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00:02:17,130 --> 00:02:22,860

simulation center. An amalgam of

supercomputing, visualization, and data interaction

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00:02:22,860 --> 00:02:27,260

technologies, the climate

simulation center, supports weather and climate

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00:02:27,260 --> 00:02:32,470

prediction research at one of the

world's largest contingents of Earth scientists.

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00:02:32,470 --> 00:02:36,129

"The exciting thing about these particular machines is that they are based on the halem

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00:02:36,129 --> 00:02:41,410

processors by Intel. And those processors are twice as fast as the previous generation

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00:02:41,410 --> 00:02:44,310

machines. So we can get something twice as fast and we

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00:02:44,310 --> 00:02:49,549

can provide the scientists computing power to double their capability to support the

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00:02:49,549 --> 00:02:53,510

really important stuff that's being done with weather and climate research."

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00:02:53,510 --> 00:02:58,260

Scientists will use the climate simulation center's cutting edge capabilities to research

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00:02:58,260 --> 00:03:03,189

everything from cloud and hurricane features, to projections of climate change for

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00:03:03,189 --> 00:03:07,269

decades and centuries to come.

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00:03:07,269 --> 00:03:11,909

Space is the focus of this year's World Science Festival in New York. And what better

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00:03:11,909 --> 00:03:17,550

way to symbolize this large-scale annual science event than this towering, full-scale

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00:03:17,550 --> 00:03:23,310

model of NASA's James Webb Space Telescope.
Set up in the city's Battery Park, the

42
00:03:23,310 --> 00:03:27,349
model of the successor to the Hubble Space
Telescope served not only as the

43
00:03:27,349 --> 00:03:32,459
backdrop for the annual event's kickoff,
but also as a feature for festival goers – and

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00:03:32,459 --> 00:03:35,719
an
estimated 85,000 daily commuters.

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00:03:35,719 --> 00:03:39,999
This third annual World Science Festival,
what its organizers call “a tribute to

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00:03:39,999 --> 00:03:45,189
imagination, ingenuity and inventiveness,”
aims at making science more interesting

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00:03:45,189 --> 00:03:50,249
and accessible to the public by “taking
it out of the lab” and into the streets,

48
00:03:50,249 --> 00:03:56,079
theaters,
and museums of New York.

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00:03:56,079 --> 00:04:00,750
Four student teams representing high schools
in Virginia, Pennsylvania, Utah, and

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00:04:00,750 --> 00:04:05,790
North Carolina were at the Glenn Research
Center to compete in NASA's Balloonsat

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00:04:05,790 --> 00:04:11,069

High Altitude Flight Days. Each team launched a balloon carrying experiments to an

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00:04:11,069 --> 00:04:17,750
altitude of about 100,000 feet. After recovering their experiments the teams presented

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00:04:17,750 --> 00:04:23,310
their findings at the Balloonsat symposium. And when I saw it go up into space I was crossing

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00:04:23,310 --> 00:04:29,150
my fingers that it wouldn't crash into a tree or something."

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00:04:29,150 --> 00:04:34,560
Balloonsat is sponsored by Teaching from Space, a NASA Education Office at NASA's

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00:04:34,560 --> 00:04:39,420
Johnson Space Center in Houston, the Educational Programs Office at Glenn and the

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00:04:39,420 --> 00:04:44,990
Ohio Space Grant Consortium. Its objective is to attract and retain students in STEM

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00:04:44,990 --> 00:04:50,420
disciplines critical to the agency's missions -- science, technology, engineering and

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00:04:50,420 --> 00:04:53,450
mathematics.

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00:04:53,450 --> 00:04:58,530
Officials representing Palmdale, the Dryden Flight Research Center and the AERO

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00:04:58,530 --> 00:05:04,340
Institute participated in a rededication ceremony

to mark the reopening of Dryden's

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00:05:04,340 --> 00:05:09,230
Educator Resource and Visitor Center. Housed
at the AERO Institute in the Palmdale

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00:05:09,230 --> 00:05:13,790
Civic Center, the center provides teachers
and parents with STEM educational

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00:05:13,790 --> 00:05:17,200
materials.
"There are so many things here that NASA

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00:05:17,200 --> 00:05:22,130
does that people don't know about and so
that's part of the mission of the Aero Institute,

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00:05:22,130 --> 00:05:26,350
and part of the mission of NASA is to
really reach out to the public here in the

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00:05:26,350 --> 00:05:29,320
community because this is our source of our
workforce."

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00:05:29,320 --> 00:05:34,720
The Aero Institute is, I think, best equipped
to inspire young people and develop this

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00:05:34,720 --> 00:05:39,970
connection to lifetime learning."
Visitors touring the newly reopened center

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00:05:39,970 --> 00:05:44,430
saw a demonstration of Dryden's Digital
Learning Network studio.