



Anatoly Ivanishin

EXPEDITION 29 FLIGHT ENGINEER

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00:00:01,606 --> 00:00:06,966

NARRATOR: The International Space Station's Expedition 29 is the first long-duration space

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00:00:06,966 --> 00:00:09,386

flight for all three of its upcoming crew members,

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00:00:09,466 --> 00:00:13,476

but for one of them it's not even his first trip to the station.

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00:00:13,476 --> 00:00:16,256

DAN BURBANK: Dan Burbank is from central Connecticut,

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00:00:16,566 --> 00:00:18,966

born in Manchester and raised in Tolland.

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00:00:19,436 --> 00:00:24,266

He became interested in space and astronomy and science when the first men landed

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00:00:24,266 --> 00:00:27,596

on the Moon just one week before his eighth birthday.

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00:00:28,286 --> 00:00:33,416

But a bigger impression was made a year later when he saw the movie "The Boatniks."

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00:00:33,586 --> 00:00:36,826

DAN BURBANK: And it was this silly story about this fellow who graduates

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00:00:36,826 --> 00:00:41,056

from the Coast Guard Academy and goes to a ship and, and has this whole series of misadventures,

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00:00:41,056 --> 00:00:45,196

but from that point on, as long as I can remember, I wanted to be in the Coast Guard,

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00:00:45,196 --> 00:00:46,686

I wanted to do search and rescue.

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00:00:46,686 --> 00:00:51,976

NARRATOR: He didn't get into the Coast Guard Academy on his first try, but after two years

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00:00:51,976 --> 00:00:56,856

as a physics major at Fairfield University he did, and learned almost immediately

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00:00:56,856 --> 00:00:59,836

that Coast Guard officers don't do search and rescue

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00:00:59,836 --> 00:01:01,996

on small boats, as he had dreamed of doing.

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00:01:02,496 --> 00:01:06,236

But helicopter pilots did, and that became his new goal.

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00:01:06,716 --> 00:01:11,616

Burbank graduated with a Bachelor of Science in Engineering and spent a year and a half assigned

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00:01:11,616 --> 00:01:14,406

to a Coast Guard cutter before going to flight school

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00:01:14,476 --> 00:01:16,996

and learning to fly planes and helicopters.

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00:01:16,996 --> 00:01:20,996

After his first tour he earned a Master's in Aeronautical Science

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00:01:20,996 --> 00:01:24,706
from Embry-Riddle Aeronautical
University and completed the training

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00:01:24,706 --> 00:01:27,206
to become an engineering officer, and did

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00:01:27,206 --> 00:01:30,266
that job while still flying
on subsequent assignments.

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00:01:30,736 --> 00:01:35,346
But he was inspired when fellow Coast Guard
officer Bruce Melnick became an astronaut,

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00:01:35,686 --> 00:01:41,116
and Burbank applied three times before
being selected as an astronaut in 1996.

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00:01:41,606 --> 00:01:45,266
He was part of the 2000 shuttle
mission that prepared the Zvezda module

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00:01:45,266 --> 00:01:49,306
for the station's first permanent
crew, performed one spacewalk

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00:01:49,306 --> 00:01:56,176
on the 2006 shuttle mission that delivered the
P3/P4 truss, and then spent three years teaching

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00:01:56,176 --> 00:02:00,636
at the Coast Guard Academy before retiring
as a captain and beginning training

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00:02:00,636 --> 00:02:04,636
for his first long-duration space
flight, which he likens to the work

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00:02:04,636 --> 00:02:06,796
that drew him to the Coast Guard as a boy.

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00:02:06,796 --> 00:02:10,506
DAN BURBANK: You're not going and doing
a mission with the idea that you're going

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00:02:10,506 --> 00:02:13,646
to save a life, you're going to do a
mission with the idea that you're going

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00:02:13,646 --> 00:02:17,296
to save the future of a species and
that this is where humans belong.

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00:02:17,296 --> 00:02:21,836
I think humans by their very nature, you
know, are outward-looking and I think it's

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00:02:21,836 --> 00:02:26,986
in our destiny to leave this planet
ultimately and to go other places.

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00:02:26,986 --> 00:02:32,406
NARRATOR: Russian Air Force Colonel Anton
Shkaplerov was born and raised in Sevastopol,

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00:02:32,666 --> 00:02:35,256
the home of the Russian Navy's Black Sea fleet.

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00:02:35,746 --> 00:02:40,136
Though his father worked on a submarine,
Shkaplerov became fascinated with space flight

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00:02:40,136 --> 00:02:43,986
as a boy and felt that the Air Force
was the best path to cosmonaut,

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00:02:44,316 --> 00:02:46,536

so he joined a local aviation club.

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00:02:47,406 --> 00:02:51,036

ANTON SHKAPLEROV: I started flying planes at 15.

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00:02:51,036 --> 00:02:54,456

At 16 I was flying them on my own.

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00:02:54,456 --> 00:02:58,016

I was flying over my hometown where I was born.

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00:02:58,016 --> 00:03:02,016

Everything was so familiar
and pleasant to the eye.

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00:03:02,016 --> 00:03:06,186

So then I realized that after
two years of flying,

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00:03:06,446 --> 00:03:09,126

when I was in high school, the choice was right.

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00:03:09,186 --> 00:03:14,746

NARRATOR: After high school Shkaplerov went to
the Kachinsk Air Force Pilot School in Volgograd

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00:03:14,976 --> 00:03:17,046

and graduated as a pilot-engineer.

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00:03:17,586 --> 00:03:23,416

He flew MIG-29s while attending the Zukovsky Air
Force Engineering School, then spent six years

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00:03:23,416 --> 00:03:26,596

as a pilot-instructor while
also flying as a member

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00:03:26,596 --> 00:03:29,606

of the Sky Hussars, a flight

demonstration squadron.

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00:03:30,196 --> 00:03:34,346

Shkaplerov was selected as a cosmonaut in 2003.

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00:03:34,376 --> 00:03:45,366

ANTON SHKAPLEROV: If we do not study the space,
we will stalemate, and we have to move on,

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00:03:45,366 --> 00:03:56,526

we have to study new planets, new horizons, new
resources, new energy resources, for example.

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00:03:56,526 --> 00:04:03,146

Maybe there is some other types of forms
of life on other planets, so why not?

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00:04:03,846 --> 00:04:07,656

NARRATOR: Anatoly Ivanishin, a
Lieutenant Colonel in Russia's Air Force,

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00:04:08,006 --> 00:04:11,756

is a native of Irkutsk, one of
the largest cities in Siberia.

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00:04:12,266 --> 00:04:16,026

He spent a lot of time in various
sports and study groups as a boy,

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00:04:16,606 --> 00:04:21,516

and although his mother says he always wanted
to be a cosmonaut Ivanishin remembers wanting

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00:04:21,516 --> 00:04:26,336

to be a fighter pilot, and that's why he
joined a skydiving club as a young teenager.

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00:04:26,936 --> 00:04:33,186

ANATOLY IVANISHIN: At the time it was the
only sky-related activity available for me.

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00:04:33,416 --> 00:04:43,136

We didn't have at the time an opportunity
in my city to fly any kind of airplanes,

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00:04:43,216 --> 00:04:47,986

so I did my first jump when I was 14...

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00:04:47,986 --> 00:04:51,796

NARRATOR: He didn't get into military
pilot school on his first attempt,

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00:04:52,126 --> 00:04:55,496

so Ivanishin spent a year
majoring in aviation design

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00:04:55,496 --> 00:04:59,476

at the Irkutsk Polytechnic Institute
before starting his pilot training

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00:04:59,626 --> 00:05:02,366

at the Chernigov Higher Military
Aviation School.

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00:05:02,716 --> 00:05:10,016

He graduated in 1991, the same year the Soviet
Union collapsed, and although he flew the MIG-29

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00:05:10,016 --> 00:05:14,876

and SU-27 operationally he felt he
wasn't getting the experience he wanted,

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00:05:15,216 --> 00:05:20,796

so he took classes at Moscow State University
in economics, statistics and information theory.

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00:05:21,256 --> 00:05:25,656

He graduated in 2003 with plans for
a career as a software developer,

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00:05:26,066 --> 00:05:30,496

but gave that up when he was selected
as a cosmonaut that very same week.

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00:05:30,496 --> 00:05:36,776

ANATOLY IVANISHIN: Human beings are too
curious creatures and they will not remain

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00:05:37,166 --> 00:05:39,686

for long time on low Earth orbit.

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00:05:40,246 --> 00:05:43,706

They will go further and
further to the universe.

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00:05:44,306 --> 00:05:51,696

Because to go further we will need new
solutions, new materials, new spacecraft