



1
00:00:08,380 --> 00:00:14,660

The next members of the International Space Station crew include an astronaut who visited

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00:00:14,660 --> 00:00:20,250

there once on a shuttle mission, a cosmonaut with one long-duration flight to his credit,

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00:00:20,250 --> 00:00:26,390

and a first-time space flyer who will be the first Russian woman to ever visit this outpost.

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00:00:26,390 --> 00:00:33,390

US navy captain Barry Wilmore grew up in mount Juliet, Tennessee, a suburb of Nashville;

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00:00:33,390 --> 00:00:38,660

it's a place and time he remembers for great friends and a great school program that nurtured

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00:00:38,660 --> 00:00:40,070

his natural impulses.

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00:00:40,070 --> 00:00:46,210

...my parents, my mom specifically, told me that my first word was not "mama" or "daddy."

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00:00:46,210 --> 00:00:47,210

It was "why."

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00:00:47,210 --> 00:00:52,090

I've always, always been inquisitive and, you know, what's out there and how's that

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00:00:52,090 --> 00:00:56,700

work and, and those type of, those type of thoughts, have always been within me.

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00:00:56,700 --> 00:01:00,860

After high school in Mount Juliet Wilmore walked on to the football team at Tennessee

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00:01:00,860 --> 00:01:07,540
Technological University, despite being what he describes as slow, small and weak.

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00:01:07,540 --> 00:01:11,900
But his urge to know "why" kicked in, and he earned a bachelor's degree in electrical

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00:01:11,900 --> 00:01:17,850
engineering; then, what he calls a "patriotic tug" pulled him to the Navy.

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00:01:17,850 --> 00:01:22,369
After finishing flight school, and picking up the call sign "Butch," Wilmore made two

16
00:01:22,369 --> 00:01:27,659
deployments during operation desert storm, then went to the navy test pilot school, and

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00:01:27,659 --> 00:01:33,569
later earned two master's degrees-one in aviation systems from the University of Tennessee,

18
00:01:33,569 --> 00:01:40,030
the other in electrical engineering from TTU-before making two more overseas deployments.

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00:01:40,030 --> 00:01:45,289
Then he taught at the navy's and the air force's test pilot schools before being selected as

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00:01:45,289 --> 00:01:47,740
an astronaut in 2000.

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00:01:47,740 --> 00:01:51,999
Wilmore made his first spaceflight as the

pilot on a space shuttle mission that delivered

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00:01:51,999 --> 00:01:56,859

express logistics carriers and other parts
to the International Space Station in late

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00:01:56,859 --> 00:01:58,469

2009.

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00:01:58,469 --> 00:02:02,389

This mission gives him the chance to push
the boundaries of human knowledge...

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00:02:02,389 --> 00:02:06,990

...We do science and various things, hopefully
for the betterment of mankind.

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00:02:06,990 --> 00:02:12,400

That's why the station exists, so we can turn
around what we learn there and, and, and,

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00:02:12,400 --> 00:02:14,290

and use it here on earth.

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00:02:14,290 --> 00:02:19,160

That's our purpose, and to, to go and, and
have the opportunity to do that, like i said,

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00:02:19,160 --> 00:02:22,100

is, is very, very humbling...

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00:02:22,100 --> 00:02:27,530

Alexander Samokutyaev was born and raised
in Penza, southeast of Moscow.

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00:02:27,530 --> 00:02:32,650

As a boy he loved science and ice hockey,
but he had no real doubt about what he would

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00:02:32,650 --> 00:02:33,740

do with his life.

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00:02:33,740 --> 00:02:39,890

A lot of children, when you ask them who they want to be, sometimes it's hard for them to

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00:02:39,890 --> 00:02:40,890

answer.

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00:02:40,890 --> 00:02:44,890

As long as I remember myself, it was never a difficult question for me.

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00:02:44,890 --> 00:02:46,540

Who do you want to be?

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00:02:46,540 --> 00:02:49,990

I always knew I was going to be a pilot.

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00:02:49,990 --> 00:02:56,180

Maybe a little bit later, I realized I wanted to be a military pilot.

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00:02:56,180 --> 00:03:01,990

Samokutyaev made his first flight as a pilot at age 16; after high school he went to the

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00:03:01,990 --> 00:03:07,890

Chernigov Air Force Pilot School in Ukraine, graduating in 1992 and starting his career

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00:03:07,890 --> 00:03:09,770

in the Russian Air Force.

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00:03:09,770 --> 00:03:15,380

He graduated from the Gagarin Air Force Academy in 2000 and was assigned to the Gagarin Cosmonaut

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00:03:15,380 --> 00:03:20,280

Training Center as a division chief, before being selected to start cosmonaut training

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00:03:20,280 --> 00:03:22,940

himself in 2003.

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00:03:22,940 --> 00:03:28,390

He completed one spacewalk on his first flight, a 164-day mission to the international space

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00:03:28,390 --> 00:03:33,420

station as flight engineer on expeditions 27 and 28.

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00:03:33,420 --> 00:03:37,250

Since then, he retired from the Russian air force as a colonel, and has been studying

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00:03:37,250 --> 00:03:42,560

finance and economics at the Russian Government Service Academy, but he's eager to continue

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00:03:42,560 --> 00:03:48,790

the exploration of space:
...and with the prospect of flying to distant

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00:03:48,790 --> 00:03:54,130

planets, maybe out into the solar system, right now we're laying the foundation, the

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00:03:54,130 --> 00:04:00,970

steppingstone that we can do and can implement as part of the ISS project.

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00:04:00,970 --> 00:04:06,610

Elena Serova, the fourth Russian woman to go to space and the first since 1997, was

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00:04:06,610 --> 00:04:11,750

born in the far east of Russia, in a town called Voz-dviz-henka, where her father was

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00:04:11,750 --> 00:04:14,280

stationed with the soviet military.

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00:04:14,280 --> 00:04:19,440

There she learned to love the star-filled sky, and developed an appreciation for flight

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00:04:19,440 --> 00:04:22,190

on trips with her father to the airfield.

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00:04:22,190 --> 00:04:26,660

As a young student she was influenced by the writings of Konstantin Tsiolkovsky, the Russian

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00:04:26,660 --> 00:04:33,030

father of rocketry, and by the leading personalities of the early soviet space program.

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00:04:33,030 --> 00:04:41,270

When I was in school my first teacher told us about different achievements in cosmonautics

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00:04:41,270 --> 00:04:46,930

and I was very much impressed by those first flights, from Svetlana Savitskaya in particular,

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00:04:46,930 --> 00:04:51,680

who was the first woman performing a spacewalk.

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00:04:51,680 --> 00:04:54,890

She was an amazing individual.

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00:04:54,890 --> 00:04:59,510

Serova spent part of her teens in Germany when her father was transferred there, but

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00:04:59,510 --> 00:05:02,340

she returned to Moscow when it was time for college.

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00:05:02,340 --> 00:05:07,290

She pursued her interest in space and engineering at the Moscow Aviation Institute, graduating

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00:05:07,290 --> 00:05:12,210

from its aerospace department, and then going to work as a test engineer at the Rocket Space

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00:05:12,210 --> 00:05:17,460

Corporation Energia, while also earning a post-graduate degree in economics from the

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00:05:17,460 --> 00:05:20,670

Moscow academy of machinery and informatics.

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00:05:20,670 --> 00:05:25,700

She was selected for Russia's cosmonaut corps in 2006, and is eager for the opportunity

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00:05:25,700 --> 00:05:30,220

to go to space and improve life on Earth...

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00:05:30,220 --> 00:05:38,160

We don't do it for ourselves, we do it for others, for future generations, so that people