

COSMIC DIMENSIONS

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CENTI ASTRO-SPACE ACTIVITIES

Welcome to the fifth issue of Cosmic Dimensions. With summer coming I thought you might be interested in the Space Camps I offer. Look at SUMMER SPACE CAMPS. Also, I will be offering weekly free webinars. Take a look and I hope to see you. In this issue the following will be introduced:

- SAVE THE DATES - **FREE WEBINARS** - See dates and time below
- WHAT'S UP IN THE NIGHT SKY FOR MAY
- SUMMER SPACE CAMPS
- YOUR OPINION
- FAMOUS FEMALE ASTRONAUT
- SPACE PIC OF THE MONTH
- SPACE QUOTE of the MONTH
- ASTROSPACE JOKE of the MONTH
- INSPIRATIONAL QUOTE of the MONTH
- SPACE SPINOFFS

SAVE THE DATES - **FREE WEBINARS**

I will be hosting free webinars every Thursday during the month of May.

DATES: Thursdays, May 5th, 12th, 19th and 26th

TIME: 7:00 - 8:00 PM ET

TOPICS: ★ Networking ★ Learn about my courses, webinars and workshops.

★ Answer questions ★ Scheduling

★ **STEAM LUNAR / MARS SPACE CAMPS for
Summer and throughout the year**

RESERVATIONS ARE REQUIRED.

Schedule your spot by the day before each webinar by sending your name and email using the CONTACT page on our website <https://www.centiastro.space.com> or call us at 716 - 338 - 7596.

Once you have registered, a link will be sent to your email for you to log in.

WHAT'S UP IN THE NIGHT SKY FOR MAY

Night Sky Notebook <https://www.youtube.com/watch?v=uim132CoH9Q>

SUMMER SPACE CAMPS

The following camps will be presented live online and can be found on our website <https://www.centiastro.space.com> along with descriptions, registration and payment information.

STEAM SPACE CAMPS

(Although DATES & TIMES are listed below, they are not set in stone. Let us know your scheduling and what would work better for you. If we can work out the dates, we can adjust the schedule for you. These camps can be scheduled and offered anytime for groups including school classes during the school year, afterschool programs, during summer and / or school breaks. Contact us via email or phone to schedule your camp)

YOUR MISSION

LUNAR SPACE CAMP	MARS SPACE CAMP
STEAM - LUNAR SPACE CAMP (A) STEAM - LUNAR SPACE CAMP (B) STEAM - LUNAR SPACE CAMP (C) DATES: July 11, 13, 15, 18, 20, 22, 25, 27 TIME: CAMP (A): 9:30 AM EDT CAMP (B): 11:30 AM EDT CAMP (C): 1:30 PM EDT	STEAM - MARS SPACE CAMP (A) STEAM - MARS SPACE CAMP (B) STEAM - MARS SPACE CAMP (C) DATES: August 1, 3, 5, 8, 10, 12, 15, 17 TIME: CAMP (A): 9:30 AM EDT CAMP (B): 11:30 AM EDT CAMP (C): 1:30 PM EDT
TOPICS to be PRESENTED <ul style="list-style-type: none">■ Importance of Satellites■ Design a Lunar Mission & Goals■ Design a Lunar Mission Patch■ Suiting Up■ Design a Rocket to Launch - OpenRocket Sim■ Design a Spacecraft for Astronauts■ Crew Selection (Fitting in and Getting Along)■ Astronaut Training for the Lunar Trip■ Design and Build a Rover■ Robotic Arm■ Plants in Space■ Funding and Politics■ Space Law■ How does Space Exploration Help Humanity?■ Design and Build a Lunar Base	TOPICS to be PRESENTED <ul style="list-style-type: none">■ Importance of Satellites■ Design a Mars Mission & Goals■ Design a Mars Mission Patch■ Suiting Up■ Design a Rocket to Launch - OpenRocket Sim■ Design a Spacecraft for Astronauts■ Crew Selection (Fitting in and Getting Along)■ Astronaut Training for the Mars Trip■ Design and Build a Rover■ Robotic Arm■ Plants in Space■ Funding and Politics■ Space Law■ How does Space Exploration Help Humanity?■ Design and Build a Mars Base

YOUR OPINION

I need your opinion on something regarding when humans eventually go to Mars. There has been much discussion on making Mars habitable for humans to live there. In the beginning humans will live in structures that will be designed for living for long periods of time. We will have to live off the land so to speak, but many scientists believe we can make Mars more earthlike as an environment. They believe that Mars could be terraformed, so we won't have to be protected with spacesuits or radiation shields. My question is this:

Do you think we should change the Martian environment through terraforming, or should we just leave it alone? I have my opinion, but what is yours?

SEND ME AN EMAIL with YOUR THOUGHTS and OPINION(S)

FAMOUS FEMALE ASTRONAUT

Soviet cosmonaut Valentina Tereshkova was born in the Yaroslavl Region of Russia on March 6, 1937. She was the second born of three children. Her father was a tractor driver and her mother worked in a textile plant. Valentina began school in 1945 at the age of eight. In 1953, she left school and began working. She continued her education by correspondence courses.

Valentina became interested in parachute jumping at an early age. It was her expertise in parachute jumping that led to her selection as a cosmonaut. Tereshkova was a textile-factory assembly worker and an amateur parachutist when she was recruited into the cosmonaut program. Under the direction of Soviet premier Nikita Khrushchev, four women were selected to be trained for a special woman-in-space program. Of the four women selected, only Valentina Tereshkova completed a space mission.

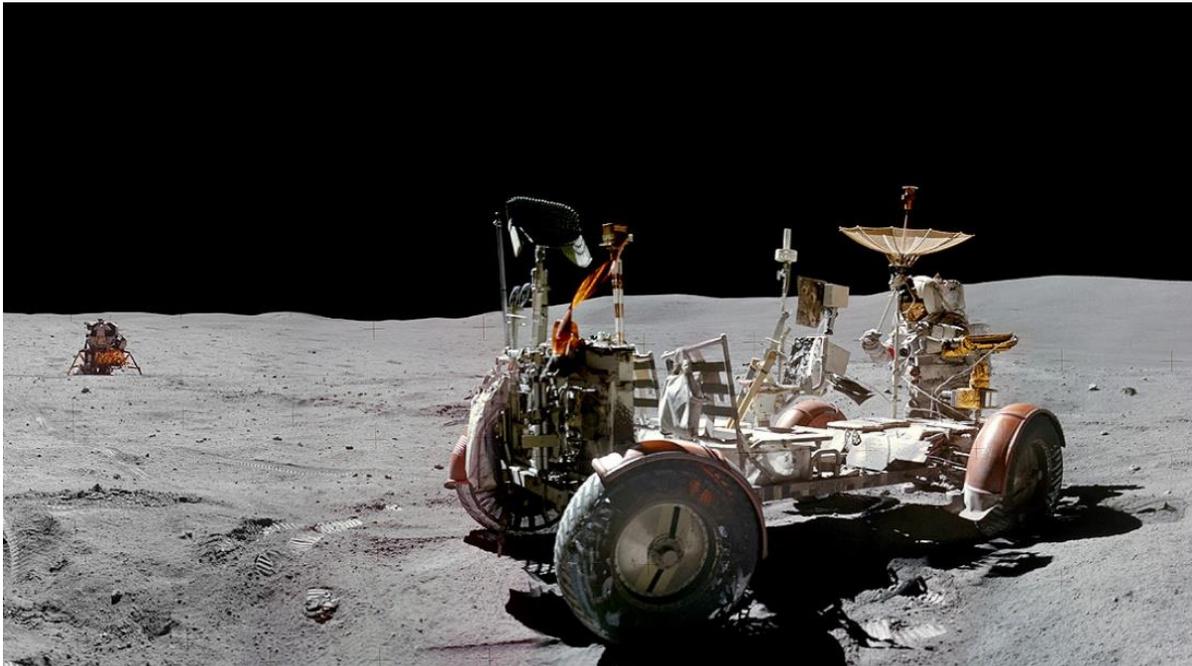


Tereshkova was launched aboard Vostok 6 on June 16, 1963 and became the first woman to fly in space. During the 70.8 hour flight, Vostok 6 made 48 orbits of Earth. Upon completion of her mission, Tereshkova was honored with the title Hero of the Soviet Union. She never flew again, but she did become a spokesperson for the Soviet Union. While fulfilling this role, she received the United Nations Gold Medal of Peace.

On November 3, 1963, Tereshkova married astronaut Andrian Nikolayev. Their first child, a daughter named Elena, was a subject of medical interest because she was the first child born to parents who had both been exposed to space. Elena later went on to become a medical doctor

Source: NASA Star Child

SPACE PIC OF THE MONTH



Apollo 16 Moon Panorama

Image Credit: [Apollo 16](#), [NASA](#); Panorama Assembly: [Mike Constantine](#)

SPACE SPINOFFS

Space exploration has many benefits that people aren't aware of, but here are a couple of things worth noting.

Weightless "Weight"-Lifting Builds Muscle on Earth

Originally published in 2018

NASA Technology

NASA astronaut Shannon Lucid spent hundreds of hours exercising during her 188-day stay on the Russian space station Mir in 1996. Although it was her least favorite part of living on Mir ("It was just downright hard," she wrote later), toward the end of her mission she felt she needed even more than the daily Russian protocols she was following. She started running extra kilometers, attached to one of the station's two treadmills with bungee cords. To read more click on the link: https://spinoff.nasa.gov/Spinoff2018/hm_4.html

A Closer Look at Quality Control

Originally published in 2003

Spectrometers, which are durable, lightweight, and compact instruments, are a requirement for NASA deep space science missions, especially as NASA strives to conduct these missions with smaller spacecraft. NASA's Jet Propulsion Laboratory (JPL) awarded the Brimrose Corporation of America a Small Business Innovation Research (SBIR) contract to develop a compact, rugged, near-infrared spectrometer for possible future missions. To read more click on the link: https://spinoff.nasa.gov/spinoff2003/ip_7.html

Why did the star get arrested? *Because it was a shooting star!*

"Today I will move towards the stars and tomorrow will be moving forward to galaxies and there is no such force in this entire universe that can stop us." -- *James P. Hogan*

"I can't change the direction of the wind, but I can adjust my sails to always reach my destination." -- *Jimmy Dean*

CONTACT

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