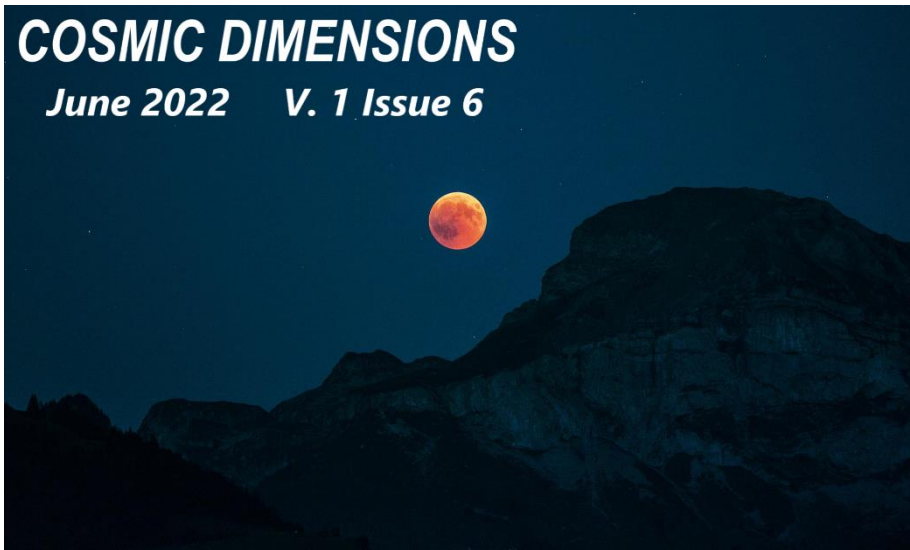


COSMIC DIMENSIONS

June 2022 V. 1 Issue 6



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CENTI ASTRO-SPACE ACTIVITIES

Welcome to the sixth issue of Cosmic Dimensions. With summer coming I thought you might be interested in the Space Camps I offer. This was included in last month's issue, but it is included again in this issue. Also, I will be offering weekly free webinars through June. Look below for the dates and times. 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 JUNE
- SUMMER SPACE CAMPS
- YOUR OPINION
- FAMOUS FEMALE ASTRONAUT
- SPACE PIC OF THE MONTH
- TOTAL LUNAR ECLIPSE MAY 2022
- ESTES ROCKETS
- SPACE SPINOFFS
- ASTROSPACE JOKE of the MONTH
- SPACE QUOTE of the MONTH
- INSPIRATIONAL QUOTE of the MONTH

SAVE THE DATES - **FREE WEBINARS**

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

DATES: Thursdays, June 9th, 16th, 23rd and 30th

TIME: 7:00 - 8:00 PM ET

TOPICS: ★ Networking ★ Learn about courses, webinars & workshops I offer.
★ Trivia ★ Hands-on activity ★ 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.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 JUNE

Night Sky Notebook <https://www.youtube.com/watch?v=p3MJ2elqL90>

SUMMER SPACE CAMPS

The following camps will be presented live online and can be found on our website <https://www.centiastrospace.com> along with descriptions, registration and payment information. If you have any problems with registration and payments, please let me know.

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

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

TOPICS to be PRESENTED

- Importance of Satellites
- Design a Lunar Mission & Goals
- Design a Lunar Mission Patch
- Suiting Up
- Design a Rocket to Launch
- 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

MARS SPACE CAMP

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

- Importance of Satellites
- Design a Mars Mission & Goals
- Design a Mars Mission Patch
- Suiting Up
- Design a Rocket to Launch
- 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 with humans landing on the moon. There are conspiracy theorists who say we never went to the moon, and it was staged.

Do you think the moon landing was staged?

I have my opinion, but what is yours?

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

FAMOUS FEMALE ASTRONAUT

Mae Carol Jemison (born October 17, 1956) is an American [engineer](#), [physician](#), and former [NASA](#) astronaut. She became the first [black](#) woman to travel into space when she served as a [mission specialist](#) aboard the [Space Shuttle Endeavour](#). Jemison joined NASA's [astronaut corps in 1987](#) and was selected to serve for the [STS-47](#) mission, during which she orbited the Earth for nearly eight days on September 12–20, 1992.



Born in Alabama and raised in Chicago, Jemison graduated from [Stanford University](#) with degrees in [chemical engineering](#) as well as [African](#) and [African-American studies](#). She then earned her medical degree from [Cornell University](#). Jemison was a doctor for the [Peace Corps](#) in [Liberia](#) and [Sierra Leone](#) from 1983 until 1985 and worked as a [general practitioner](#). In pursuit of becoming an astronaut, she applied to NASA.

Jemison left NASA in 1993 and founded a technology research company. She later formed a non-profit educational foundation and through the foundation is the principal of the [100 Year Starship](#) project funded by [DARPA](#). Jemison also wrote several books for children and appeared on television several times, including in [a 1993 episode](#) of [Star Trek: The Next Generation](#). She holds several [honorary doctorates](#) and has been inducted into the [National Women's Hall of Fame](#) and the [International Space Hall of Fame](#).

Source: [Wikipedia](#)

SPACE PIC OF THE MONTH



A Digital Lunar Eclipse from May 15 & 16, 2022
Image Credit & [Copyright](#): [Michael Cain](#)

Explanation: Recorded on May 15/16 this sequence of exposures follows the Full Moon during a total lunar eclipse as it arcs above treetops in the clearing skies of central Florida. A frame taken every 5 minutes by a digital camera shows the progression of the eclipse over three hours. The bright lunar disk grows dark and red as it [glides through planet Earth's shadow](#). In fact, counting the central frames in the sequence measures the roughly 90 minute duration of the total phase of this eclipse. Around 270 BC, the Greek astronomer [Aristarchus](#) also measured the duration of total lunar eclipses, using geometry.

TIMELAPSE VIDEO of the May 15-16, 2022 TOTAL LUNAR ECLIPSE, EDT

If you missed the total lunar eclipse watch a time-lapse video. Click on the link to view.

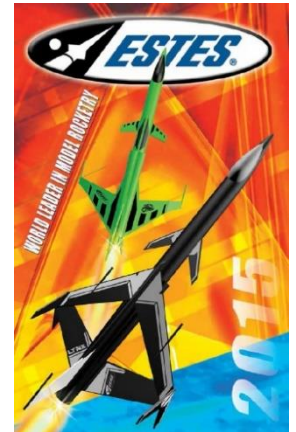
<https://www.youtube.com/watch?v=weIF6dcyhkl>

The Moon moves right to left, passing through the penumbra and umbra, leaving in its wake an eclipse diagram with the times at various stages of the eclipse.

ESTES ROCKETS

Early in May I had the pleasure of having a video meeting with **Nicole Sjoblom**, Education & Outreach Specialist of ESTES Industries. We discussed possible ways of how I could partner through my business with ESTES and to include some of the rocket kits with my courses. Especially the LIFT OFF and EXPLORING SPACE courses.

Estes Industries was founded in 1958 by Vern and Gleda Estes and found a home soon after in Penrose, Colorado (the model rocket capital of the world). Through more than six decades of hard work and innovation, Estes has grown to be the leading manufacturer of model rocket engines, kits and accessories. As of April 2018, Estes Industries is once again a family-run business, committed to enabling safe, successful flights for customers everywhere, from their backyards and school yards to worlds beyond. The ESTES team is proud to be part of the Estes legacy, as rocketry has always been part of its history as engineers, rocketeers, and designers.



2015 CATALOG

Estes continues to ignite the imagination of each new generation. For more information click on the link to their website < <https://estesrockets.com/> >. Nicole also sent me a link to a training video entitled, *Launch Rocketry Into Your Classroom: An Estes Education Training*. To view it click on the link. <https://www.youtube.com/watch?v=MRWHR2u6WgQ&t=5s>

I am looking forward to having a lasting relationship as I start including various rocket kits into my programming.

SPACE SPINOFFS

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

- 'Positive Energy' Captures Contaminants

Aquaspace filters still build on research for Apollo, space shuttle water purification

➤ Originally published 01/24/2022

The carbon-based compound in Aquaspace water filters started out more than 35 years ago in Mike Pedersen's basement, with a stack of NASA research. Now the filters have appeared in the White House, Environmental Protection Agency (EPA) facilities, and every drinking fountain in the D.C. Public Schools system, in addition to homes across the country. To read more click on the link:

<https://spinoff.nasa.gov/%E2%80%98Positive-Energy%E2%80%99-Captures-Contaminants>

- **For Work or Play, Comfort All Day**

Two NASA technologies converge for more comfortable chairs

➤ Originally published 12/15/2020

A new line of gaming chairs combines two NASA technologies to keep users comfortable during even the longest video game marathons.

Raynor Group, a major manufacturer of office furniture, has long incorporated Tempur-Pedic memory foam and Outlast cooling technology into office chairs, but the company is now extending the technology into other offerings. To read more click on the link: <https://spinoff.nasa.gov/gaming-chair-materials>

What's a lightyear? It's like a regular year... with fewer calories.

“If our solar system is not unusual, then there are so many planets in the universe that, for example, they outnumber the sum of all sounds and words ever uttered by every human who has ever lived. To declare that Earth must be the only planet in the universe with life would be inexcusably bigheaded of us.” -- *Neil deGrasse Tyson, Astrophysicist*

“Life isn't about getting and having, it's about giving and being.” -- *Kevin Kruse*

CONTACT

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