



# CENTI ASTRO-SPACE ACTIVITIES

Christopher S. Centi, "C the Rocket Man"

91 East Main Street

Brocton, New York 14716

Business Mobile: (716) 338 - 7596

E-mails: [centiastropace@gmail.com](mailto:centiastropace@gmail.com) [centiastropace@centiastropace.com](mailto:centiastropace@centiastropace.com)

Web Site: [www.centiastropace.com](http://www.centiastropace.com)

## MISSION STATEMENT

***"Instill, Motivate and Empower individuals of all ages with an appreciation, awareness and understanding of science using Astronomy, Space Exploration and Art"***

***Join in for an out-of-this-world learning experience. CENTI ASTRO-SPACE ACTIVITIES is the ultimate destination for space enthusiasts. Come learn, explore and have fun in the final frontier.***

## CENTI ASTRO ADVENTURES SPACE ACADEMY



- An educational platform.
  - Offers hands-on Astronomy & Space Exploration courses and webinars.
  - Aligned with **STEAM** - **S**cience, **T**echnology, **E**ngineering, **A**rt and **M**ath.
  - Available virtually, either live or on-demand and in person.
  - Courses and webinars include supplemental videos, hands-on activities and more.
- **Live Courses** run for **1 to 10 session modules (30 - 60 minutes in length)** and webinars (short courses) are **one** session.
  - **On-demand** courses are set up as lessons that can range from one to several minutes and can be done at the leisure of the student.
  - Ongoing **live** multiple courses include "Cosmic Tidbits" and "Space Science Spinoffs".
  - Courses and webinars develop positive attitudes about science and non-science subjects.
  - Visit the **COURSES & WEBINARS** pages on our website for a list of courses available!
  - Courses can be taken as a group or 1 on 1.
  - Register for webinars using the **REGISTRATION** page on our website.
  - Groups and organizations can request courses which would be **tailored** to the **needs** of the facility.

**RESEARCH SHOWS** that when individuals exercise both their hands and minds, they are also developing critical problem-solving skills that benefit them for life.

***"There is No Limit to what Humans Can Do! We Went to the Moon, We Will Go Again, Then Onward to Mars and Beyond, In Our Quest to Reach for the Stars"***

***"Being able to have Christopher "C the Rocket Man" Centi talk with my students was a great experience. The students were able to ask questions and learn about space from a professional which was the highlight of the unit."***

***Patrick Goff, 8<sup>th</sup> Grade Science Teacher  
Beumont Middle School***

# TEN SPACE & SCIENCE THEMED COURSES

## Designated in Green Are 1 Session Courses

### 1. SURFIN' and ROCKIN' 'ROUND the SUN

- OUR WILD, SOMETIMES CRAZY SOLAR SYSTEM
- OUR WILD, SOMETIMES CRAZY SOLAR SYSTEM
- HOW and WHY PLANETS ORBIT the SUN
- HOW and WHY PLANETS ORBIT the SUN
- HOW the SUN and ITS FAMILY FORMED
- HOW the SUN and ITS FAMILY FORMED
- SOLAR SYSTEM EXPLORATION
- SOLAR SYSTEM EXPLORATION
- SOLAR SYSTEM: WONDERS of DIVERSITY and MYSTERY
- SOLAR SYSTEM: WONDERS of DIVERSITY and MYSTERY
- WATER on EARTH and ELSEWHERE

### 2. LUNAR MYSTERIES

- EXPLORING SOLAR ECLIPSE WONDERS
- EXPLORING LUNAR ECLIPSE WONDERS
- DEEP DIVE INTO SOLAR and LUNAR ECLIPSES
- THE MOON and SCIENCE FICTION
- LUNAR MYTHS and LEGENDS
- FIRST STEPS: HUMAN FOOTPRINTS on the MOON
- FIRST STEPS: HUMAN FOOTPRINTS on the MOON
- ARTEMIS: WE ARE GOING BACK to the MOON
- ARTEMIS: WE ARE GOING BACK to the MOON
- LUNAR MYSTERIES
- LUNAR MYSTERIES
- LUNAR MISSION ADVENTURE CAMP

### 3. DESTINATION MARS

- MARS and SCIENCE FICTION
- MARTIAN MYTHS and LEGENDS
- MARTIAN MYSTERIES UNRAVELLED with Robots
- MARTIAN MYSTERIES UNRAVELLED with Robots
- MARSBOUND: HUMAN PRESENCE
- MARS EXPLORATION ADVENTURE CAMP

### 4. LIFT OFF!

- ROCKETS and How They Work
- STORY of ROCKETS and How They Work
- ROCKETRY: Current and Future

### 5. EXPLORIN' SPACE 'n BEYOND

- RACING to SPACE
- RACING to SPACE
- SPACE STATIONS, SHUTTLES and MORE!
- SPACE STATIONS, SHUTTLES and MORE!

### 5. EXPLORIN' SPACE 'n BEYOND Continued

- LIVING and WORKING in SPACE: INTERNATIONAL SPACE STATION (ISS)
- LIVING and WORKING in SPACE: INTERNATIONAL SPACE STATION (ISS)
- EXPLORING SPACE: NEAR & FAR
- SPACE HAZZARDS
- COSMIC TIDBITS (WEEKLY)
  - SOLAR SYSTEM FUNFACTS
  - LUNAR FUNFACTS
  - MARTIAN FUNFACTS
  - ROCKETRY FUNFACTS
  - SPACE EXPLORATION FUNFACTS
  - ASTRONOMICAL FUNFACTS
  - EXOPLANET FUNFACTS
  - E.T. FUNFACTS
- SPACE SCIENCE SPINOFFS (WEEKLY)

### 6. CRUISIN' THE COSMOS

- COOL WONDERS of the UNIVERSE
- COOL WONDERS of the UNIVERSE
- STARS and GALAXIES
- STARS and GALAXIES
- BLACK HOLES, WHITEHOLES and OTHER WEIRD THINGS
- INTRO to ASTRONOMY
- CULTURAL DIFFERENCES in ASTRONOMY
- CONSTELLATIONS: Pictures in the Night Sky
- CONSTELLATIONS: Pictures in the Night Sky

### 7. EXOPLANETS 'n the SEARCH for LIFE ELSEWHERE

- EXOPLANETS: WORLDS BEYOND
- EXOPLANETS: WORLDS BEYOND
- A VARIETY of EXOPLANETS
- A VARIETY of EXOPLANETS
- ALONE in the UNIVERSE??
- ALONE in the UNIVERSE??
- WHAT WILL HAPPEN WHEN LIFE IS FOUND ELSEWHERE?
- ASTROBIOLOGY THROUGH COMICS

### 8. RISING STARGIRLS

- RISING STARGIRLS

### 9. S.T.E.A.M. FUN ACTIVITIES

- Hands-On Activities & Experiments 1, 2 & 3

### 10. UAP / UFO MYSTERIES

- UFOS UNVEILED
- PUZZLING UAP / UFO EVENTS

# WORKSHOPS

Workshops are available for **10 to 20 Session Modules (each 60 to 90 Minutes in length)**. They are available for organizations and educational facilities. These are longer versions of the courses or various components of courses. Contact us for more details as this would be developed specially for your needs. Call, email or send a request through the contact form on our website. Each of the workshops include a workbook with all the information that will be covered including hands-on activities, videos, roll playing, theater exercises, journaling and kinesthetic activities.

• **Courses & Webinars** are available for a variety of settings, listed below:

- **General Public**
- **Schools and Home Schoolers**
- **Continuing Education Programs**
- **Kids College**
- **After School Programs**
- **Youth Groups / Camps**
- **Summer / Winter Camps**
- **Recreation & Playground Programs**
- **Boys & Girls Clubs**
- **YMCA / YWCA Programs**
- **Scout Groups**
- **Libraries**
- **Correctional Facilities**
- **Community Events**
- **Museums**
- **Science Centers**
- **Observatories**
- **Planetariums**

## CASA UNCORKED and on TAP

### ▶ ▶ ▶ Space Science Program for Adults ◀ ◀ ◀

Children and teenagers aren't the only ones who can benefit from Space Science Education. Andy Newman, professor of Astronomy Education and Engagement at the Astrophysics Research Institute says, "Anyone who wants to learn should be able to, and anything we can do to make that happen is important."

Probably the biggest influence on children and teenagers is their family and relatives. So, if we can get them interested in science it may have an important impact on children to become excited about science.

Although outreach to adults has occurred in libraries, museums, schools and other places it was found that the adult market still hadn't been successfully tapped into. In the past few years new and interesting attempts have been made to create something more adult friendly. These have been highly successful.

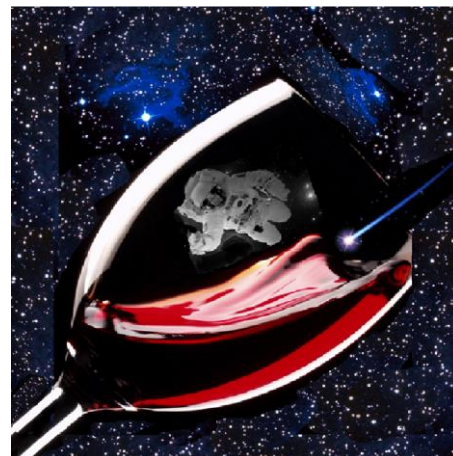
These new attempts to reach adults have emerged in several of the larger cities from New York City to Seattle and worldwide. One of the ways is through Science Cafes, which offer presentations on different areas of science. The unique aspect here is that they are offered at establishments that serve beer, cocktails and/or wine. Specifically, Astronomy and Space Exploration presentations, for adults, have become very popular within these establishments as well. The benefit of doing presentations within a bar or pub is because of the more relaxed and casual atmosphere where learning is fun and interactive.

Therefore, if it has been successful in bar and pub-settings, it would be equally successful for microbreweries and wineries.



**CASA UNCORKED and on TAP** offer mature audiences the chance to become involved with accessible and fun presentations in various areas of Astronomy and Space Exploration. Typically, they are **90 minutes** in length, presented by "**C the Rocket Man**". These presentations are interspersed with a take home activity which is either a painting of planets or something else galactic, hands-on activities, Space Science scavenger hunts & trivia and videos. Its uniqueness is that the presentations are done at **wineries** where the audience taste their favorite wines and in **microbreweries** over a bottle or glass of beer.

One might ask, "**Why offer Astronomy and Space Exploration at these establishments?**" As stated above, Astronomy and Space Exploration presentations, for adults, has become very popular within bars and pubs and have spread across the nation and worldwide. The atmosphere is more relaxed and conducive to learning while having fun. In the planetarium field a term is often used called "**edutainment**", which is a combination of education and entertainment to attract and enhance learning.



Another reason which many people don't realize is that NASA has been working with companies that produce and sell wine and beer. A wine glass has been developed that works in microgravity. As we venture further outside our home planet and humans begin settling other celestial bodies, they will want the comforts of home. Research is currently being done to learn the conditions and what is needed to manufacture these beverages elsewhere. Also, the space theme is common at many wineries and microbreweries across the globe. Many beers and wines have been named after planets and other celestial objects. Along with this labels for these wines and beers have been utilized.

## WHO IS "C the ROCKET MAN"?

Christopher (Chris) Centi, also known as "**C the Rocket Man**", is on a continuing mission to motivate and excite kids and adults about the cool wonders of science. He uses **Astronomy, Space Exploration** and **hands-on sensory interactions**. For over 38 years, Chris has presented entertaining, educational and empowering space science programs to diverse audiences ranging from ages 5 to 95.



Chris has also presented workshops and in-services for teachers, other professionals and parents. As a speaker, author and science advocate, Chris weaves his hands-on approach and interaction with audiences into a presentation encouraging an appreciation of the importance of science, its usefulness in everyday life and Outer Space as one of our new frontiers.

Chris is an Astronomy & Space Science Educator and CEO of Centi Astro-Space Activities (**CASA**). In 1985 he formed CASA to help improve science literacy. He was instrumental in developing and building the planetarium for the Lucile M. Wright Air Museum in Jamestown, NY. and served as Planetarium Director and Space Science Coordinator from November 2012 to December 2016.

***"I visited the planetarium exhibit when I was in elementary and it really excited my curiosity about space. . . . . There is so much left to explore and exhibits like this one can inspire future generations to be the next astro-enthusiasts."- Sophia C.***

***"I took my daughter to the planetarium exhibit when it was housed at the Lucille Wright Air Museum because I saw how curious my daughter was about space and our solar system. She enjoyed the experience very much . . . . . My daughter is still interested in science fields and looks to the night sky with great interest. I would recommend the programs to anyone who wants an accessible means to have a greater understanding of our solar system."- Laura S.***

Chris has many research interests which include studying exoplanets and the search for life elsewhere, Mars exploration, the psychological implications of long-term space travel, and the importance of diversity, inclusion, equity and equality in the sciences. He authored various articles and actively gives hands-on presentations to civic/social organizations. Chris is available to speak at various venues on the areas of his research.

Using the hands-on approach, Chris has taught various kids college courses in Astronomy and Space Science at Jamestown Community College, SUNY Fredonia and Penn State Behrend College. He has also appeared on TV advocating hands-on science with appearances on WKBW-TV's AM Buffalo in Buffalo, NY, WICU-TV's Evening News Eye on Education and WSEE News in Erie, PA and Cable 8 in Jamestown, NY.

**LET'S DISCUSS YOUR NEEDS!  
LET'S WORK TOGETHER!  
and ANSWER ANY QUESTIONS!**

*"Chris was such a help to my middle school students! He was able to answer all of their questions in great detail and with clear enthusiasm."*

*Marcy Hartzler, Middle School Teacher  
ZQuest Public Schools*



**CONTACT:**

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**YOU CAN ALSO FIND CASA ON SOCIAL MEDIA**



**"COSMIC CRUISIN'  
STARS 'n SPACE  
Monthly Free Newsletter**



**"CURIOUS About STEAM"**



SOURCE: Freepik

**"WORLDS BEYOND &  
ASTROBIOLOGY INSIGHTS"**



SOURCE: NASA

**THANK YOU FOR YOUR TIME!**