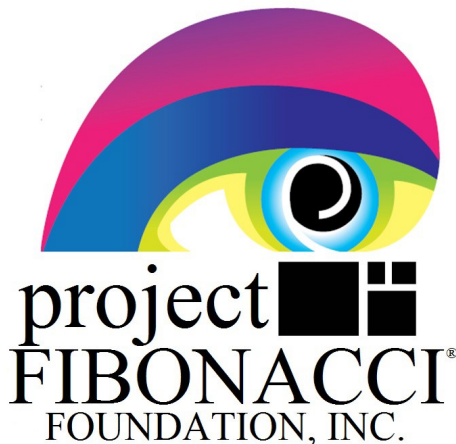




4<sup>TH</sup> ANNUAL

# PROJECT FIBONACCI<sup>®</sup> STEAM LEADERSHIP CONFERENCE SUMMARY



## OUR MISSION

To introduce our youth to a culture of interdisciplinary STEAM learning, teaching them to become creative, independent leaders of community resurgence.

## OUR VISION

Enriched STEAM Communities Driving a Modern Renaissance

# FULL STEAM AHEAD!

# FULL STEAM AHEAD!

## OUR STEAM SCHOLARS

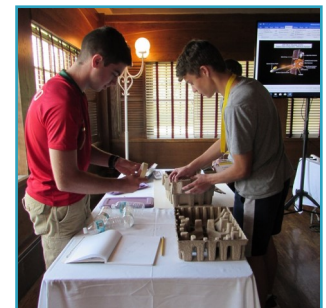
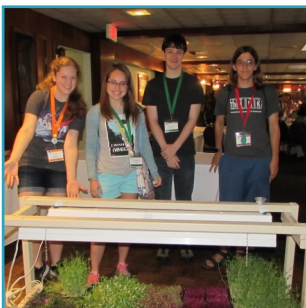
Students from across NYS attended the fourth annual Project Fibonacci® STEAM Leadership Conference based in Rome, NY. Our “STEAM Scholars” were nominated by their educators, mentors and peers based on their academic excellence and their interest becoming a leader in STEAM!



## COLONIZING & EXPLORING MARS

The overarching question of the 2019 STEAM Leadership Conference was “How could Mars, our planetary neighbor believed to possess the conditions to support life, be a suitable alternative to Earth as a second home for humans?”

STEAM Scholars worked in proposal teams that participated in workshops, lectures and team development activities to answer the big questions regarding the colonization and exploration of Mars. Working closely with Mars experts, STEAM professionals and local industry leaders, scholars were able to gain a better understanding of what the future on Mars could look like while thinking outside of the box at alternative methods.



# 2019 DEMOGRAPHICS

58%  
NEW SCHOLARS

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64%  
ONEIDA COUNTY

15%  
CAPITAL REGION

11%  
HERKIMER COUNTY

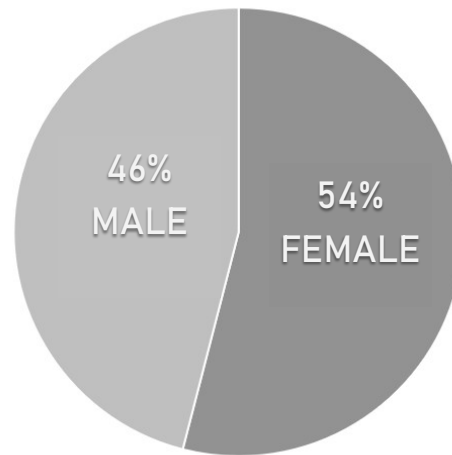
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35+  
SCHOOLS SENT  
THEIR STUDENTS  
TO ATTEND

---

40+  
BUSINESSES,  
SCHOOLS & LOCAL  
ORGANIZATIONS  
CONTRIBUTED  
TOWARD TUITION  
FUNDING

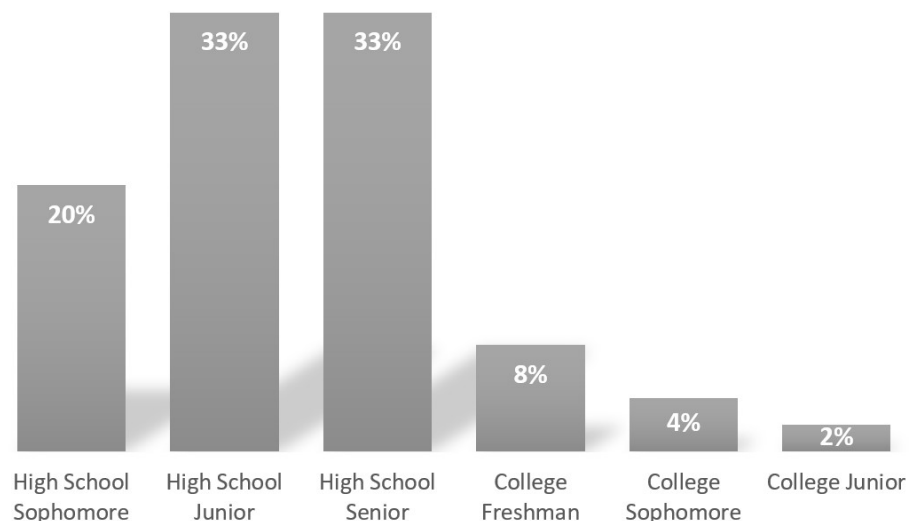
## GENDER



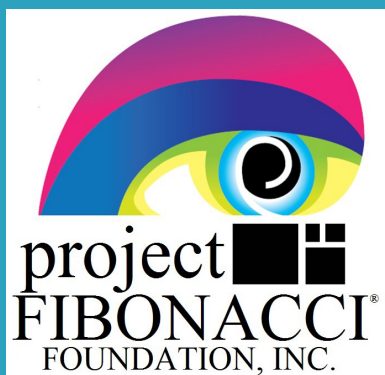
95%

OF PARTICIPANTS HAD THEIR TUITIONS PAID FOR IN WHOLE OR IN PART BY THEIR SCHOOLS & THROUGH SPONSORING ORGANIZATIONS

## GRADE LEVEL



# SCHOLAR FEEDBACK



**85%**  
STEAM SCHOLARS  
WOULD HIGHLY  
RECOMMEND THE  
CONFERENCE TO  
THEIR PEERS

---

**90%**  
WOULD LIKE TO  
RETURN FOR THE  
2019 CONFERENCE

---

## WHAT DID YOU LIKE MOST?

“MEETING NEW PEOPLE”

“THE PRESENTATIONS & SPEAKERS”

“THE VARIOUS HANDS-ON WORKSHOPS”

“MAKING FRIENDS THAT WILL LAST A LIFETIME!”



“The bonds that I have made with all of the people who are as interested in STEAM as I am, as well as the staff who helped me to further my education in each of the areas of STEAM.”

“I really enjoyed the workshops. Being able to interact and make friends with other kids while still productively learning something was very nice.”

“The skills I have taken away from this week I will use for the rest of my life and career. This conference has truly opened my eyes to the world.”

“This conference has increased my interests in science and technology and I have stronger confidence in my preferred major.”

“Thank you so much for a great time! Full STEAM Ahead!”



# SPEAKERS SERIES



## DR. ROBERT ZUBRIN

---

AUTHOR, AEROSPACE ENGINEER & PRESIDENT OF PIONEER ASTRONAUTICS

Dr. Robert Zubrin presented his Mars expertise through two keynote speaking events, “The Case for Space” & “Mars Direct-Humans to the Red Planet Within a Decade”

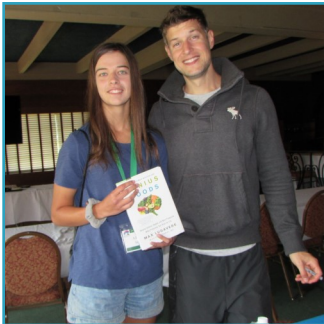


## DR. APRILLE ERICSSON

---

FIRST FEMALE RECIPIENT OF A PH.D. IN MECHANICAL ENGINEER AEROSPACE & STEM TRAILBLAZER

Dr. Aprille Ericsson shared her experience working at the NASA Goddard Space Flight Center through her keynote speech, “Let’s Go to Mars!”



## MAX LUGAVERE

---

AUTHOR OF BESTSELLING BOOK “GENIUS FOODS”, TV PERSONALITY, HEALTH AND SCIENCE JOURNALIST & MUSICIAN

Max Lugavere informed our STEAM Scholars of the “Genius Foods in Space: The Essential Foods for Optimal Brain Function”



## JOHN URSCHEL

---

FORMER BALTIMORE RAVENS NFL PLAYER, MATHEMATICIAN & AUTHOR OF “MIND AND MATTER: A LIFE IN MATH AND FOOTBALL”

John Urschel presented a workshop on the Hexagon Theorem and enlightened our audience on the “Beauty of Mathematics”



## SCIENCE BOB PFLUGFELDER

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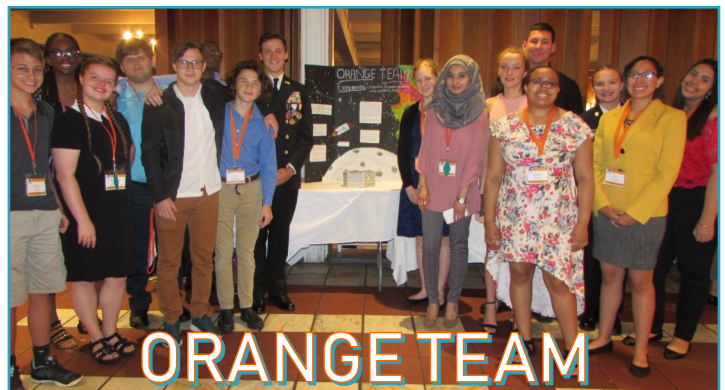
TEACHER, MAKER, AUTHOR & SCIENCE PRESENTER AS SEEN ON THE JIMMY KIMMEL SHOW, NICKELODEON AND THE DR. OZ SHOW

Science Bob recruited the assistance of our STEAM Scholars to participate in experiments during his presentation “The Science of Being a Maker”

# MARS STEAM FAIR

## FINAL PROPOSAL TO MARS

Teams prepared all week for their final Proposal to Mars working closely with their facilitators, workshop presenters and Mars experts. Teams were required to submit a video on their proposal as well as a poster session presented on the final day



## THE 2019 WINNING TEAM



# HANDS-ON LEARNING

## MARS WORKSHOPS

- Putting Humans on Mars
- Antarctica: The Great Alone
- Soviet Race for the Moon
- Mars Labs
- Funding a Mission to Mars
- Architecture Beyond Earth
- How to Pick a Landing Site
- Lessons Learned & Lessons Lost
- Indoor Growing
- Colonizing Mars Through 8 Wellness Dimensions
- Ethical Concerns in Space Exploration

## STEAM WORKSHOPS

- All the World's a Stage
- Using Rhythmic Engagement
- Science of the Paranormal
- Spatial Reasoning
- Fibonacci in Motion
- The Science of Shakespeare
- Technology in Arts
- The Beat of Colonization
- Breakout EDU- The Great Mars Escape
- Fire Forensics
- Paper Quilling
- The Art of Science Communication
- Sound Sculpting



Yoga provided by Just Breathe Yoga Studio



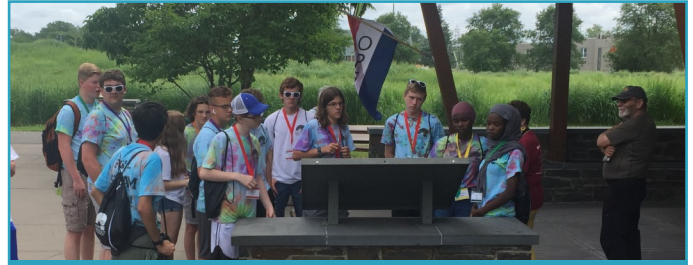
Tai Chi provided by Bailey's Karate Schools

# EXPLORING STEAM IN CNY

## OFF-SITE TOURS



Fort Rickey Discovery Zoo– Rome, NY



Fort Stanwix– Rome, NY



MVCC FABLab– Utica, NY



MWPAI– Utica, NY

## COLLEGE & CAREER FAIR

STEAM Scholars visited exhibitors from across the state at our annual College & Career fair, furthering their education on the endless possibilities our area has to offer in academic and professional STEAM fields.

### EXHIBITORS INCLUDED:

- New York State Police
- Assured Information Security (AIS)
- Cyromech, Inc.
- Jervis Library
- Le Moyne College
- Utica College
- Munson Williams Proctor Art Institute
- Nazareth College
- SUNY Fulton
- TACNY
- ANDRO Computational Solutions, LLC
- Mohawk Valley Community College





# ADDITIONAL STEAM OFFERINGS

## INNOVATION CAMPS

The Project Fibonacci® Foundation provides year-round Innovation Camps from drones to coding! Learning from recognized experts and professionals working in various technology fields, teams of students and their teachers add to their knowledge base and hone their skills during single-and multi-day camps.

For more information, contact Maria Smith: [MSmith@ProjectFibonacci.org](mailto:MSmith@ProjectFibonacci.org)



## 2020 STEAM CONFERENCE

The 5th Annual Project Fibonacci® STEAM Leadership Conference is scheduled 2020 summer! Stay tuned for specific dates. Join students from across the state for the week-long immersive event full of hands-on, interactive learning that is team based. Rising sophomores- college juniors that are interested in STEAM are invited to attend!

NOMINATIONS WILL BE ACCEPTED FALL 2019

## 2020 CONFERENCE THEME: CLIMATE CHANGE & THE EARTH'S OCEANS



# ADDITIONAL STEAM OFFERINGS

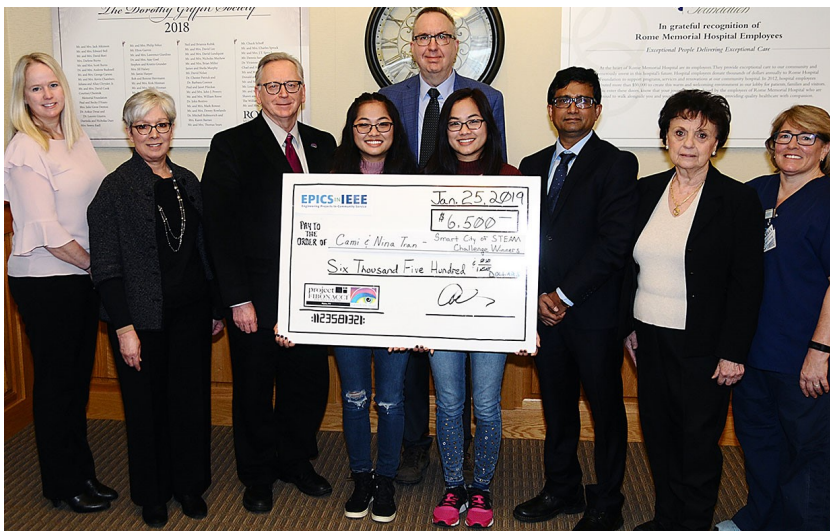
## 2019 EPICS IN IEEE CHALLENGE

The Project Fibonacci® Foundation, Inc. in coordination with the IEEE Engineering Projects in Community Service (EPICS), is hosting a unique STEAM Challenge. Current 2019 STEAM Scholars, past scholars and students who have participated in previous Project Fibonacci® programs are invited to submit proposals that can have a positive impact on our communities for their chance of up to \$10,000 in project development funding!

# EPICS IN IEEE

## Engineering Projects In Community Service

## MEET THE WINNERS OF THE 2018 EPICS IN IEEE CHALLENGE



### 1<sup>ST</sup> PLACE: NINA & CAMI

3D PRINTED LYMPHEDEMA SHOE  
Earned \$6,500 in Funding & \$4,000  
in College Scholarships!



### 2<sup>ND</sup> PLACE: NATHAN & ERIC

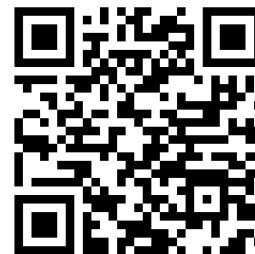
ROBOTIC AUTO TUNER  
Earned \$3,500 in Funding!

# GET INVOLVED

## COMMUNITY CHOICE AWARDS

The Project Fibonacci® Foundation is a finalist in the Copper City Category of the Community Choice Awards. Help us earn funding for future STEAM events. Voting ends August 31<sup>st</sup> so vote today!

<https://foundationhoc.org/copper-city/>



## FOLLOW US

Follow us on social media for updates, upcoming events and more!



@PROJECTFIBONACCI

## LISTEN

Tune in every Monday to the Project Fibonacci® Foundation podcast, STEAM-Cast: Where STEM & The Arts Collide!



## DONATE

Donating is the greatest way you can impact the Project Fibonacci® Foundation and ensure its continued success and growth. The Project Fibonacci® Foundation is a 501 (c)(3) charitable organization. All donations are greatly appreciated and fully tax-deductible.

[PayPal.com/US/Fundraiser/Charity/3493679](https://PayPal.com/US/Fundraiser/Charity/3493679)

SPONSORSHIP OPPORTUNITIES ARE ALSO AVAILABLE

## VOLUNTEER

We rely on our extensive volunteer network to help provide a safe and creative learning environment for our STEAM Scholars. Visit [ProjectFibonacci.org](http://ProjectFibonacci.org) for more information

## NOMINATE

Nomination opens Fall 2019 for the 5<sup>th</sup> Annual Project Fibonacci® STEAM Leadership Conference! Nominate a student aged 15-20 to attend at [ProjectFibonacci.org](http://ProjectFibonacci.org)

# IT TAKES A VILLAGE TO RAISE A STEAM COMMUNITY



THE BABINEC FOUNDATION, INC.

FRONT OF THE CLASS FOUNDATION

THE HAZEN B. HINMAN FOUNDATION

DR. MITCHELL WILBERT

DONALD W. WASHBURN

THE BERNHARD FAMILY SCHOLARSHIP

GRACE KLUTSCHKOWSKI

THE SHIRLEY W. & WILLIAM L. GRIFFIN CHARITABLE FOUNDATION