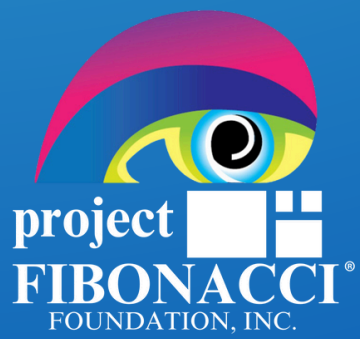



AUGUST 4-10





2024 FINAL PROGRAM

**6th Annual
Project Fibonacci® STEAM
Leadership Conference**



info@projectfibonacci.org 

ProjectFibonacci.org 

PO Box 424, Rome, NY 13442-0424 

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ABOUT US

The Project Fibonacci® Foundation, Inc. is a nonprofit 501(c)(3) charitable organization that provides a series of immersive learning programs on STEAM topics in cooperation with local schools, businesses and non-profit organizations.

Our year-round initiative is focused on STEAM leadership education with an entrepreneurial focus to engage scientific and artistic critical thinkers in working together to solve complex STEM problems impacting society.

Our program is further intended to grow the STEM workforce in a new way--by tapping into artistic creativity to spur technological innovation, catalyze workforce preparedness, and contribute to economic development on a broad scale.

We use the ARTS to grow tomorrow's STEM workforce, to cultivate a mindset of limitless possibilities, and guide the development of an inclusive cohort of diverse critical thinkers to tackle complex STEM problems, address future socio-technological challenges, and act as an AGENT to promote the creation of ecosystems for community revitalization and economic prosperity.

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



MESSAGE FROM THE CHAIRPERSONS

Dear Future STEAM Leaders,

Welcome to the 6th Annual Project Fibonacci® STEAM Leadership Conference! We are thrilled to have you join us for an exciting exploration of "AI, The Smart Machine and the Human Factor."

As we delve into the fascinating world of artificial intelligence, we invite you to sharpen your critical thinking skills. In a world where technology is rapidly evolving, it's crucial to question, analyze, and evaluate information with discernment. Remember the words of E.R. Beadle: "Half of the work that is done in the world is to make things appear what they are not." This quote reminds us of the importance of looking beyond surface appearances and developing a deeper understanding of the complex relationship between AI and humanity.

Throughout this conference, you'll have the opportunity to engage in hands-on workshops, learn from experts, and collaborate with peers who share your passion for STEAM. The "Fuel your Future Fair" is a fantastic opportunity for you to explore potential career paths. For some, this may be a first experience in networking, as well as an opportunity to develop professional relationships.

We encourage you to embrace this unique chance to enhance your problem-solving abilities, leadership skills, and understanding of the intricate balance between smart machines and the irreplaceable human factor.

As you embark on this journey, remember that you are the future innovators, leaders, and problem-solvers in the STEAM fields. Your insights and creativity will shape the way we interact with AI and technology in the years to come.

We look forward to witnessing your growth, hearing your ideas, and seeing the connections you'll forge during this transformative experience.

We wish to extend our gratitude to the exceptional committee and team of dedicated individuals who have helped to make this conference possible. We want to thank our sponsors and supporters who are noted throughout this program.

Welcome aboard, and let the exploration begin!



Tamalin Martin
Tamalin Martin, Co-Chair



Bob Bojanek
Bob Bojanek, Co-Chair



Perplexity AI
...and a little help from Perplexity AI

THANK YOU TO OUR 'YOU OWN IT' SPONSOR



GRIFFIN CHARITABLE FOUNDATION

THE GRIFFIN CHARITABLE FOUNDATION'S MISSION IS
TO CELEBRATE THE LEGACY OF THE GRIFFIN FAMILY
BY ENHANCING THE QUALITY OF LIFE IN ROME AND
THE SURROUNDING COMMUNITIES.



<https://www.griffincf.org>

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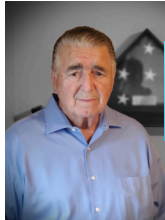
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Executive Co-Chair; Education
Camden CSD (Ret.)



ROBERT BOJANEK
Executive Co-Chair; Business
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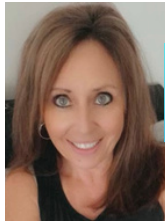
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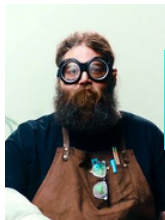
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TV Host, Public Speaker,
Leader in STEM



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Bantam Engineering
Portland, OR



DR. DEBBIE BEREICHEZ
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PFF Co-Chairperson



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Oriskany Jr./Sr. HS



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TAMALIN MARTIN
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MARTHA GROUP
Superintendent,
VVS Schools



BRUCE ROSENBAUM
Artist, Creator of Modvic



KEVIN HEALY
Asst. Director,
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JOSEPH ROSENBAUM
Director of Digital Learning, Technology &
Innovation, Yeshiva University



**DOMINICK LISI,
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Chief of Operations and
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DEB VAN SLYKE
Retired Director of Curriculum & Instruction,
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ANDREW KENNEDY
Principal,
Oriskany Jr./Sr. HS



HEATHER WIELAND
Director for Instructional Technology & Data,
Camden CSD

"Don't prepare learners for something, prepare them for anything. "

-Eric Sheninger

STEERING COMMITTEE



BOB BOJANEK*
Executive Co-Chairperson
Entrepreneur



STEPHANIE CIOTTI
STEAM Outreach
Educator



TARA DAY
Community Outreach



EMILY DOLE
STEAM Outreach



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Founder/ Chairman of the Board
President, ANDRO



EVAN DROZD*
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JESSICA GRIFFIN*
Workshops Coordinator
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MARTHA GROUP
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AMY JAWORSKI*
2024 Conference Manager
ANDRO



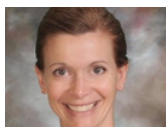
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STEAM Outreach & Curriculum
Modvic



RAMONA SMITH*
Community Outreach
Rome Council Woman



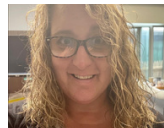
TIM THOMAS
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DEB VAN SLYKE*
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Retired Director of Curriculum & Instruction



BARBARA WELCH*
Community Outreach
AndroMetaX



HEATHER WIELAND
Curriculum & STEAM Outreach
Camden CSD



DR. MITCHELL WILBERT
Community Outreach

*Members of the Project Fibonacci® Foundation, Inc. Core Team

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STEAM FACILITATORS



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CNY Psychiatric Center



SHARON BIELBY
Retired School Teacher, Camden



DAN BERNABE
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Student at Le Moyne College and
Syracuse University



ZACHARY BERLE
Student Services Advisor,
On Point for College



DIANE BORGHOFF
Senior Consultant – Innovation &
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JEFFREY BIRT
Associate Professor, School of
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JESSALYN BIRT
Cornell University Student,
Former STEAM Scholar



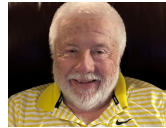
BARB WELCH-DROZD
Owner of AndroMetaX



JU MI LA
Utica University Student



PENNY MANN
Curriculum & STEAM Outreach
Driskany Jr./Sr. HS



GUY MARTIN
Retired Drug & Alcohol Counselor /
Administrator for Corrections



TAMALIN MARTIN
Retired School Administrator /
Conference Co-Chairperson



KEVIN MORRISROE
Math & Ethics Teacher,
Notre Dame High School



JULIA PILNY
Retired Computer Scientist,
Artist



MARY JO POST
Upstate University Cardiology
Nuclear Testing Department



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SONDRA WHALEN
Director of Student Programs
and Communications, VVS



CAROL WOJDYLA
Nuclear Physicist, Ret.



RENEE WORN
Retired Educational Administrator



SAFIA ZAMAN
Frost School of Music, University of
Miami '23

NOT PICTURED:

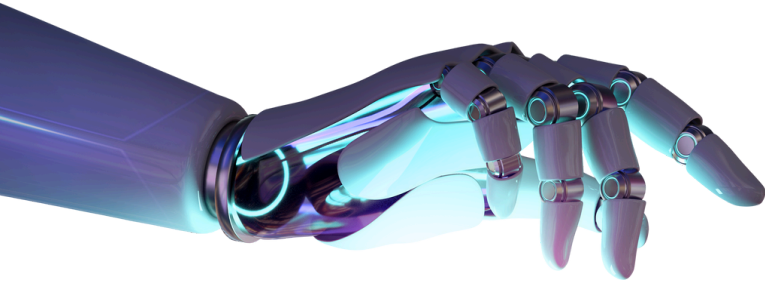
DIANE LUNDRIGAN
Retired School Teacher, Camden

JACKIE MANN
Educator, Adirondack CSD

JENNIFER REYNOLDS
Advisor, On Point for College



2024 CONFERENCE THEME



Artificial Intelligence, the Smart Machine & the Human Factor

Our focus is on the transformative world of Artificial Intelligence (AI) and its multifaceted impact on both society and technology. Throughout this week, you will delve into the complexities of AI, exploring both its potential benefits and the challenges it presents.

We will engage in thought-provoking discussions about the growing concerns surrounding "deepfakes," automated bots, and amplification algorithms. These technologies have the power to spread misinformation at an unprecedented scale, posing significant challenges for society. However, we will also explore the historical context of these issues, emphasizing that while AI may amplify misinformation, the underlying problem is far from new. Our goal is to foster a balanced and scholarly examination of AI, encouraging you to critically analyze and address these pressing issues.

Beyond the technical discussions, the Project Fibonacci® STEAM Leadership Conference offers a unique opportunity to interact with peers and experts, collaborate on a consensus presentation, and develop professional relationships. This immersive experience will expose you to significant global challenges and empower you to think of yourselves as part of the solution. As you navigate through the various sessions and activities, we hope you will be inspired to leverage AI and other STEAM disciplines to create positive change in the world.

Welcome to a week of learning, collaboration, and inspiration – *your journey into the future of STEAM leadership begins here.*



CONFERENCE STRUCTURE

The conference includes both topical workshops and STEAM workshops, which may or may not directly relate to the conference topic. STEAM workshops are designed to provide a break from the topical workshops providing scholars an opportunity to relax and participate in non-traditional STEAM activities.

Each color team (red, orange, yellow, green, blue, purple), will select a sector and application of AI to present. At the conclusion of the conference, each team will go on stage and present how AI is applied in their selected sector, ultimately judging whether the application was a “Good Use” or “Bad Use” of AI.

Scholars will be allowed to use:

- Visual aids in their presentation
- ChatGPT to assist them in researching their topic

Judge’s questions to consider - Did the team:

- Introduce their selected sector application?
- Provide a cogent argument for the use of AI in the application?
- Provide a cogent argument against the use of AI in the application?
- Provide a verdict consistent with their arguments?

Examples of Sectors:

- Technology & Communications
- Healthcare
- Finance
- Retail
- Manufacturing
- Automotive
- Energy
- Agriculture
- Education
- Arts & Entertainment
- Media

WORKING GROUPS

Each team (12-15 Scholars) will select two scholars to present their final poster projects on Saturday. The remaining 10+ will participate in the “On-Stage Presentation;” One role per student. Please Note: Color teams will work together to complete their project to allow for a cohesive outcome. Prizes will be awarded for the Judge’s Choice & the People’s Choice Winning Teams!



CLOSING ARGUMENTS

Focused on effectively communicating their position



RESPONSIBLE USE

Considers the ramifications of a particular AI application



APPLICATION & TECHNICAL

Considers the state of the art associated with an AI application, i.e., hype vs. reality

**REFER TO THE COMPLETE AI CONFERENCE
HANDBOOK FOR DETAILS & PROJECT INFORMATION**



TEAM PROJECT OVERVIEW

The 2024 STEAM Leadership Conference is designed to engage young scholars in a critical analysis of AI applications across various sectors. Teams will explore, research, and ultimately debate the merits and drawbacks of a specific AI application of their choosing.

Throughout the conference, each team will split into two subgroups. One subgroup will argue that their chosen AI application is a beneficial use of technology, while the other will critique it as a potentially harmful use. Examples of AI applications that could be selected include but are not limited to, medical radiology, autonomous driving, facial recognition, and personalized education. To aid in their research, scholars will have access to tools such as ChatGPT, which will provide assistance in gathering relevant information and perspectives.

The conference will culminate in a series of presentations where each team will share their findings and conclusions on stage, using visual aids to reinforce their arguments. They will present both sides of the argument before delivering their final verdict on whether the use of AI in their chosen application is a "Good Use" or "Bad Use." This event not only encourages critical thinking and public speaking skills but also fosters teamwork and ethical reasoning in the context of cutting-edge technology.

SPECIAL THANK YOU TO OUR
IN-KIND DONOR:



CRITICAL THINKING SKILLS TO CONSIDER:



ANALYSIS

Breaking down complex information into smaller, manageable parts to understand how they fit together or relate to each other.



EVALUTION

Assessing the credibility and relevance of information sources, arguments, and evidence. This involves critical assessment of the strengths and weaknesses of various positions or arguments.



INFERENCE

Drawing logical conclusions from available evidence and reasoning. This includes predicting outcomes and identifying implications.



EXPLANATION

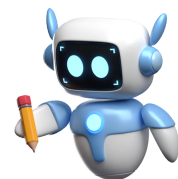
Articulating reasons for decisions or conclusions in a clear, transparent manner, and explaining the methodologies used to arrive at conclusions.



SELF-REGULATION & CONFIRMATION BIAS

Reflecting on one's own beliefs, values, and biases, and willingness to reconsider and adjust one's thinking in light of new evidence or perspectives.

Team facilitators, STEM experts, and volunteers will be on-site throughout the day to help teams develop their projects.



DAILY SCHEDULE BREAKDOWN

8:00-9:30

Breakfast & Wakeup Workshops

10:00-12:30

Workshops, Special Presentations, Lectures

12:30-1:30

Lunch

1:30-4:00

Workshops Continued

4:00-5:00

Project Development

5:00-6:00

Dinner

6:30-8:00

ESTEAMed Speakers Series (Monday, Tuesday, Special Events Friday)

6:00-10:00

Project Development & Social Options

EMERGENCY CONTACTS

Amy Jaworski: 315-527-6030

Tamalin Martin: 315-886-1158

Ramona Smith: 315-292-3755

ON-SITE SECURITY

Rome Police Department

ON-SITE MEDICS

Local Certified Medic Core EMTs

ROOM #: 101



WAKEUP WORKSHOPS

MONDAY 8:00

GRIFFISS PARK RUN & WALK

Billy & Danny Bernabe



Experience the refreshing morning air as you lace up your shoes and hit the trails with the Bernabe brothers at the Griffiss Business & Technology Park. Whether you're up for a brisk run or a leisurely walk, start the day off right with some fun in the sun!*

*Weather permitting :)

TUESDAY & THURSDAY 8:00

MORNING YOGA

Nicole Hayman-Sherman - Just Breathe Yoga Studio



Students who are interested can participate in a morning yoga class led by Nicole Hayman-Sherman, instructor and owner of Just Breathe Yoga Studio. Nicole is a Registered Yoga Teacher (ERYT500) and a Grand Master of Yoga through the World Yoga Federation. She has been teaching in CNY for 12 years, having over 8000 hours of teaching experience.

WHAT'S ON THE MENU

Breakfast: Start your day with a continental breakfast in the hotel dining area each morning to energize yourself for the day ahead. **Please Remember: All STEAM Scholars should be prepared and gather in the tent every morning by 9:30.**

MONDAY, 8/5

- LUNCH - SLIDERS, TOTS & SALADS
- DINNER - MEDITERRANEAN MONDAY

TUESDAY, 8/6

- LUNCH - SOUP & WRAPS
- DINNER - TACO TUESDAY

WEDNESDAY, 8/7

- LUNCH - BACKYARD BBQ & LOADED FRIES
- DINNER - ITALIAN SPECIALITIES

THURSDAY, 8/8

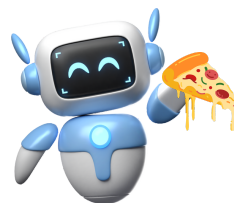
- LUNCH - PIZZA PARTY
- DINNER - PAD THAI & ASIAN FAVORITES

FRIDAY, 8/9

- LUNCH - SOUP & SANDWICHES
- DINNER - SOUTHERN BBQ



[VIEW THE FULL DAILY MENUS](#)



A huge thank you goes out to our caterers at Feast & Festivities by O'Connors for creating an amazing menu for the week. Each meal will include fresh salads and dietary-friendly choices such as vegetarian, vegan, kosher, halal, and gluten-free options.

DAILY SOCIAL OPTIONS



SUNDAY, AUGUST 4

7:30 STEAM Scholar Scavenger Hunt
9:00 MVAS Stargazing*

MOHAWK VALLEY
ASTRONOMICAL SOCIETY

Public Stargazing
Monthly Programs



info@mvas-ny.org 
mvas-ny.org



MONDAY, AUGUST 5

8:00 Drumming Circle by Lead with Rhythm
Candy Bar



TUESDAY, AUGUST 6

7:30 S'mores & Outdoor Games*



WEDNESDAY, AUGUST 7

8:00 Outdoor Movie Night & Snow Cones with FunFlicks*^-
Sponsored by TACNY



THURSDAY, AUGUST 8

7:00 Board Game Night & Oreo Taste Tests
**RAIN DATE FOR OUTDOOR MOVIE NIGHT



FRIDAY, AUGUST 9

8:30 Dance Party with DJ Della & Ice Cream Social

PLEASE NOTE: THE POOL/GYM ARE ONLY AVAILABLE IF THERE IS A CHAPERONE PRESENT

*Weather Permitting



THANK YOU TO OUR PLATINUM SPONSOR



UpMobility Foundation works to uplift people in the United States and abroad as we help them achieve their full potential. To this end, we recognize the importance of connecting people through creating opportunities for collaboration. We are dedicated to the notion of individual growth, strong families and connected communities.

The UpMobility Foundation is a testament to the values perpetuated by the late William “Bill” Babinec, who was the father of founder, Martin Babinec. The son of Slovak immigrants, Bill worked tirelessly to support his wife and seven children. Despite his modest resources, Bill gave generously to the less fortunate as well as to organizations that promote family values. A lifelong resident of Little Falls, New York, Bill was active in his church in addition to being a member of an organization dedicated to community development, a role that he took on well into his 80s.

In 1999, following many years as a successful Silicon Valley entrepreneur, Martin Babinec relocated his family to Little Falls. Inspired by his father’s example, Martin has become a catalyst for economic development in Upstate New York and elsewhere. Additionally, Martin has also supported causes that promote self-reliance, education, humanitarian aid and family values, among others. Martin was moved to establish the UpMobility Foundation as a way to cement his family’s commitment to the ideal that to whom much is given, much is expected.

Martin founded Silicon Valley based *TriNet* in 1988, serving as CEO for the company’s first 20 years, Chairman through 2010 and retiring from the Board of Directors in June 2022. TriNet’s cloud based HR services help 16,000 small to mid sized companies, has grown to annual sales of \$5+ billion, listing on NYSE under ticker *TNET*. He remains the company’s largest non-institutional shareholder. Martin also founded and helps lead *UpVentures Capital*, *Rock City Centre*, *RockCity Development* and non profits *Upstate Venture Connect*, *Entrepreneurs AcrossBorders*, *Unite NY* and *UpMobility Foundation*. He is the author of Amazon best seller *More Good Jobs: An Entrepreneur’s Action Plan to Create Change in Your Community*.

LEARN MORE HERE:



SUNDAY, AUGUST 4

WELCOME RECEPTION

SPONSORED BY GRIFFISS INSTITUTE



WELCOME MESSAGE / FEDERAL AI POLICY PERSPECTIVES

SENATOR CHUCK SCHUMER

Senator Schumer leads the Senate's Security, Accountability, Foundations, Explain (SAFE) Innovation initiative drawing on the perspectives of AI industry experts to harness AI's potential and protect our society from its potential harms.

KEYNOTE PRESENTATION

DR. MICHAEL HAYDUK

**DEPUTY DIRECTOR, INFORMATION DIRECTORATE
AIR FORCE RESEARCH LABORATORY**

Dr. Michael J. Hayduk is the Deputy Director, Information Directorate, Air Force Research Laboratory, Rome, New York. The directorate's mission is to lead the development and integration of Air Force warfighting information technologies for Command, Control, Communications, Computers, Intelligence, and Cyber.

Dr. Hayduk plays a key role in overseeing an annual budget of over \$1.5 billion, leading the activities of over 1,200 scientists, engineers, administrative and support personnel. He is also a senior advisor for AFRL's Quantum Information Science research portfolio spanning six technical directorates. Dr. Hayduk was instrumental in the formulation and stand-up of the Innovare Advancement Center which is the open innovation technology hub located just outside of the security perimeter of the Information Directorate. Dr. Hayduk continues to lead the development of AFRL strategic partnerships at Innovare.

Dr. Hayduk was the Chief of the Computing and Communications Division, Air Force Research Laboratory, Information Directorate, Rome, New York from 2011 to 2019. The division's mission is to lead the discovery, development and integration of affordable computing, networking and communications technologies for our air, space and cyberspace forces. Dr. Hayduk was responsible for defining, planning, budgeting, advocating, managing and directing the execution of the research program and leads all aspects of personnel management within the division.

Dr. Hayduk joined the Air Force through the Palace Knight educational program in 1991 and was assigned to Rome Laboratory. Upon completion of his graduate studies, he served as a research engineer where he developed ultrafast solid state pulsed lasers for optical communication systems. As a team leader Dr. Hayduk led the development of microwave photonic components and subsystems for use in radio frequency sensors. Dr. Hayduk became the acting Chief for the Electro-Optic Components Branch in 2005 in the AFRL Sensors Directorate which developed components and subsystems for advanced radio frequency and electro-optic AF sensor systems. In 2007 he became the Chief of the Emerging Computing Technology Branch in the AFRL Information Directorate which performs fundamental and exploratory research and development in nanocomputing, quantum computing, computational intelligence and optical computing for advanced computing architectures. Dr. Hayduk has published more than 50 journal and conference papers and holds one US patent. Dr. Hayduk received a B.S. from Clarkson University, an M.S. from the University of Virginia and his Ph.D. from Cornell University all in electrical engineering.





WHAT IS IN THE BLACKBOX AND HOW DOES IT WORK?

Dr. Jithin Jagannath - ANDRO Computational Solutions, LLC

Join Dr. Jithin Jagannath, Director of the Marconi-Rosenblatt AI/ML Laboratory at ANDRO, and gain into artificial intelligence and machine learning principles, real-world applications, and ethical considerations. Understand AI algorithms, their impact, and how they function.

Workshop Blocks 1 & 2 ROOM 205



MAKE YOUR OWN AI CONSTITUTION

Joseph Rosenbaum - Director of Digital Learning, Technology & Innovation, Yeshiva University

Prepare for the final project of putting AI on trial by exploring ethical, legal, and societal aspects of artificial intelligence. Gain insights on AI rights, responsibilities, and regulatory frameworks. Develop critical thinking skills for a trial simulation while shaping AI governance.

**Workshop Block 1 - REPEATS TUESDAY
PC- 207**



EXPLORING CHATGPT

Claire Ehrlich & Dr. Shahida Dar - Mohawk Valley Community College

Participants in the workshop will learn about ChatGPT's fundamentals, technology based on the GPT model, and practical examples of its applications in enhancing interactions and automating responses across industries. Live demonstrations will showcase ChatGPT's ability to generate human-like text responses.

**Workshop Block 1 & 3 - REPEATS TUESDAY
PC- 206**



USING AI TO BECOME YOUR PERSONAL ASSISTANT

Dr. Bill Daggett, Founder of Successful Practices Network

Dr. Daggett will offer strategies that will allow you to employ AI as your personal assistant, freeing you from many of your time-consuming tasks and allowing you to focus your attention on other important matters. Participants will be asked to share with others in attendance how they are presently using AI. **BRING A CHROMEBOOK!**

Workshop Block 2 ROOM 209



LLM AI/ML APPLIED TO CONTACT CENTERS

Jean Pierre Ferrada - Deloitte Consulting

In this session, we will dive into the practical applications of Large Language Models (LLM) and Machine Learning (ML) within the contact center environment. Discover how these technologies can enhance interactions, streamline operations, and provide actionable insights from vast amounts of data.

Workshop Block 2 & 3 ROOM 207



RESPONSIBLE AI

Kay Firth-Butterfield, CEO, Good Tech Advisory

Join one of our keynote speakers, Kay Firth-Butterfield, during this exclusive workshop where Kay will share her extensive knowledge and insights on the principles and practices of responsible AI, highlighting real-world applications and challenges.

Workshop Block 3 ROOM 209

MONDAY - WEDNESDAY

SPECIAL WORKSHOP

STEAMPUNK TIME TRAVEL ADVENTURE MAKING A STEAM PUNK TIME-O-GRAPH



Join us for a one-of-a-kind workshop that combines history, art, engineering, and technology in an amazing Steampunk time travel experience where you'll actually converse with an historical or fictional figure through AI ChatGPT! Discover the fascinating connections between art, history, science and artificial intelligence as you explore the imaginative world of Steampunk art and design. You'll create your very own Steampunk-inspired time machine - the Time-O-Graph. Repurposed from an antique phonograph crank handle player, clock face and vintage parts - this unique functional art piece will not only be a fantastic time traveling conversation piece letting you converse with an historical figure, but also a practical phone or tablet holder for your home or office.

BRUCE ROSENBAUM

Special Workshop Presenter



Bruce Rosenbaum is an American artist and designer based out of Palmer, MA. He is known for his work in Steampunk design, both in his home, The Steampunk House, and for what has produced by his company, ModVic. Bruce has been called the 'Steampunk Guru' by the Wall Street Journal and the 'Steampunk Evangelist' by Wired Magazine.

Rosenbaum and his wife started ModVic (from Modern Victorian), a Victorian-home restoration company, in 2007. ModVic is a steampunk art and design company that repurposes antiques and salvaged objects by transforming them into useful residential and commercial items.

Projects include his personal computer workstation housed in a Victorian pump organ, a 6-foot mechanical whale for a hotel in Nantucket, Massachusetts, and a late 1800s bandsaw repurposed as a conference table and workstation.



Bruce Rosenbaum and his work have been featured in the *Wall Street Journal*, *Boston Globe*, *The Chicago Tribune*, *The New York Times*, *CNN*, *Huffington Post*, *NPR* and featured on *MTV*, *A&E*, *Discovery* and *HGTV*.

MONDAY, AUGUST 5

19

ESTEAMed SPEAKERS SERIES

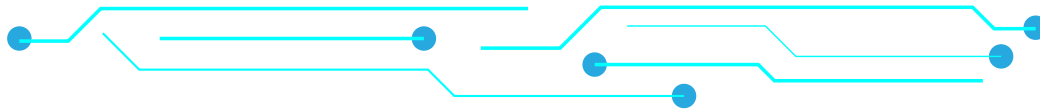


DR. BILL DAGGETT

FOUNDER OF THE SUCCESSFUL PRACTICES NETWORK & THE INTERNATIONAL CENTER FOR LEADERSHIP IN EDUCATION

**AFTERNOON KEYNOTE:
NEW AND EMERGING AI - IMPACT ON YOUR FUTURE**

Dr. Daggett will share the dramatic and rapidly evolving impact AI is having on the workplace. Fundamental changes in the ways businesses operate are leading to a major shift in the skills, knowledge, and dispositions that employees must need to have to thrive in their jobs. Students, too, will need to develop these skill sets to be prepared for success in all aspects of life, work, and society.



Bill Daggett is the founder of both the Successful Practices Network and the International Center for Leadership in Education. He recently co-chaired the AASA LEARNING 2025: National Commission for Student-Centered, Equity-Focused, Future-Driven Education and is now leading the National Demonstration Network for AASA.

Dr. Daggett is recognized worldwide for his proven ability to move Pre-K-12 education systems towards more rigorous and relevant skills and knowledge for all students. For 30 years, he has crisscrossed our nation, as well as the industrialized world, to lead school reform efforts to effectively prepare students for their future.

While an avid supporter of public education, he also challenges all of us to be more focused on our children's future than on maintaining the schools of our youth. His insights and leadership have caused nearly every major education association in the country, hundreds of school districts, numerous political and business leaders, publishers, and others to seek out his advice and guidance.

Dr. Daggett began his career as a teacher, local administrator, and then director with the New York State Education Department. He spends much of his time providing leadership and guidance to the National Dropout Prevention Center and the Career and Technical Education Technical Assistance Center, which are part of the Successful Practices Network.

He is the creator of the Rigor/Relevance Framework and the Future-Focused Success Framework which has recently become the cornerstone of much of the nation's school reform efforts. He is also the author of 26 books about learning and education, textbooks, research reports, and journal articles. Dr. Daggett has been recognized as a distinguished alumnus by both Temple University and the State University at Albany.

Dr. Daggett has a special commitment to individuals with disabilities. He and his wife, Bonnie, volunteer their time and lend their support to Wildwood Programs in upstate New York. Wildwood serves the needs of people of all ages who, like their daughter Audrey, have neurological impairments/learning disabilities or autism, by enabling them to become the best that they can be.



MONDAY, AUGUST 5

20

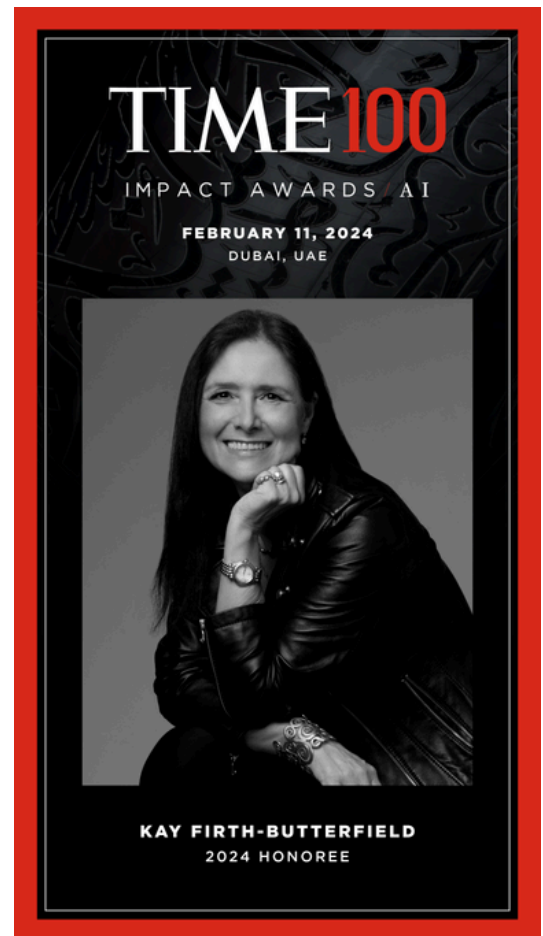
ESTEAMed SPEAKERS SERIES



KAY FIRTH-BUTTERFIELD

**CEO, GOOD TECH ADVISORY, TIME 100 IMPACT AWARDEE 2024,
FORMER HEAD OF AI AT THE WORLD ECONOMIC FORUM AND
WORLD'S FIRST CHIEF AI ETHICS OFFICER**

Kay Firth-Butterfield is the CEO of Good Tech Advisory. TIME 100 Impact Awardee 2024. She was the Inaugural and former Head of Artificial Intelligence and a member of the Executive Committee at the World Economic Forum and, in 2014, became the World's first Chief AI Ethics Officer. She is one of the foremost experts in the world on the governance of AI. Kay is a Barrister, former Judge and Professor, technologist, and entrepreneur who has an abiding interest in how humanity can equitably benefit from new technologies, especially AI. She became the world's first Chief AI Ethics officer in 2014. Kay is a Senior Research Fellow at the University of Texas and the author of books on Human Rights, AI, and Modern Slavery. Kay was vice-chair of the ground-breaking IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems and was part of the group that met at Asilomar to create the Asilomar AI Ethical Principles. She sits on the Polaris Council for the Government Accountability Office (USA), the Advisory Board for UNESCO International Research Centre on AI, the Advisory Board for international company ADI, the AI and Philanthropy Steering Committee of the partnership on AI and the Board of Earth Species Project. She is on the World Economic Forum's Global Future Council on AI and their AI Governance Alliance. Kay has advanced degrees in Law and International Relations and regularly speaks to international audiences addressing many aspects of the beneficial and challenging technical, economic, legal, geo-political, and social changes arising from the use of AI. Kay is an Associate Barrister (Doughty Street Chambers), Master of the Inner Temple, London, and served on the Lord Chief Justice's Advisory Panel on AI and Law. She has been consistently recognized as a leading woman in AI since 2018 and was featured in the New York Times as one of 10 Women Changing the Landscape of Leadership.



**LEARN MORE ABOUT
KAY FIRTH-
BUTTERFIELD**

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WORKSHOPS



MAKE YOUR OWN AI CONSTITUTION

Joseph Rosenbaum - Director of Digital Learning, Technology & Innovation, Yeshiva University

See the full workshop description on page 17

Workshop Blocks 1 & 3 ROOM 207

EXPLORING CHATGPT

Claire Ehrlich & Dr. Shahida Dar - Mohawk Valley Community College

See the full workshop description on page 17

Workshop Block 2 ROOM 206



NAVIGATING ETHICAL CHALLENGES

Kevin Morrisroe - Math & Ethics Educator (Ret.), Notre Dame High School,

Participants will explore the ethical dimensions of AI, learning about responsible development and the Tenets of Humane Technology. This session is essential for those interested in the intersection of technology and ethics, offering insights to shape AI's future positively.

Workshop Blocks 1 & 2 ROOM 209



ARTIFICIAL CREATIVITY

Dr. Robert Edgell, SUNY Polytechnic Institute Professor, Technology Management

In this workshop, participants will delve into the fascinating world of artificial creativity, exploring how advancements in artificial intelligence and machine learning are transforming creative processes across various industries. Dr. Edgell will guide attendees through the principles and applications of artificial creativity, highlighting the intersection between technology and human ingenuity.

Workshop Blocks 1 & 2 ROOM 205



WHO WOULD EVER WANT A ROBOT DOG?

Dr. Dave DeProspero - Air Force Research Laboratory

Explore Fluffy, a robotic dog, and an AFRL HUMVEE. Learn about Fluffy's engineering, technology, and applications in military operations. Witness a live demonstration of Fluffy's capabilities and discover the broader implications of robotic technology.

Workshop Blocks 3 & 4 DINING HALL



CERAMICS & STEAM

Julia Pilny - Retired Engineer & Artist

Scholars will learn how the creation of ceramics embodies all aspects of STEAM and why ceramics is a popular alternative to materials such as plastic. Participants will also be able to create and apply glaze to items that they can take home!

Workshop Blocks 3 & 4 ROOM 119



THE STRUGGLE IS REAL

Rachelle Guitian - Smart Carriers & Tamalin Martin - The Project Fibonacci® Foundation, Inc.

This workshop will guide you on a journey of self-discovery and growth, where discomfort and failure are redefined as essential components of success. In today's fast-paced world, the journey to success is often paved with discomfort, failure, and moments of self-doubt. These do not have to be roadblocks but can be stepping stones to achieving your fullest potential.

Workshop Block 4 ROOM 209



UNDERSTANDING THE (HUMAN) WRITING PROCESS

Tim Carter, Poet, Educator, Program Director - YMCA

Participants will be able to explain how general intelligence machines like Chat GPT work by using relatable metaphors. Describe the (human) writing process by creating a visual/linguistic diagram. Relate the human writing process generally, and specific historical writing movements like Surrealism, to how general intelligence machines work.

Workshop Blocks 3 & 4 ROOM 206

TUESDAY, AUGUST 6

23

ESTEAMED SPEAKERS SERIES

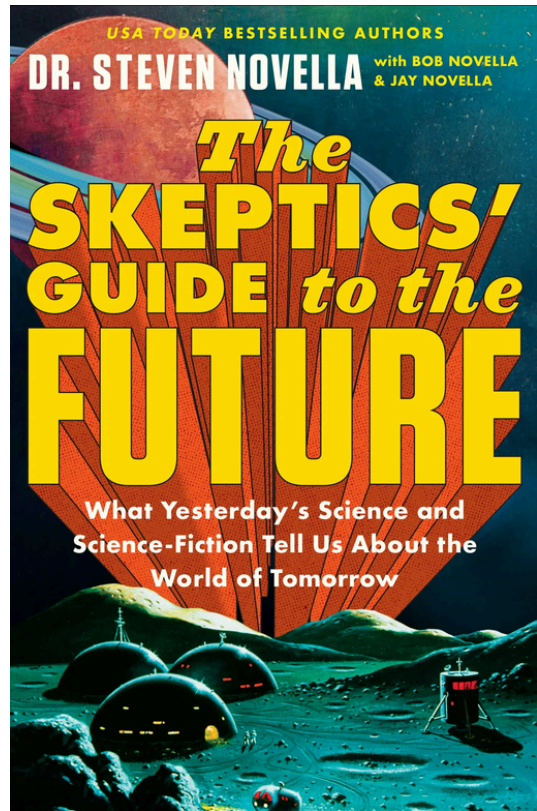


DR. STEVEN NOVELLA

ASSOCIATE PROFESSOR OF NEUROLOGY, SCIENCE COMMUNICATOR & BESTSELLING AUTHOR

Keynote Speaker
Tuesday, August 6

Dr. Steven Novella is an academic clinical neurologist at Yale University School of Medicine and is host and producer of "The Skeptics' Guide to the Universe" (SGU). He also co-hosts "Alpha Quadrant 6," a science-fiction review show. He is the author of the bestselling book *The Skeptics Guide to the Universe: How to Know What's Really Real in a World Increasingly Full of Fake*. Dr. Novella has made multiple appearances on NPR's *All Things Considered* and is a frequent guest on radio talk shows and science podcasts. His television credits include *The Dr. Oz Show*, *Penn & Teller Bullsh*t*, *20/20*, *Inside Edition*, *The History Channel*, *The Unexplained on A&E*, *Ricki Lake*, and *Exploring the Unknown*. When not podcasting, he also authors the popular and award-winning *NeuroLogica* blog and is senior editor of *Science-Based Medicine*, an influential medical blog dedicated to issues of science and medicine. Dr. Novella is the founder and president of the *New England Skeptical Society*, a fellow of the *Committee for Skeptical Inquiry (CSI)*, and founding chairman of the *Institute for Science in Medicine*.



CHECK OUT
THE SKEPTICS GUIDE TO THE
UNIVERSE PODCAST



*"In this age of real and fake information, your ability to reason, to think in scientifically skeptical fashion, is the most important skill you can have. Read *The Skeptics' Guide Universe*; get better at reasoning. And if this claim about the importance of reason is wrong, *The Skeptics' Guide* will help you figure that out, too."*

- Bill Nye

WEDNESDAY, AUGUST 7

OFF-SITE TOURS

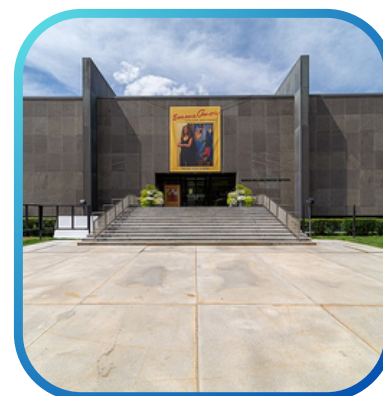
EXPLORING STEAM IN CNY



MASONIC MEDICAL RESEARCH INSTITUTE

Utica, NY

Explore the Masonic Medical Research Institute (MMRI), a not-for-profit institute dedicated to improving the health and quality of life for all. STEAM Scholars will tour the lab and institute learning about their ongoing research and opportunities. MMRI is an internationally recognized biomedical research institute founded by the Grand Lodge of Free and Accepted Masons in the State of New York in 1958.



MUNSON WILLIAMS PROCTOR ART INSTITUTE

Utica, NY

STEAM Scholars will participate in a guided tour of the Munson Williams Proctor Arts Institute (MWPAI) to gain detailed insights into the different artworks on display. Founded in 1919, Munson-Williams-Proctor-Arts-Institute, and updated in 2023, Munson continues to evolve while maintaining traditions of fine art and culture. The Museum of Art features a renowned permanent collection, fascinating exhibitions, and education for all ages in an International-style gallery building designed by architect Philip Johnson and also in Fountain Elms, a Victorian-era Italianate mansion with galleries and period rooms.

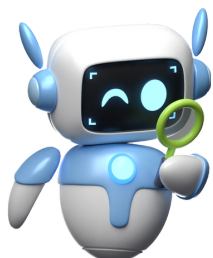


MVCC GAME ART LAB

Utica, NY

During their visit to Mohawk Valley Community College, the STEAM Scholars will have the opportunity to immerse themselves in the fascinating world of Game Art. The first lab they will explore focuses on 3D modeling and digital sculpting, where they will learn how to bring their creative visions to life in a virtual space. From shaping characters and environments to intricately detailing textures, this lab will provide a hands-on experience in the art of digital creation.

In the second lab, the scholars will delve into the realm of game engine implementation and 3D printing. Here, they will discover how games come to life through the seamless integration of graphics, physics, and interactivity. By learning about the intricacies of game engines, they will gain insight into the technical aspects of game development and how to optimize performance for a seamless gaming experience.



LEARN MORE ABOUT
THE MVCC LABS



MORNING PANELS

FACILITATOR PROJECT PRESENTATION

Conference Co-Chairs, Tamalin Martin & Bob Bojanek

Join Tamalin and Bob for an in-depth exploration of presenting a successful project. They will cover topics such as sector and application selection, tips for poster board presentations, and effectively demonstrating both the positive and negative uses of AI in closing arguments and final verdicts. Attending this panel will enhance your readiness for project presentations on Saturday!

Don't miss out on the opportunity to engage directly with these experts, ask questions, and gain personalized feedback on your own project ideas. Whether you're a student, a professional, or an enthusiast looking to refine your presentation skills, this session promises to provide valuable insights and practical advice. Come prepared with your notepads and curiosity, ready to absorb knowledge and network with like-minded individuals. This is your chance to elevate your project presentations and leave a lasting impression on your audience.

DELIVERING A SUCCESSFUL PITCH

Seth Mulligan - Griffiss Institute COO
Elias Zeina, Entrepreneur & Founder of Lafa Mediterranean

This exclusive panel provides crucial advice for perfecting a winning pitch. Learn practical strategies and techniques to deliver your message with confidence. Seth Mulligan and Elias Zeina will highlight the significance of knowing your audience, customizing your pitch to suit their particular requirements and preferences. Apply the insights gained from this panel to enhance your final project presentation!



SPECIAL WORKSHOP

THE SCIENCE OF IMPROV

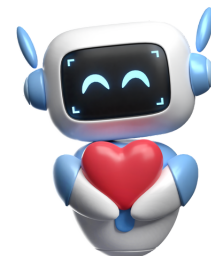
Devin Mahony & the Uptown Improv Company
4:00-5:00



Join us for an exhilarating workshop on the Science of Improv, presented in collaboration with the talented team from Uptown Theatre of Creative Arts (UTCA) Uptown Improv Company! This unique class is designed to enhance communication, creativity, and collaboration within your teams through fun and interactive exercises. Improvisation is great for developing these skills because it requires individuals to think quickly on their feet, listen actively, and how to support your teammates. Whether you're preparing for a final project presentation or simply looking to improve your public speaking and interpersonal skills, this workshop is tailored to help you succeed.



We extend a heartfelt thank you to the UTCA team for their in-kind support!
Learn more about UTCA at utcany.org



WORKSHOPS



UTICA ZOO MOBILE

Join us for an exciting adventure with the Utica Zoomobile Workshop! This unique experience brings the wonder of the animal kingdom right to our doorstep. Led by the Utica Zoo's knowledgeable staff, participants will have the chance to meet a variety of animals up close. Discover fascinating facts about their traits, behaviors, and habitats in an engaging, interactive environment. **Workshop Blocks 1 & 2** **DINING HALL**



COOKIE DECORATING 101

Maggie McGrath - The Sweet Life of a Baker

During this fun and engaging workshop, participants will have the opportunity to unleash their creativity and learn tips and tricks from the talented baker, Maggie McGrath. With her guidance, they will be able to experiment with different techniques, colors, and designs to create their very own unique cookie masterpieces. Get ready to indulge in the sweetest adventure and bring your cookie decorating skills to the next level!

Workshop Blocks 1 & 2 **ROOM 209**



SCIENCE OF THE PARANORMAL

Richard Nikodem, Peter Leonard, Travis Dean & Kevin Yourdon - Agent Paranormal

Agent Paranormal is a local paranormal team that has investigated haunted locations across the nation. The workshop will educate you on the protocols and equipment used to investigate the paranormal. The team will touch upon technology, gear, and share some of their best evidence. **Workshop Blocks 1 & 2** **FESTINE AUD.**



MACRAME PLANT HANGER

Tatianna Moragne - Fiber Artist & Business Owner

In these macrame workshops, students will learn multiple macrame knots. Students will use these knots to create a beautiful macrame plant hanger using cotton rope. Later, they can place a potted plant into their plant hangers and admire their creation.

Workshop Blocks 1 & 2 **ROOM 119**



PAINTING WILD

Erin Horender - Owner of Painting Wild

Dive into acrylic painting with a workshop for all levels. Learn color mixing, brush techniques, and composition with personalized guidance. Express creativity on canvas in a supportive environment.

Workshop Block 3 **ROOM 206**



SELF-DEFENSE 101

Sensei David Bruce, Owner of David Bruce's American Martial Arts

Join us for an empowering self-defense workshop led by Sensei David Bruce of American Karate! This dynamic session is designed for individuals of all skill levels who are eager to learn practical techniques for personal safety and confidence. Sensei David, a seasoned martial artist, will guide participants through fundamental self-defense moves, situational awareness strategies, and essential safety tips and the underlying math and force multiplier science.

Workshop Block 3 & 4 **ROOM 119**

WORKSHOPS



BARBERSHOP MUSIC & STEAM

Dive into the harmonious world of barbershop music with our engaging Barbershop Music & STEAM Workshop! This workshop provides scholars a unique opportunity to explore the rich history of barbershop singing while delving into the fascinating science of sound. Participants will learn about harmonics, dissonance, and consonance, gaining a deeper understanding of how these elements create the distinctive barbershop sound. Beyond the technical aspects, this workshop also highlights the profound impact of music on our emotions and physical well-being. Through interactive discussions and activities, scholars will discover the powerful connection between music and our emotional responses, and how melodies and harmonies can influence our mood and health. **Workshop Blocks 3 & 4** **FESTINE AUD.**



WEIGHING THE POSITIVE & NEGATIVE ASPECTS OF AI IN MUSIC

Singer Juliane Price & Musician Michael Sales

Join an interactive workshop led by singer Juliane Price and musician Michael Sales and explore AI's impact on the music industry. Discussions will cover AI's benefits like enhancing creativity and streamlining production, as well as challenges including loss of human touch and ethical concerns. This workshop offers insights for music enthusiasts and allows us to explore AI's evolving role in shaping the future of music.

Workshop Block 3

ROOM 209



OPEN AIR SUCCULENT TERRARIUM

Ashley Galligan - Geodesic Love

Join a hands-on succulent terrarium workshop to design your personalized miniature garden. Choose a succulent, glass dish, and decorations to create a magical ecosystem. Learn essential succulent care tips and receive an affirmation card for positivity. Perfect for adding greenery and creativity to your life.

Workshop Block 4

ROOM 207



RENEWABLE ENERGY AND YOU

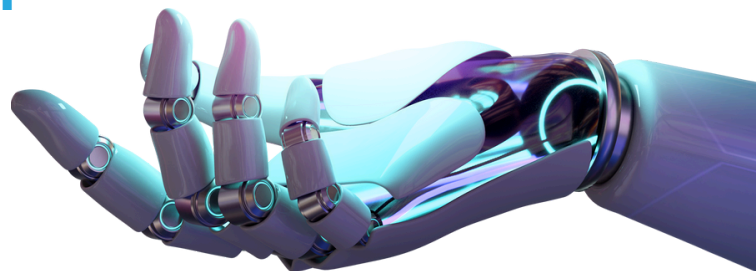
Dr. Aarthi Sekaran - Assistant Professor of Mechanical Engineering

Discover the fascinating world of renewable energy as you immerse yourself in the process of creating innovative models that harness the power of wind and solar energy. This unique hands-on experience will not only deepen your understanding of sustainable technologies but also ignite your creativity and problem-solving skills. Get ready to unleash your imagination and bring your eco-friendly designs to life as you embark on this exciting and educational adventure. **90 Minute Workshop**

Workshop Block 4

ROOM 206

SPECIAL THANK YOU TO ALL OF OUR 2024 WORKSHOP PRESENTERS!



ESTEAMED SPEAKERS SERIES

ORION
OPERATIONAL INFRASTRUCTURE RESILIENCY KIT
FOR OPERATIONAL NETWORKS

WALKER SMITH & JORDAN WIRFS-BROCK

DARING DATA: BRINGING DATA TO LIFE THROUGH IMMERSIVE, PARTICIPATORY PERFORMANCES

In a world where we are constantly bombarded by data streams, how can we understand and relate to such data on a deeply human level? Walker Smith and Jordan Wirfs-Brock are researchers who bring data to life on the stage—using chemical data to compose ‘Helium Dance Parties’ or turning audiences into a collaborative chorus singing air quality data. In this show, they introduce Data Performances, an emergent immersive genre that extends data storytelling into participatory experiences.

Data Performances leverage nontraditional, multisensory representations that allow audiences to experience data through sound, physical interaction, social connection, and other sensory modalities. Drawing from a broad range of disciplines and performance/communication styles—including music, theater, podcasts, teaching, guided meditations, TED Talks, performance art, and science communication—Data Performances emphasize the social, interpersonal, and experiential aspects of data communication.

Reflecting on this year’s STEAM Leadership Conference theme of the Human Factor in Artificial Intelligence, Jordan and Walker will explore how the emergence of AI tools provide an opportunity to reflect on – and embrace – our own humanity. Through a participatory data performance, we will examine our relationship to computers and large datasets, and how we can use our human capacities to understand data.

In this “performance about performances,” Walker and Jordan will share examples from their work as well as others in related fields, providing STEAM Scholars with the tools to communicate complex information in captivating and memorable ways and foster a shared, social connection to information.

Data does not speak for itself – and it certainly doesn’t perform itself. How might you transform data about an issue that you are interested in into an immersive, participatory data performance to communicate your ideas? Join us to find out!

WALKER SMITH

Walker Smith is a ‘Musical Chemist,’ currently pursuing a Ph.D. in Computer Music at Stanford University. He received dual bachelor’s degrees in music composition and chemistry from Indiana University Bloomington, where he combined his interests to create “The Sound of Molecules,” an immersive music/science show that guides audiences on a “sonic tour of the molecular world.” He received a 2023-24 Fulbright Grant to continue his research at the Royal Conservatory of the Hague in the Netherlands, where he developed a sequel show titled “Orchestra of the Elements.” Appearing as the rainbow-clad character, Roy G. Biv, he has performed his shows to thousands across the US and Europe, including at the 2023 Project Fibonacci STEAM Leadership Conference.

His work developing an *Interactive Musical Periodic Table* - an audiovisual musical instrument that converts the visual spectra of elements into sounds - has been featured in over 50 news articles worldwide. When he is not turning molecules into music, you can find him biking and hiking in the mountains, baking pies, and scribbling ideas on one of his many chalkboards.

JORDAN WIRFS-BROCK

Jordan Wirfs-Brock is an assistant professor of computer science at Whitman College in Walla Walla, WA. Her research explores how to bring data into our everyday lives as a creative material by developing data experiences that engage all of our senses, especially sound. She has also researched using data that streaming services log about us as a design resource, crafting with sound and yarn as a collaborative sensemaking activity around personal data, and how people access news and information across various technologies. Jordan came to computer science from a meandering path that included stints as an aerospace engineer, a high school teacher, a civic technologist, and a data journalist covering the energy industry. She is a competitive trail runner who loves relays, ultra-distance races, and multi-day adventures. She grew up in Oregon, is fascinated and terrified by mountain lions, and frequently geeks out over podcasts and board games.

FRIDAY, AUGUST 9

29

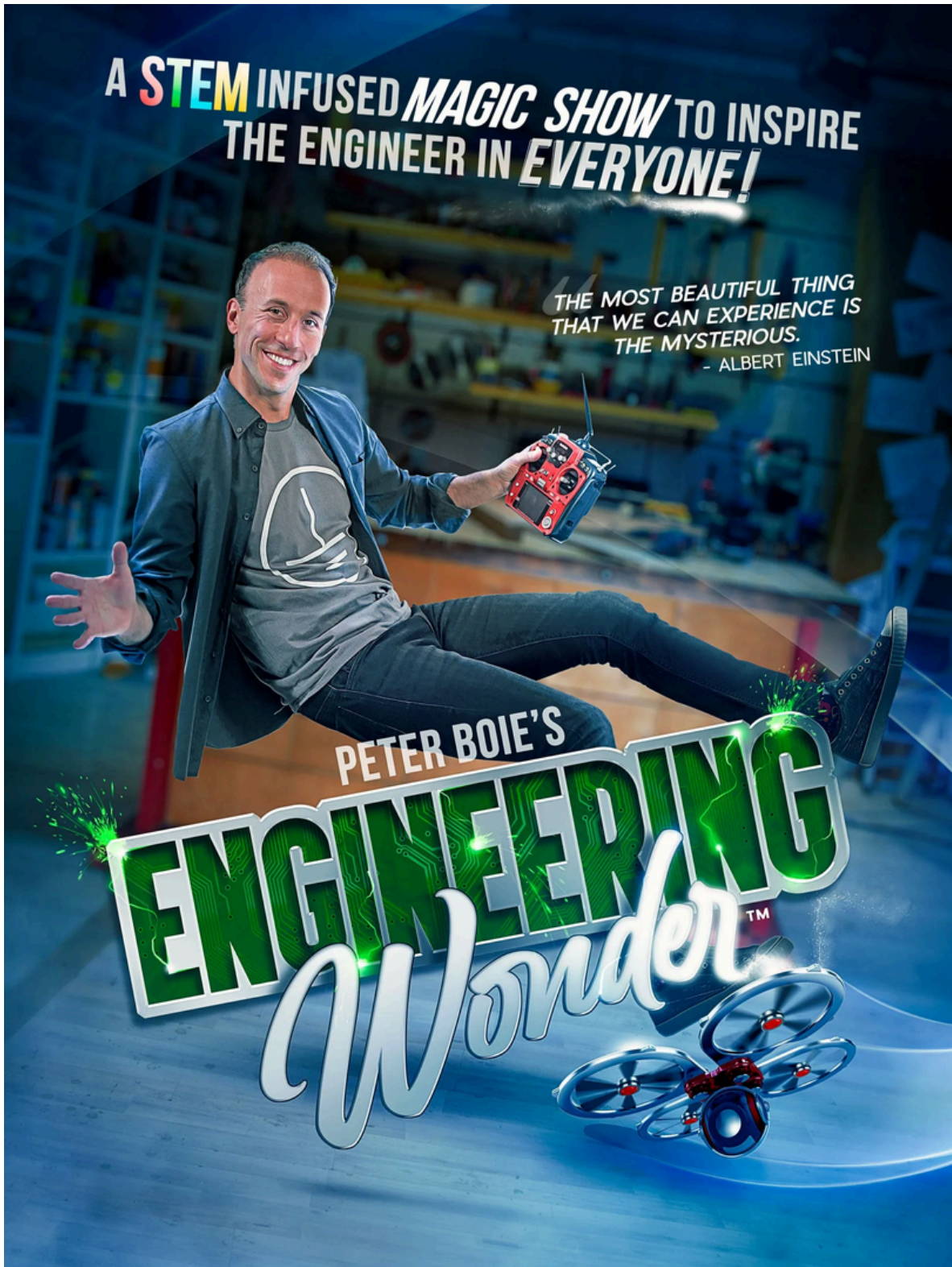
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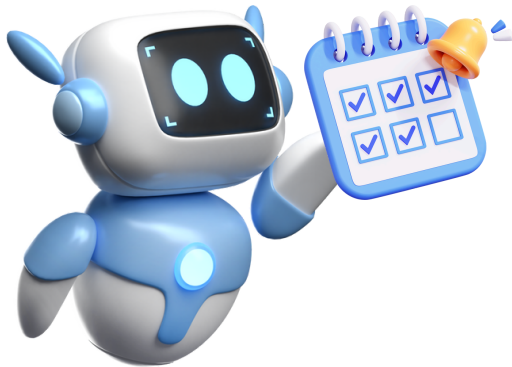
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FRIDAY NIGHT SPECIAL STEAM PRESENTATIONS



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MOHAWK VALLEY GIVES
'GIVING DAY'
15 SEPTEMBER 20TH!



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ANDRO Computational Solutions, LLC, a privately-owned company established in 1994, is dedicated to research, development, and the application of advanced computer software for a variety of applications. ANDRO's diverse portfolio includes: research and development in artificial intelligence and machine learning, waveform development, dynamic spectrum management, spectrum exploitation, cyber-secure wireless communications, cognitive radios and software defined networking, multi-sensor and multi-target tracking, advanced radar data fusion, and sensor resource management.



ANDROMETA

A certified New York State Minority Woman-Owned Business Enterprise (MWBE) that specializes in drone technology education for area schools.



ASSURED INFORMATION SECURITY (AIS)

From testing drones and searching for vulnerabilities in software to building the tools of the cyber warfighter, AIS leads groundbreaking efforts in all areas of cyber and information security. They provide government and commercial customers with industry-leading cyber and information security capabilities specializing in research, development, consulting, testing, forensics, remediation, and training.



BIRCH WEALTH MANAGEMENT

Birch Wealth Management is an independent, comprehensive wealth management firm that provides an array of services to its clients including investment strategies and risk allocation, retirement income planning, estate and contingency planning, and education planning.



CONNECTED ROME COMMUNITY SCHOOLS

Works to bring the community, local agencies, services, organizations, businesses, places of worship, individuals, teachers, administrators, union members, and investors to help students become successful, productive, and engaged healthy citizens.



FUEL YOUR FUTURE FAIR

FIRST SOURCE FEDERAL CREDIT UNION

First Source strives to help you Live Smarter by making good financial decisions. If you live, work, worship, or attend school in Oneida or Herkimer Counties, you qualify to become a Member. What sets them apart from other financial institutions is their approach to doing business. They want to help their Members meet their financial goals and improve their lives.



HILLSIDE WORK SCHOLARSHIP CONNECTION PROGRAM

Founded in 1987, Hillside Work-Scholarship Connection (HWSC) is dedicated to reversing the trend of low high-school graduation rates and helping students realize their potential—in the classroom, in the community, and in life. HWSC students benefit from sustained partnerships with Youth Advocates, and with families, teachers, school staff, and other community supports. The results are seen in their extraordinary graduation rates relative to their home districts.



JERVIS PUBLIC LIBRARY

Jervis Public Library, located in Rome, NY, is a historic and vibrant community hub that offers a wide range of resources and services to its patrons. The library provides access to a diverse collection of books, digital media, and educational programs for people of all ages. With its welcoming atmosphere and knowledgeable staff, Jervis Public Library is a beloved institution that fosters a love of learning and literacy in the local community.



MOHAWK VALLEY COMMUNITY COLLEGE

Mohawk Valley Community College provides accessible, high-quality educational opportunities to meet the diverse needs of our students. With campuses in Rome and Utica, NY, we are the community's college, committed to student success through partnerships, transfer and career pathways, and personal enrichment. As a diverse institution with a global view, Mohawk Valley Community College provides opportunities for affordable education, with support from Oneida County and the State of New York, and offers career, transfer and transitional education, programs for personal and cultural enrichment, and supports community and economic development.



NYSTEC

New York State Enterprise Corporation (NYSTEC) is a nonprofit technology consulting company, advising agencies, organizations, institutions, and businesses. Their highly skilled professionals work with clients on IT strategies, solutions, acquisitions, and security across industries.



FUEL YOUR FUTURE FAIR

ON POINT FOR COLLEGE

On Point for College helps traditional and non-traditional students overcome the barriers to higher education. They support their students from application through graduation and beyond, empowering them to fulfill their dreams and achieve their potential, benefiting both the individual and our community.



PAUL SMITH'S COLLEGE

Paul Smith's College is a thriving college, broadly recognized for outstanding experiential education with an adventurous spirit. The small, private, four-year college is located in the breathtaking Adirondacks of Upstate NY. They're famous for their extraordinary location and hands-on degree programs in fields such as natural sciences, sustainability, forestry, business, hospitality, recreation, and culinary arts. *Through Experiential Learning and Real-World Applications, PSC Delivers Hands-On Education for a Meaningful Life!*



SUNY OSWEGO

SUNY Oswego is one of the best comprehensive universities in the country. Recognized for excellence and value, Oswego is known for its extraordinary faculty, its welcoming atmosphere, and its reputation for producing fiercely loyal alumni. SUNY Oswego continues to meet the evolving needs of employers and society by creating and adapting its broad selection of programs.



SUNY POLYTECHNIC INSTITUTE

SUNY Polytechnic Institute is a globally recognized leader in higher education and technology innovation, research and development. SUNY Poly's four colleges offer exciting, relevant courses and majors that enable students to achieve success in growing 21st century career fields.



US AIR AND SPACE FORCE

The mission of the United States Air Force is to fly, fight and win - airpower anytime, anywhere. Whether full time, part time, in or out of uniform, everyone who serves plays a critical role in helping us achieve mission success. The U.S. Air Force is the world's preeminent force in air, space and cyberspace. We maintain that distinction by maintaining our objective of global vigilance, reach and power and remaining true to our vision statement: The World's Greatest Air Force—Powered by Airmen, Fueled by Innovation. Through shared values, key capabilities and upholding our Airman's Creed, we continue to achieve our mission and aim high in all we do.



FRIDAY, AUGUST 9

FUEL YOUR FUTURE FAIR

UTICA UNIVERSITY

Located in the heart of Central New York, Utica University is a comprehensive, independent, private institution founded in 1946 as Utica College. They offer many of the advantages of a large university, such as undergraduate and graduate degree options, excellent academic programs, and outstanding faculty, but with an intimacy and a high degree of personal attention more closely associated with smaller private institutions.



WOLFSPEED

At Wolfspeed, we are the creators of the advanced semiconductor technology that powers the world's most disruptive innovations. In other words, it's our job to make humankind's greatest ambitions – real. Our solutions, including silicon carbide material, Power Modules, Discrete Power Devices and Power Die Products, are targeted for various applications. Helping make cars, planes, renewables, race teams, cities, and everything in between, better, faster, greener, cooler, and more sustainable for billions to live better lives.



NETWORKING TIPS & TRICKS



BE PREPARED

Before attending a College & Career fair or networking event, do some research on the exhibitors present. This will help you prioritize which booths to visit and prepare thoughtful questions. Prepare a brief introduction about yourself and your goals. Being prepared will help you make a great first impression!



BE CONFIDENT

Confidence is key when networking. Believe in yourself and your abilities. Approach others with a positive attitude and a strong handshake. First impressions matter, so dress in professional attire that reflects your style while also being appropriate for the event. This will help you make a positive impact on recruiters and admissions officers. Remember, you have valuable insights and perspectives to offer.



LISTEN & ASK QUESTIONS

Networking is not just about talking about yourself; it's also about listening to others. Prepare a list of questions to ask exhibitors that will help you gain more insight into their programs, opportunities, and company culture. Ask about internships, career paths, campus life, and other specific information you're interested in.

QUESTIONS TO ASK:

- What internship opportunities does your company offer?
- How does your college support students in their company development?
- What sets your company apart from competitors in terms of workplace culture?
- How can students get involved in research projects or extracurricular activities?
- Can you tell me more about the specific programs your college offers in my field of interest?

THANK YOU TO OUR SPONSOR



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ANDRO Computational Solutions, LLC, established in 1994, is dedicated to research, development, and application of advanced computing solutions and products for wireless communications, intelligent spectrum management, and C5ISR for defense and commercial customers.

ANDRO enables future growth markets in edge computing and communications today, to give early adopters a first mover market advantage and gain market dominance as others follow.

CORE TECHNOLOGIES

- Waveform Development
- Policy-Governed Dynamic Spectrum Access
- Intelligent Spectrum Management
- Next G & Multi-Access Edge Computing
- Cognitive Radios & Software Defined Networking using Artificial Intelligence / Machine Learning
- Blockchain-supported HyperLedger Fabric for Decentralized Mesh Networks
- C5ISR (Including Data Fusion & Tracking)
- Sensor Resource Management
- Cosite/EME Toolkits & Independent Studies
- Cyber-Secure Wireless Communications
- Quantum Communications

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DAILY SURVEYS

Complete the daily surveys to be entered to win an awesome prize!
Be sure to check your email after the conference for a follow-up survey!

**SUNDAY,
AUGUST 4**



**MONDAY,
AUGUST 5**



**TUESDAY,
AUGUST 6**



**WEDNESDAY,
AUGUST 7**



**THURSDAY,
AUGUST 8**



**FRIDAY,
AUGUST 9**



MORE PRIZES TO WIN!

For two scholars who complete the Fuel Your Future Fair passport (Friday, 8/9)

Winners Announced on Saturday, August 10:

Team Votes: One scholar selected from each team for the following categories.

Voting takes place Friday 8/9.

- Scholar who demonstrated leadership skills
- Scholar who demonstrated creativity/imagination
- Scholar who demonstrated great teamwork skills
- Scholar most likely to time-travel
- Scholar most likely to save the world

Judge's Choice - Team Final Project

People's Choice - Team Final Project



Two Daily Survey Winners- Must complete daily survey to be eligible!

THANK YOU TO OUR BRONZE SPONSOR



MAKING A DIFFERENCE

At Wolfspeed, we believe everyone should have an opportunity to excel as we unlock a new era of energy efficiency. Our diversity and inclusion strategy is focused on cultivating a professional community that's reflective of our society and works to minimize opportunity gaps for underrepresented populations. Wolfspeed is pleased to support the important work of Project Fibonacci.



Powering the electrification of everything for a more sustainable future.

DAILY SCHEDULE - SUNDAY 8/4

TIME	ACTIVITY	LOCATION
12:30-2:30	STEAM Scholar Check-in Icebreakers	Hampton Inn
2:30-3:30	Hotel Room Check-ins By groups - Red, Orange, Yellow, Green, Blue, Purple	
3:30-4:00	Shuttle Transportation to Welcome Reception Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Tent
4:00-5:00	<p>Welcome Reception Sponsored by the Griffiss Institute</p> <p>Conference Overview: Tamlin Martin, <i>Executive Co-Chairperson</i></p> <p>ChatGPT Song Performance, Tara Day</p> <p>Curriculum Overview: Bob Bojanek, <i>Executive Co-Chairperson</i></p> <p>Welcoming Remarks: Dr. Andy Drozd, <i>Project Fibonacci Foundation & Chairman of the Board</i></p> <p>Welcome Message / Federal AI Policy Perspectives <i>Senator Chuck Schumer</i></p> <p>Keynote Introduction: Tim Thomas <i>Chief Academic Officer - Griffiss Institute</i></p>	Innovare
5:00-6:00	Keynote Presentation: Dr. Michael Hayduk	
6:00-6:15	Shuttle Transportation to Hotel Shuttle 1: R, O, Y Shuttle 2: G, B, P	
6:15-7:15	Dinner	Tent
7:30-10:00	Social Options: Gym, Pool, Scavenger Hunt 9:00 MVAS Stargazing	Hotel/Tent

DAILY SCHEDULE - MONDAY 8/5

TIME	ACTIVITY	LOCATION
8:00-9:30	Wake-Up Workshop: Morning Run/Walk Breakfast	Hotel
9:40-9:55	Shuttle Transportation to MVCC Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Tent
10:00-11:00	Workshop Block 1	MVCC
11:30-12:30	Workshop Block 2	
12:30-1:30	Lunch	Atrium
1:30-2:30	Keynote Presentation: Dr. Bill Daggett	Dining Hall
2:45-3:45	Workshop Block 3 Special STEAMPunk Workshop 2:45-4:45	MVCC
3:45-5:00	Project Development	Library / Common Areas
5:00-6:00	Dinner	Atrium
6:30-7:00	Keynote Presentation: Kay Firth-Butterfield <i>Sponsored by the UpMobility Foundation</i>	Dining Hall
7:15-7:30	Shuttle Transportation to Hotel Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Atrium
7:30-10:00	Project Development Social Options: Drum Circle with Lead by Rhythm Candy Bar Gym & Pool	Hotel / Tent
10:00	Curfew - All scholars must be in their rooms	

DAILY SCHEDULE - TUESDAY 8/6

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TIME	ACTIVITY	LOCATION
8:00-9:30	Wake-Up Workshop: Yoga Breakfast	Hotel
9:40-9:55	Shuttle Transportation to MVCC Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Tent
10:00-11:00	Workshop Block 1	MVCC
11:30-12:30	Workshop Block 2	
12:30-1:30	Lunch	Atrium
1:30-2:30	Workshop Block 3	MVCC
2:45-3:45	Workshop Block 4 Special STEAMPunk Workshop 2:45-4:45	
3:45-5:00	Project Development	Library / Common Areas
5:00-6:00	Dinner	Atrium
6:30-7:00	Keynote Presentation: Dr. Steven Novella	Dining Hall
7:15-7:30	Shuttle Transportation to Hotel Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Atrium
7:30-10:00	Project Development Social Options: Outdoor Game Night S'mores on the Patio Gym & Pool	Hotel / Tent
10:00	Curfew - All scholars must be in their rooms	

DAILY SCHEDULE - WEDNESDAY 8/7

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TIME	ACTIVITY	LOCATION
7:30-8:30	Breakfast - Wear Your PF Shirt Today!	Hotel
8:30-9:00	Shuttle Transportation to MVCC Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Tent
9:15-11:15	Special STEAMPunk Workshop	121A
9:15-10:00	Project Planning Panel	Dining Hall
10:15-11:00	Pitch Panel	
11:00-12:30	Project Development	Library / Common Areas
12:30-1:30	Lunch	Atrium
1:30-3:30	Off-Site Tours (Buses leave at 1:30!) Bus #1: MVCC Gaming Lab Bus #2: Munson Williams Proctor Art Institute Bus #3: Masonic Medical Research Institute	
3:30-3:45	Bus Pickup -> Uptown Theatre for Creative Arts	
4:00-5:00	The Science of Improv - Group Workshop <i>Devin Mahony & the Uptown Improv Company</i>	UTCA
5:00-5:30	Bus Transportation to Hotel - <i>Ride the same bus you arrived on!</i>	
5:30-6:30	Dinner	Tent
6:30-10:00	Project Development Group Photos Social Options: I, Robot - Outdoor Movie Night* with FunFlicks Snow Cones <i>Sponsored by TACNY</i>	Hotel / Tent
10:00	Curfew - All scholars must be in their rooms	

*Weather Permitting - Rain Date Thursday, August 8







DAILY SCHEDULE - THURSDAY 8/8

TIME	ACTIVITY	LOCATION
8:00-9:30	Wake-Up Workshop: Yoga Breakfast	Hotel
9:40-9:55	Shuttle Transportation to MVCC Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Tent
10:00-11:00	Workshop Block 1	MVCC
11:30-12:30	Workshop Block 2	
12:30-1:30	Lunch	Dining Hall
1:30-2:30	Workshop Block 3	MVCC
2:45-3:45	Workshop Block 4 Special STEAMPunk Workshop 2:45-4:45	
3:45-5:00	Project Development	Library / Common Areas
5:00-6:00	Dinner	Dining Hall
6:00-6:15	Shuttle Transportation to Hotel Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Atrium
6:30-10:00	Project Development Thank you Cards to Sponsors Social Options: Board Game Night & Oreo Tasting Gym & Pool	Hotel / Tent
10:00	Curfew - All scholars must be in their rooms	

DAILY SCHEDULE - FRIDAY 8/9

TIME	ACTIVITY	LOCATION
8:00-9:00	Breakfast	Hotel
9:00-9:20	Shuttle Transportation to MVCC Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Tent
9:30-11:30	Fuel Your Future Fair - <i>Don't forget to fill out your passport!</i>	Atrium
11:30-12:30	Project Development	Library / Common Areas
12:30-1:30	Lunch	Dining Hall
1:30-3:00	Final Project Development <i>All posters due by 3:00!</i>	Library / Common Areas
3:15-3:45	Shuttle Transportation to NTROPEE Hangar Shuttle 1: R, O, Y Shuttle 2: G, B, P	Meet in Atrium
4:00-5:00	Dress Rehearsal	NTROPEE Hangar
5:00-6:00	Dinner	
6:00-7:00	Special Presentation: Daring Data with Walker Smith & Jordan Wirfs-Brock	
7:00-8:00	Special Presentation: Engineering Wonders with Peter Boie	
8:00-8:15	Shuttle Transportation to Hotel Shuttle 1: R, O, Y Shuttle 2: G, B, P	
8:30-10:00	Social Options: Dance Party with DJ Della Ice Cream Social	Tent
10:00	Curfew - All scholars must be in their rooms	

DAILY SCHEDULE - SATURDAY 8/10

TIME	ACTIVITY	LOCATION
7:00-8:30	Breakfast - Bring Luggage to Conference Room <i>Dress to Impress!</i>	Hotel
8:30-8:45	Shuttle Transportation to MVCC Shuttle 1: R, O, Y Shuttle 2: G, B, P* *Poster Presenters from G, B, P - Take Shuttle 1	Meet in Tent
9:00-10:00	Poster Presentations <i>Your Parents & Families Will Arrive During This Time!</i>	Special Thank You:   
10:00-12:00	Final Project Performances In order: R, O, Y, G, B, P	
12:15-1:00	Closing Ceremonies <ul style="list-style-type: none"> Retrospective Video Award Ceremony Winning Teams Announcements 	 
1:00-3:00	Pizza Lunch for Scholars & Families! Photo Booth by Moment for Life 360 <i>A shuttle will return you and your family to the hotel to pick up luggage and check out of the conference</i>	
3:00	All scholars must depart by 3:00	Hampton Inn

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UPCOMING PROJECT FIBONACCI® EVENTS

3RD ANNUAL TAP INTO STEAM FUNDRAISER

September 16, 2024 (21+ Event)

Join us for an unforgettable evening at the 3rd Annual Tap Into STEAM Fundraising event hosted by the Project Fibonacci® Foundation, Inc. This year, we're teaming up with other local nonprofits to bring a night of fun and entertainment to Copper City Brewing Company, kicking off the Mohawk Valley Gives campaign.

STEAM Scholar parents and community members are invited to come together for an evening filled with live music, delicious food, refreshing cold beer, and a variety of exciting activities. From basket raffles to live auctions, there's something for everyone to enjoy. This is a fantastic opportunity to support local causes while having a great time with friends and family.

GIVING DAY

September 20, 2024

Giving Day, celebrated through Mohawk Valley Gives, is a highly anticipated event dedicated to fostering community support and generosity. This special day, taking place on September 20th, provides a unique opportunity for individuals to make a significant impact by contributing to our year-round STEAM education initiatives. Every dollar donated helps to inspire and empower the next generation of innovators, thinkers, and leaders in science, technology, engineering, arts, and mathematics. Your contributions, no matter the size, can help sustain and expand these vital programs, ensuring that students have access to the resources and opportunities they need to succeed. Please consider making a donation on Giving Day and be part of a collective effort to enhance educational experiences and drive positive change within the community.

3RD ANNUAL STEAM WOMEN RISING SYMPOSIUM

March 2025

The third annual symposium will feature a diverse lineup of inspiring speakers, hands-on workshops, and networking opportunities designed to empower and uplift the next generation of female innovators. Attendees will have the chance to explore the latest advancements in STEAM and to engage in meaningful discussions about the future of these fields. Whether you are a student eager to learn more about STEAM careers, a teacher looking for new resources to inspire your classroom, or a professional seeking to connect with like-minded individuals, the 2025 Symposium promises to be an unforgettable experience. Join us in celebrating the achievements of women in STEAM and be part of a community dedicated to fostering innovation and inclusivity.

7TH ANNUAL PROJECT FIBONACCI® STEAM LEADERSHIP CONFERENCE

Summer 2025

The Project Fibonacci® Foundation, Inc. is excited to announce its tentative theme for the 7th Annual STEAM Leadership Conference, *The Science of the Unknown*. The conference presents an intriguing exploration into the realms that straddle the borders of science and speculation. The week-long event will be an intellectual deep dive into a series of controversial topics that have perennially fascinated humanity. These topics ranged from the existence of extraterrestrial life and alien encounters to the depths of paranormal phenomena and the varied landscape of pseudo-sciences.

Throughout the conference, students will adopt dual perspectives as both skeptics and believers, a methodology that fosters an environment rich in critical thinking and open-minded debate. This approach enables participants to meticulously gather historical context, conduct forensic analyses, and ultimately, present their findings with a nuanced understanding of the complexities involved in such controversial subjects.

STEAM Scholars will present their outcomes in a manner that highlights not only the facts and figures associated with each topic but also the underlying human fascination with the unknown. These presentations are a testament to the idea that while science seeks to unravel the mysteries of the universe, the journey of exploration and the questions we ask along the way are equally important. In doing so, *The Science of the Unknown* will provide a valuable platform for future scholars to engage with the unknown, armed with a healthy balance of skepticism and curiosity.

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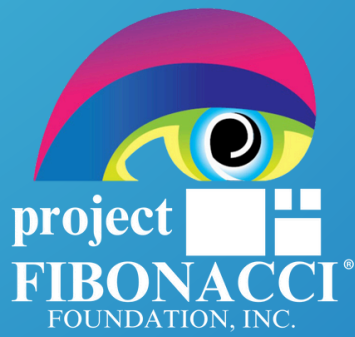


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