

FUTURE CITY COMPETITION
PHILADELPHIA REGION
JANUARY 30, 2021



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Thomas and Julie Gennaro



JENNIFER WETZEL
REGIONAL COORDINATOR

Welcome to Future City Philadelphia! We are super excited to see how our teams tackled the challenge of creating a city on the moon while also tackling virtual learning, collaboration, and competition. In such a crazy year we are thrilled that we were able to involve 30+ schools and over 600 students in our program. Thanks to our many sponsors, our hundreds of volunteers, and our dedicated Steering Committee. See you on the moon!



@FUTURECITYPHL



FUTURE CITY PHILADELPHIA



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2021 FUTURE CITY COMPETITION PHILADELPHIA REGION

SCHEDULE OF EVENTS

8:00 – 9:00 AM

Team Registration
Alan Shepard
Student Lounge

9:00 – 12:00 Noon

Preliminary Judging
Sally Ride Judging Hall

9:00 – 12:00 Noon

Special Awards Evaluations
Buzz Aldrin Exhibition Halls

12:00 – 1:15 PM

Lunch

1:15 PM

Announcement of Finalists
Michael Collins Auditorium

1:30 – 3:30 PM

Final Judging: Video Presentations,
Questions from Judges
Michael Collins Auditorium

3:30 – 4:30 PM

Awards Ceremony and Announcement
of Regional Winning Teams
Michael Collins Auditorium

Also, Thanks to our in-kind donation:

Urban Engineers, Inc. - Program Design

FINAL JUDGES

Kevin Brown, PE

Transportation Construction Manager
Urban Engineers

Kevin Brown is a construction manager for Urban Engineers, Inc. In this role he has served as a consultant during construction for clients such as the Pennsylvania Department of Transportation, the Pennsylvania Turnpike Commission, the Schuylkill River Development Corporation, and the New York City Economic Development Corporation. Mr. Brown is currently the transportation construction manager on the PennDOT I-76 Rehabilitation Project in Philadelphia. He has served as a civil engineering materials adjunct professor at The College of New Jersey. Kevin earned his bachelor's and master's degree in civil engineering from Widener University. Mr. Brown is a mentor and team leader for the ACE Mentor Program, a past-President of the American Society of Civil Engineers (ASCE) Philadelphia Section Younger Member Forum (YMF), and is currently a Director on the ASCE Philadelphia Section's board. In addition, he currently serves as the Vice President of the Engineers' Club of Philadelphia and is a member of the National Society of Black Engineers (NSBE), the Construction Management Association of America (CMAA), and the American Society of Highway Engineers (ASHE). Kevin was named the 2021 Delaware Valley Young Engineer of the Year by the Engineers' Club of Philadelphia.

Melissa Roth

Founder and Lead Researcher
Off Planet Research

Melissa Roth grew up in Boeing's backyard. She has always been fascinated with airplanes and travel. Several influential people suggested that she consider studying engineering because of her love of math. She began studying mechanical engineering at Saint Martin's University with the intent of joining Boeing after graduation. The switch to the space industry was unexpected but still follows her goals of getting her- and technology- off the ground. Ms. Roth has been instrumental in the design and construction of many of the unique processes used to produce one of the most critical materials in the aerospace industry. Ms. Roth joined Off Planet Research as a co-owner in 2017.

Joel C. Sercel, PhD

Founder
Trans Astronautica Corporation

Joel Sercel has over 30 years of NASA, industrial, other government agency, and academic experience and education all of which is directly related to space technology development and innovation. Dr. Sercel's professional experience includes a 14 year career at JPL; 12 years teaching, researching, and advising graduate students at Caltech in the area of space systems engineering; two years as a senior government official serving as the Chief Systems engineer of a \$22B Air Force communications satellite network (TSAT) leading a team of 122 systems engineers; several years as a private technology and management consultant; and most recently entrepreneurial leadership of a collaborative technology company, TransAstra, focused on ISRU technology. Dr. Sercel is a proven engineer, technologist, and innovator in diverse fields related to asteroid ISRU and the use of electric propulsion for small bodies exploration. Dr. Sercel's PhD in Mechanical Engineering at Caltech focused on applied plasma physics and electric propulsion technology. Dr. Sercel conceived of and initiated the NSTAR project (the first deep space solar electric propulsion system) and served as the first Principa Technologist of the NSTAR project.

Joseph R. Syrnick, PE, PLS

President & Chief Executive Officer
Schuylkill River Development Corporation

Joseph Syrnick is President & Chief Executive Officer of the Schuylkill River Development Corporation (SRDC), the lead agency for the redevelopment of the Tidal Schuylkill River. In partnership with public and private agencies, institutions and corporations, SRDC's core mission is to reconnect the river to the life and fabric of the city and region. Mr. Syrnick came to SRDC after a 34-year career with the City of Philadelphia, where he was Chief Engineer & Surveyor. He served 18 years as a Commissioner of Fairmount Park and is a member of the Philadelphia City Planning Commission where he currently serves as Vice-Chair. Mr. Syrnick is a graduate of Drexel University (BS in Civil Engineering in 1969; MSCE in 1971). He was 1997 Delaware Valley Engineer of the Year. Mr. Syrnick is a native Philadelphian and lives with his family in Roxborough. Mr. Syrnick was one of our Finals Judges for our first competition in 1996 and has continued to serve in that role for almost all of our competitions.

SCHOOL LIST

SCHOOL	STUDENTS	MENTOR	CITY NAME
Abrams Hebrew Academy Yardley, PA Ms. Amy Hamacher	Allison Goldfarb Hannah Kedar Ariel Shavit Layten Hoffman Tayla Weiss Aviel Zur		Y.A.R.E.A.C.H.
Beverly Hills Middle School Upper Darby, PA Mr. Kevin Stephan	Azhar Ali Thomas Hong Khandakar Mahin	Thomas Mitchell, PE Urban Engineers	Selencyonia
Central Jersey College Prep Somerset, NJ Ms. Nima Amin	Aabir Banerjee Kevin Benedict Chahel Kumar Saahithi Madiwada Sohum Sheth		Starling City
Cinnaminson Middle School Cinnaminson, NJ Mr. Garwood Bacon	Vincent Adonizio Ryan Driscoll Brendan Fratto Giovanni Lodise Sam Luecke Ava Sztenderowicz Taylor Wait	Ron Felder Lockheed Martin Space Systems Division	Galilei
Collingswood Middle School Collingswood, NJ Mr. Chad Meyers	James Birmingham James Coyle Nathan Durst Ajay Ostrem Jack Sinkarow Drake Suplee	Douglas Robbins AECOM	Gravity Hill
Congreso de Latinos Unidos Philadelphia, PA Ms. Alisa Best	Laila Alexander Geron Bines Alexandria Bristow Jessaray Hernandez Azaviyon Clark-Bolden Tamea Goodman Colon Zaidelez		Citadel Galactus City
Downingtown Middle School Downingtown, PA Mr. Derek Mastrangelo	Eva Lutz Abby Reynolds Kaylee Siggelkow	Tom Chmielenski Bentley Systems	Selene
Drexel Hill Middle School Drexel Hill, PA Mr. Harry Crossgrove	Reese Dicus Nicolas Fitzpatrick Sage Hoover Greg Reichard Nehemiah Liciaga Oyin Olowu Lorraine Smith Cole Williams	William Waldron AT&T	Arisite
East Norriton Middle School Norristown, PA Ms. Victoria Strickland	Lilea Burt Sara Charaoui Phillip Werner Tahlia Pascucci	Jennifer Warren, PE Langan	Moonhatten
Eisenhower Science and Technology Leadership Academy Norristown, PA Ms. Cyndie Mcgeehan	Terrance Chatman Winnee Phan Jordin Watkins Nathaniel Zanders Roscoe McGill	James Clark, CEM Clark Energy, Inc.	Moony

SCHOOL**STUDENTS****MENTOR****CITY NAME**

Great Valley Middle School Malvern, PA Ms. Kelly Eidell	Han Jeong Patrick Li Ritvik Topoji Varun Kartick Ethan Zhou	Daniel Hutton Urban Engineers, Inc.	Orpheus One
J.R. Fugett Middle School West Chester, PA Mr. Todd Saundurs	Erica Chen Sofia Fu Benjamin Gao Sejal Garg Matias Guzman Scherenberg Sophie Hechinger Nathaniel Mullin	Carlos Guzman Apple Leisure Group	Terraluna
Lionville Middle School Exton, PA Mr. Guy Raines	Praneil Balike Anushka Chakraborty Grace Janczak Anvita Kallam	Daisy Adams Bentley Systems	Arcollo
Mother Teresa Regional Catholic School King of Prussia, PA Ms. Sabrina Dwinnell	Adelina D'Acille Isabella Cooper Michelle John Sierra Martello Anna McCarel Sean Pearson		Selene City
Mount Aviat Academy Childs, MD Ms. Erin Dymowki	Emma Fausnaugh Charlie Fockler Nicholas Giannetta Eugene Klein Sienna Trumbull Aidan Venters Sarah Voigt	Teri Hanby	Lunatura
Murray Avenue School Huntingdon Valley, PA Ms. Denise Meyers	Brinda Dass Tamara Kohmann Liya Ma Gabrielle Truong	Greg Jakubowski Fire Planning Associates, Inc.	Moon Cocoon
NCCL School Newark, DE Mr. Jim Dooley	Danny Clark Rachel Durbano Kendra England Carlos Lobo Ry Sklar Eli Spaulding Rosy Sutherland	Donna Guzowski, PE Arora Engineers	Tecer-1
Peirce Middle School West Chester, PA Mr. Christopher Beatty	Ajay Anne Thomas Burke Madeline Crapo Caelen Ladd Sydney Munz Adam Pontzer Elle Price Chloe Steinborn	Michael Kissinger, PE Pennoni Associates	Soteria
Pottsgrove Middle School Pottstown, PA Ms. Debra Frasca	Caysen McAndrew Ezekiel Sheard Natalie Shovelton Lucille Wilson	Charles Nippert Widener University	D'matherine
Queen of Angels Regional Catholic School Willow Grove, PA Ms. Julie Gennaro	Maggie DeMarshall Catarina Kasmer Victoria Strybue Nicholas Tait	Tom Gennaro	Citta Bola

SCHOOL**STUDENTS****MENTOR****CITY NAME**

Radnor Middle School Radnor, PA Darcy DiGiacomo/ Stephen Smolen	Ivy Chaskelson Adeline Frank Tosh Freemann Defne Kazanci Fiaz Daroga Nadia Horchler Daisy Madden Lillian Reilly Kristin Spykerman	Jason Boris Bergmann PC	Eclipsia
Sacred Heart School Havertown, PA Ms. Maureen Travers	Thomas Flynn Aliva Khotha Keiko Nguyen Ryan Wimmer Sean Perri Armad Thomas Asante Thomas	Kyle Fink, PE Langan Engineering & Environmental Services	Dome City
St. Andrew Newtown Newtown, PA Ms. Tracy Boedewig	Brendan Bittman Sean Boedewig Nina Cowen William Gambel Anthony Bello Maddie Heine Ethan Marquette Emma Sabo	Mike McAtee, PE Urban Engineers	Crescent City
St. Cecilia School Philadelphia, PA Ms. Debra Brewster	Kyle Martyn Tom Nguyen Jeannette Piloto Kevin Riley	George Gaynor	Orbis Noctem
St. Hilary of Poitiers School Rydal, PA Ms. Kim Tingley-Kelley	Julia Burdick Louis Burdick Siena Dougherty Olivia Forkin Serena Gayle James McAleer Mary Vandegrift		Eclipse's Edge



Reflections from 2021: the Year of Zoom

My experience in Future City was something I have never experienced before in my life. Like every group project, the beginning was a bumpy and rough start. But once we got everyone working together and gave everyone jobs, things started to move more smoothly. And in the end, I am very proud of what we have accomplished together.

Brinda Dass – Student, Murray Avenue School

Being a part of Future City has changed my life in many ways. I learned how to be a leader. This experience has raised my confidence level and my skills. It was very nice to incorporate many different grade levels and students to make this Future City team. I will never forget this experience.

Ariel Shavit – Student, Abrams Hebrew Academy

Future City this year had many challenges but the hardest was working with the students remotely. Trying to engage students and give assistance remotely was the hard part. The students took a larger managerial role. They had to structure their time: we used Microsoft Teams chats, we had whole group meetings and they scheduled their own small group meetings.

Kelly Eidell – Teacher, Great Valley Middle School

The 2021 Future City Competition was like no other I have been a part of in the last 11 years. We have been fully virtual since the beginning of the school year. The students' excitement together plays off one another and I feel like it pushes them more to want to get the deliverables done. A blessing is that the technology was there to share SO much information with students.

Victoria Strickland – Teacher, East Norriton

Future City was an amazing experience. It allowed me to be creative and make up a dream world. At the beginning, coming up with ideas was difficult, but we came up with solutions to problems that we disagreed on. It was cool to understand how many factors go into a city, and how each part is equally important.

Tamara Kohmann – Student, Murray Avenue School

It was such a wonderful and fulfilling feeling to be able to contribute to an awesome and equally successful event for our future leaders.

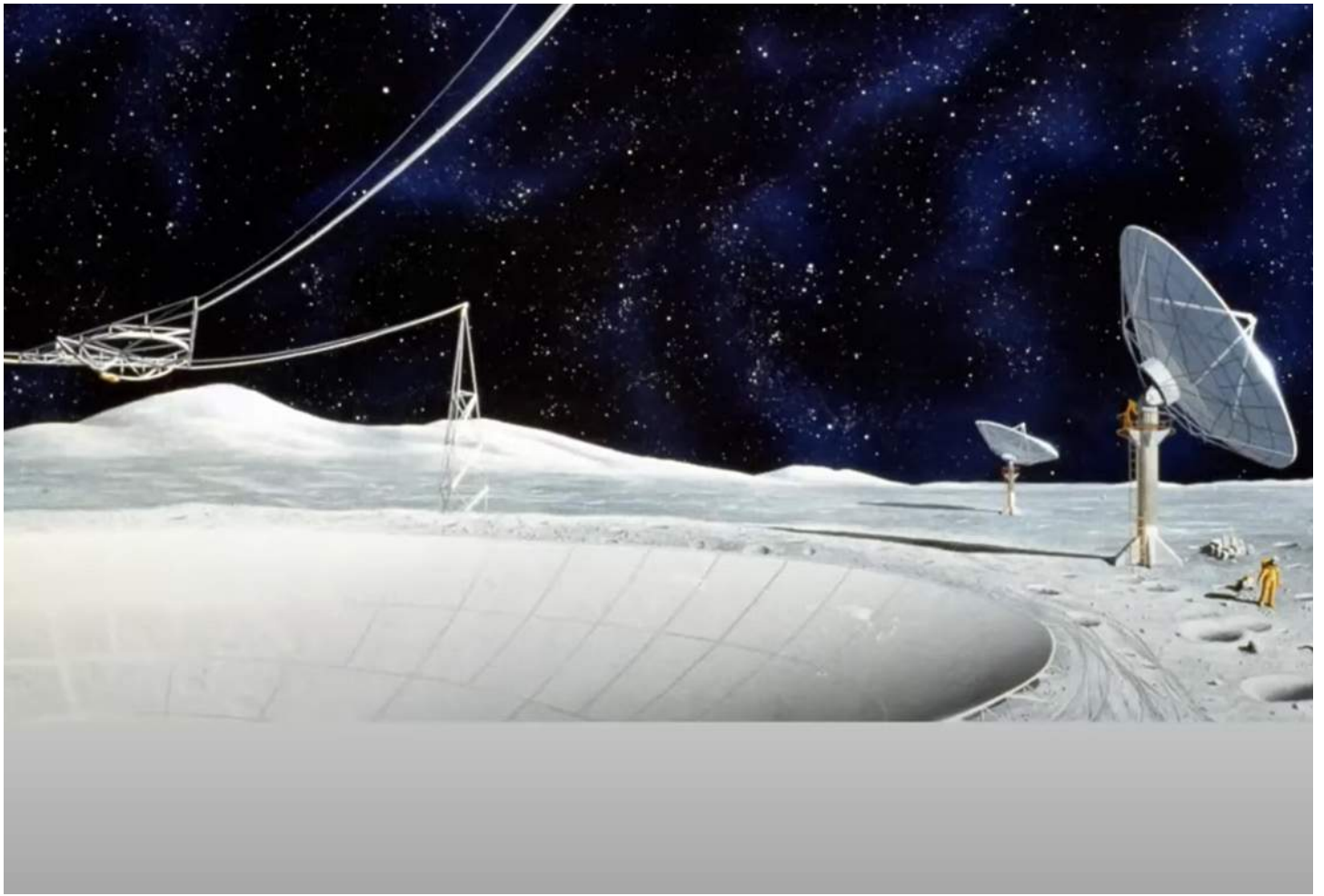
Eddie Henderson – Volunteer, PMI

I am happy to have had the opportunity to help facilitate this event. It was rewarding to see the presentations from such talented kids and dedicated teachers especially with the constraints due to the pandemic.

Priya Rajagopalan – Volunteer, PMI

As the tech guy for the Philadelphia Future City Competition, I had to create an online experience that was as much like the actual in person experience as possible. The result was Armstrong Hall and Zoom meetings with breakout rooms and a webinar for the finals presentation and award ceremony. I was so excited to see the teams and their models, it made all the work totally worth the effort. I can't wait to do it again, in person, next year.

Ken Golkin – Future City Philly Steering Committee



SPECIAL AWARDS



SPONSOR

AWARD

Bentley Systems, Inc	Best Use of Computer Technology
Pennoni	Innovative Environmental Management
Project Management Institute, Delaware Valley Chapter	Excellence in Project Management
Urban Engineers, Inc.	Best Civil Engineering Design
AECOM	Best Transportation Planning
American Society of Plumbing Engineers, Philadelphia Chapter	Innovative Plumbing Design
CVM Professional	Structural Integrity: Supporting our Future
Delaware Valley Regional Planning Commission	Regional Planning
Gilbane Building Company	Attention to Construction Details
Jacobs Engineering	Safety in Transportation
Langan Engineering & Environmental Services	Innovation in Sustainable Engineering
The Kirkman Oliver Company	Innovation in Workplace Design
American Society of Heating, Refrigerating and Air Conditioning Engineers, Philadelphia Chapter	Best Indoor Environment
American Society of Mechanical Engineers, Philadelphia Section	Best Moving Part
Arora Engineers, Inc.	Rethinking Infrastructure for Future Technology and IoT
Associated Engineering Consultants, Inc.	Best Thinking Outside the Box
Association of Energy Engineers, Greater Philadelphia Chapter	Best Energy-Based Project
Ballinger	Walter Ballinger Hope for the Future
Boles, Smyth Associates, Inc.	Sustainability and Transportation
Clemens Construction Company, Inc.	Ingenious Construction Techniques
Future City Steering Committee	In Memory of Thomas McGovern: Creative Electrical Distribution
International Society of Automation, Philadelphia Section	Sam Herb / Jack McGrath ISA Automation

International Society of Pharmaceutical Engineers, Delaware Valley Chapter	Chuck Clerecuzio Award for Innovation in Healthcare
KMJ Consulting, Inc.	Creative Surface Transportation on the Moon
L.F. Driscoll Company, LLC	Pride in Quality
National Fire Sprinkler Association, PenJerDel Chapter	Fire Sprinkler Water Delivery
Skanska USA Inc.	Innovative Construction Design
TA Instruments	Best Use of Materials
Target Building Construction	Construction Management
Advanced Infrastructure Design	The Best City-The Best Infrastructure
American Institute of Chemical Engineers, Delaware Valley Section	Most Sustainable Use of Lunar Materials
American Planning Association, PA Chapter, Southeast Section	Planning Excellence
American Society of Civil Engineers, Phila Section, Young Members Forum	Future World Vision
American Society of Highway Engineers, Delaware Valley Section	Transportation Infrastructure
American Society of Highway Engineers, Southern New Jersey Section	Excellence in Highway Engineering Design
American Water	Best Means of Supplying Water on the Moon
Institute of Electrical and Electronic Engineers, Philadelphia Section	IEEE Philadelphia Section
Institute of Industrial & Systems Engineers, South Jersey Delaware Valley Chapter	P. Robert Siebeneicher Industrial Engineering
Institute of Transportation Engineers, Mid-Atlantic Section	Most Innovative Transportation Concept
Intelligent Transportation Society of Pennsylvania	Best Transportation System
Jennifer Wetzel	Outstanding First Year Team
Ken Golkin, PMP	First Winners
Mary and Jim Moyer	Best Essay
Nancy Hall	James G. Hall, PE Memorial
National Association of Women in Construction	Family Friendly Neighborhoods
National Council of Examiners for Engineering and Surveying	Best Land Surveying Practices
P. Agnes, Inc.	Constructing for the Future
Pennsylvania Society of Professional Engineers, Delaware County Chapter	Best Coordination of Engineering Disciplines
Project Management Institute Educational Foundation	Best Future City Project Plan
Sally and John Kampmeyer	Attention to Engineering Education
Society of American Military Engineers, Philadelphia Post	Creative Application of Civil Works
Society of Fire Protection Engineers, Philadelphia-Delaware Valley Chapter	Fire Protection Engineering
Thomas and Julie Gennaro	Technics and Civilization



THANKS TO ALL OUR VOLUNTEERS & JUDGES!



CITY ESSAY JUDGE

Timothy Duncan - Jacobs
Travis Elwood - Ballinger
Lauren Jumper - Bentley Systems
Ellen Lewis - Bentley Systems
Scott Lowe - Trauner Consulting Services
Erin McDonald - KBR
Barbara Reisenwitz - Bentley Systems
Amanda Santosusso - Jacobs

COMPETITION SUPPORT AND ZOOM HOSTS

Caroline Kneafsey - Kinly

MODEL / PRESENTATION / Q&A JUDGES

Abhijeet Banode - Comcast
Kamila Buraczynski - Ballinger
Shitong Cao
Maggie Chase
Erin Coombs - Jacobs
Holly Cyrus - FAA WJHTC
Vince Demeis - Arora Engineers
Kimberlee Dengler
Kevin Gallen - Gallen Engineering
Dennis Gross - Pennsylvania Drug Discovery Institute
Ernest Harkness
Murray Kamara - Strada Architecture
David Knauer - STERIS Corporation
Vanessa Levy - Paragon Validation
Ryan Long - US DOT
Matt Ludwig - NV5
Laurie Matkowski - Gannett Fleming
Valerie Mebert
David Olszewski - Exelon Generation
Joseph Palombit - Penn Medicine
Peter Paton - P2 Structural Engineering
Andrew Potts - Jacobs
Meggie Reed
Andrea Salomon - Drexel Kline School of Law

Suzette Schultz
Allan Stock - Arora Engineers
Judi Subers - UGIES
Caroline Voigtsberger - Pennoni
Marilyn Zenko

SPECIAL AWARDS EVALUATORS

Abeer Al-Shammari - Advanced Infrastructure Design, Inc
Chris Altum - CRB Group
Joe Berger
Christyn Binder - Arora Engineers, Inc.
Michael Boles - Boles, Smyth Associates, Inc.
James Brady - STV Incorporated
Kevin Coll - CVM
Nichole Dantoni - Automated Engineering Services
Kaustav Das - Ballinger
Mike DeBellis - Jacobs
William Deguffroy - McMahan Associates, Inc.
Rachel DePan - Jacobs Engineering
Briana Earle - Langan
Onome Eghagha
Abraham El - Pennoni
Frank Ellis - National Fire Sprinkler Association
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Anna Gunn Golkin
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John Kampmeyer
Emily Koskey
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Alan Levy - Epee Education
Fränc Luu - Ballinger
Karen McManuels - Associated Engineering Consultants, Inc.

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ZOOM EXPERTS AND TECH GURUS

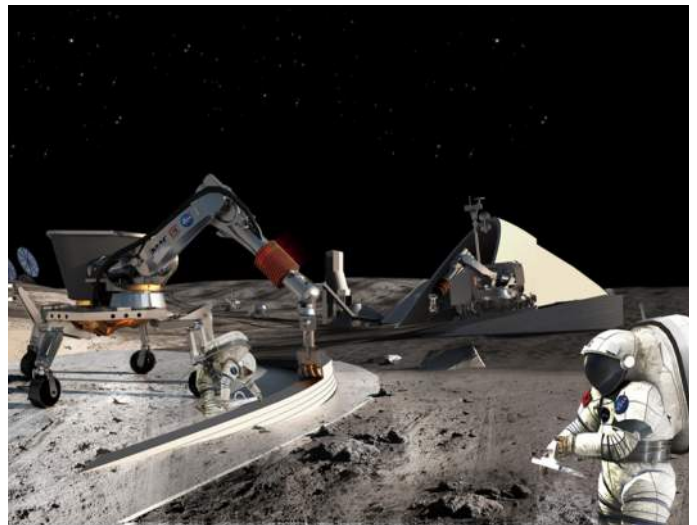
Jason Brown - PMI-DVC
 Jerzy Dutkiewicz- PMI-DVC
 Kyle Fink - Kelly & Close Engineers
 Ken Golkin - PMI-DVC
 Eddie Henderson- PMI-DVC
 Kathy Lajoie Malik- PMI-DVC
 Max Long - Pennoni Associates
 Joe Natale - DVRPC
 Priya Rajagopalan - PMI-DVC
 Audrey Wilson - PMI-DVC

PHOTOGRAPHER/VIDEOGRAPHER

Julia McAtee - Penn State University

FUTURE CITY PROGRAM / PUBLICATIONS

Aubrey Blackman - Urban Engineers
 Charlotte Hinton - Urban Engineers
 Jessica Weinstein - Urban Engineers



VOLUNTEER WITH FUTURE CITY!

Did You Know...

*75% of participants
said it boosted self-confidence.*

*83% reported they learned how to use
problem solving to address real-world problems.*

68% said they could see themselves as engineers someday.

85% of Future City participants see math and science in their future.

89% reported that they have a new appreciation for engineering and planning.



VOLUNTEERS NEEDED FOR THE 2022 COMPETITION

Judges, mentors and general volunteers are needed!

<https://www.futurecityphilly.org/fcvolops.html>

JOIN US AT THE OCTOBER 2021 FUTURE CITY ENGINEERING FAIR

Students will have a fun-filled morning of activities and demonstrations!

- Participate in a moving parts workshop where they will make a moving part in an hour that can be adapted for their model Future City.
- Listen to expert speakers regarding the competition's engineering challenge.
- Try out engineering activities sponsored by local engineering firms, technical societies & universities.
- Check out some of the best models from past competitions.

Learn more at: <https://www.futurecityphilly.org/engfair.htm>

THANKS TO THE FUTURE CITY STEERING COMMITTEE

REGIONAL COORDINATOR

Jennifer Wetzel

JUDGING COORDINATOR, SPONSORSHIP TRACKER EXTRAORDINAIRE, CMS GURU

Susan Best

SCHOOLS COORDINATOR, EDUCATOR EXPERT, T-SHIRT WRANGLER

Mary Moyer

ZOOM EXPERT #1 AND CONVENTION HALL CREATOR, SPEAKER FINDER AND WRANGLER, SPECIAL AWARDS GURU, WEBSITE AND SOCIAL MEDIA VIRTUOSO

Ken Golkin

VOLUNTEER COORDINATOR, STUDENT GIVE AWAY GURU

Karen McManuels

MENTOR COORDINATOR, PROGRAM BOOK COORDINATOR

Michael McAtee

PRELIMINARY JUDGING COORDINATOR, CMS EXPERT

Edwina Lam

ESSAY JUDGING COORDINATOR, JUDGE WRANGLER

Kristina Pumphrey

SPECIAL AWARD EVALUATOR, IDEA GENERATOR

Jim Brady

TREASURER EXTRAORDINAIRE

Helen Eck

SPONSOR RELATIONS COORDINATOR, SPECIAL AWARDS EXPERT

John Kampmeyer

SPONSOR RELATIONS EXPERT

Jim Cokonis

SECRETARY, ORGANIZER, EXPERT JUDGE

Sid New

SPECIAL AWARD COORDINATOR, LOGISTICS GURU

Kathy DeJohn

ZOOM EXPERT #2, OFFICIAL PEACEMAKER

Kyle Fink

SOCIAL MEDIA COORDINATOR

Bill Waldron

EXPERT MENTOR, ZOOM HOST

Max Long



PLEASE SUPPORT FUTURE CITY PHILADELPHIA

This event relies on the financial support of local companies, technical societies, and individuals. Our annual competition costs are approximately \$40,000 per year. We need continuing support of our past sponsors and we need new sponsors at any level so that we can continue to increase the reach of the Future City Competition - Philadelphia Region.



THANK YOU TO OUR 2021 SPONSORS:

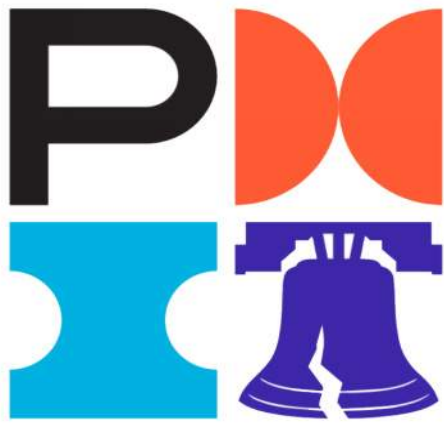
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All Individual Donations Appreciated

 **YouTube - FUTURE CITY PHILLY**



Project Management Institute® Delaware Valley

Vision

The PMI Delaware Valley Chapter will be recognized as a dynamic organization of project management professionals dedicated to serving the business and educational community of Delaware Valley Chapter through the advancement of project management.

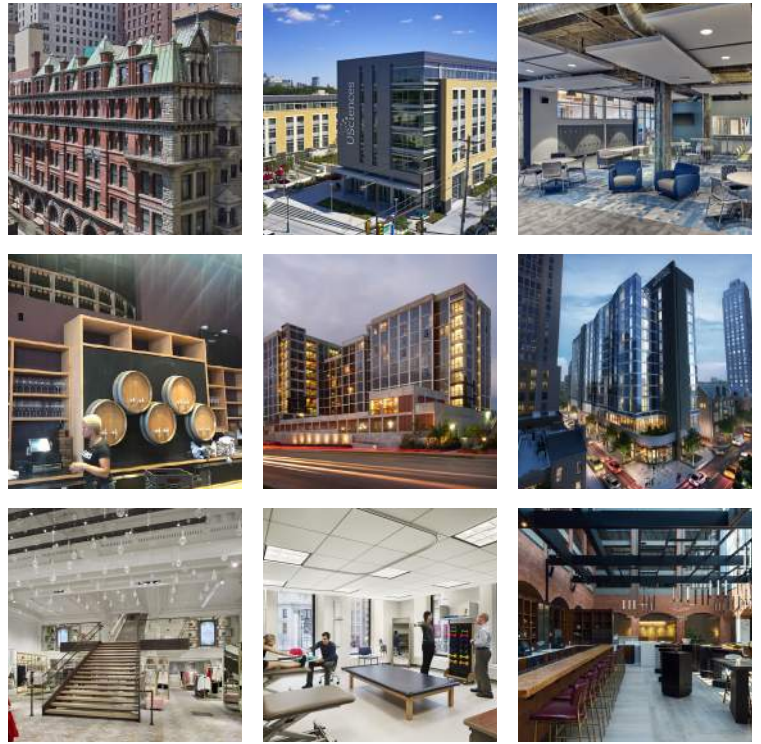
Mission

The PMI Delaware Valley Chapter will provide a forum for project management professionals to promote the principles of the Project Management Institute through networking with other project management professionals, sharing project experiences, providing and receiving training, and supporting project management professional in their certification efforts.

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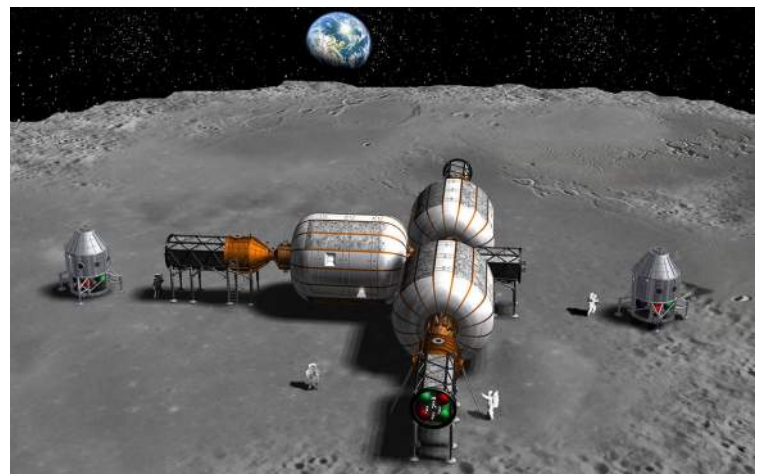
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