

ABOVE THE CURRENT



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Society of Fire Protection Engineers, Philadelphia Delaware Valley Chapter
Target Building Construction
Thomas and Julie Gennaro



JENNIFER WETZEL
REGIONAL COORDINATOR

Welcome to Future City Philadelphia! We're thrilled to have you join us at our Regional Competition to see what the engineers of the future will design and build for us. I'm especially excited to see how the teams designed their floating cities to stay "Above the Current." This year we introduced engineering to over 1000 students from all over the Philadelphia region. Thanks to our many sponsors, hundreds of volunteers, our dedicated Steering Committee, and Archbishop Carroll for making this competition a reality.



SCHEDULE OF EVENTS

8:00 – 9:00 AM
Team Registration and Model Set-up

9:00 – 12:00 Noon
Preliminary Judging

9:00 – 12:00 Noon
Special Awards Judging

12:00 – 1:15 PM
Lunch

1:20 PM
Announcement of Finalists

1:30 – 3:30 PM
Final Judging: Oral Presentations,
Questions for Judges

3:30 – 4:30 PM
Awards Ceremony and Announcement
of Regional Winning Teams

ALSO, THANKS TO OUR IN-KIND DONATIONS:

Urban Engineers, Inc. - Program Design

Bentley Systems - Student Giveaways

Herr's - Snack Donations

Wawa - Water bottles

FINAL JUDGES

Amanda Jean Hess



Dr. Amanda Jean Hess, PE, is an Assistant Research Professor at Villanova University in the Villanova Center for Resilient Water Systems where she works on the rewrite of the PA DEP Stormwater Manual and monitoring and research efforts of PennDOT's I-95 reconstruction project. Amanda's industry experience focuses on stormwater infrastructure in Philadelphia and implementation of smart stormwater controls in across the United States. Amanda received her Master's and PhD from Villanova University in 2014 and 2017, respectively, where she focused on quantifying evapotranspiration from rain garden plants.

Joseph Syrnick, President & Chief Executive Officer, SRDC



Joe serves as the President & CEO of Schuylkill River Development Corporation (SRDC), a lead agency for the redevelopment of the tidal Schuylkill River, Schuylkill Banks. In partnership with public and private agencies, institutions and corporations, SRDC's core mission is to revitalize and redevelop the lower Schuylkill River and reconnect it to the life and fabric of the city and region. Mr. Syrnick came to SRDC in 2005, after a 34-year career with the City of Philadelphia, where he had been Chief Engineer & Surveyor since 1986. He served 18 years as a Commissioner of Fairmount Park. Syrnick is a graduate of Drexel University (BSCE 1969; MSCE 1971) and is a registered professional engineer (PE) and professional land surveyor (PLS). In early 2008, Mayor Nutter named Syrnick to Philadelphia's City Planning Commission, where he currently serves as Vice-Chairman.

Robert Guy Traver, Ph.D., PE, D.WRE, F. EWRI, F. ASCE, Villanova University, Civil and Environmental Engineering



Robert is a Professor in the Villanova Department of Civil and Environmental Engineering, a Professional Engineer, and the founding Director of the Villanova Center for Resilient Water Systems. His over thirty years of research on green stormwater infrastructure is aimed to improve our engineering practices through understanding of the unit processes. Dr. Traver created the Stormwater Green Infrastructure Demonstration and Research Park at Villanova and is an associate editor of the ASCE Journal Sustainable Water in the Build Environment which he helped to create. Dr. Traver is a fellow of the American Society of Civil Engineering, and a Diplomat of the American Academy of Water Resource Engineers which he served as president. In 2007 he received the USACOE Outstanding Civilian Service Medal for his work on ASCE's External Review Panel (ERP) of the Corps investigation of Hurricane Katrina. He was a committee member of the National Research Council Committee that authored "Urban Stormwater Management in the United States" (2009), and coauthored the textbook Green Stormwater Infrastructure Fundamentals and Design (Wiley) More recently he was awarded the American Academy of Water Resource Engineer Outstanding Research and Innovation Award in 2023, and the ASCE University Water Resources Research Council Service Award (2024). Dr. Traver received his BSCE degree from the Virginia Military Institute, his MCE from Villanova, and his Ph.D. from The Pennsylvania State University.

SCHOOL LIST

SCHOOL/EDUCATOR(S)	STUDENTS	MENTOR(S)	FUTURE CITY NAME
Bala Cynwyd Middle School Bala Cynwyd, PA Shameeka Browne	Tamilore Adetokunbo Samaad Hill Zoey Jackson William Reliford	William Lordan Urban Engineers, Inc.	Phillatron
Blockson Middle School Norristown, PA Cyndie McGeehan	Oscar Gonzalez Chavez Harbyn Leinbach Mira Park Joshua Smith	Dawn Dayawon, PE Urban Engineers, Inc.	**Aeolia**
Central Jersey College Prep Somerset, NJ Nima Amin	Samarth Gaur Akshay Jagannathan Aryan Shah	Jimi Patel	Insula Natans
Cinnaminson Middle School Cinnaminson, NJ Garwood Bacon	Ethan Turner Benjamin Carroll Isabella Cerullo Colin Hyland	Dennis Link	Serenova
Congreso de Latinos Unidos Philadelphia, PA Alisa Best	Christina Dean Angel Delgado Christopher Diaz Done Shaniya Robinson	Michael Spain Philadelphia Center for Architecture and Design	Aqua-Caribbean
Downingtown Middle School Downingtown, PA Lisa Pershall	Robin Graham Viktoria Ihnatsiuk Claire Mullen Naomika Reddy	Tom Chmielenski Bentley Systems	Salacia
Drexel Hill Middle School Drexel Hill, PA Harry Crossgrove	McKenzie Allen Tiana Cain Cassidy Pieretti Thomas Rainey	William Waldron AT&T	Hydropolous
E.N. Peirce Middle School West Chester, PA Christopher Beatty	Elliot Aspite Sarah Stefanides Colon Truskey Wyatt Ziegler	Michael Kissinger Pennoni Associates	Lochanna Mora
East Norriton Middle School Norristown, PA Victoria Strickland	Danielle Bennett Max Darden Ethan Edmonds Juliana Hankerson	Jennifer Warren, PE Langan Matthew Edmond Montgomery County Planning Commission	A Vatninu
Eisenhower Middle School Norristown, PA Jamie Scavillo	Jayni Desai Jazmine Lockley Aiyana Williams Camilia Zarate Garcia	Dawn Dayawon, PE Urban Engineers, Inc.	ArcaDome
Great Valley Middle School Malvern, PA Marie Derby Katie Olafson	Tanvi Choudhari Stacey Jiang Phoenix Harrison Jai-Yi Zhi	Richard Gilly RPG Law Group	Aquapolis1
Holy Rosary Regional School Plymouth Meeting, PA Rae Morrow	James Ficaro Connell McGroary Giacomo Stabile Austin Stolzer	Veda Samhitha Duppalli, PhD CorePower Magnetics	Isola d'Italia
Howard Gardner Middle School Scranton, PA Kimberly Hoskins	Jonathan Cohen Iris Fahey Amelia Haw Aubrey Mace	Thomas Reilly Mack Trucks	Honeycomb Project

SCHOOL/EDUCATOR(S)	STUDENTS	MENTOR(S)	FUTURE CITY NAME
J.R. Fugett Middle School West Chester, PA Todd Saundurs	Arjun Gohel Kriti Grover Lillian Hall Vihaan Sharath	Daniel (Shawn) Turley	Frigusmira
Lionville Middle School Exton, PA Guy Raines	Vamika Baddela Akshara Prasad Shreyasi Sahoo Saumya Srinivas	Daisy Adams Bentley Systems	Elysium
Lower Moreland Middle School Huntingdon Valley, PA Denise Meyers	Landen Finkel Michael Khrizman Aubrey Odhner Jane Overberger	Greg Jakubowski Buckeye Partners	Pictopolis
Mother Teresa Regional Catholic School King of Prussia, PA Sabrina Dwinell	Caterina Cottini Erin Johnston Madison Quinn Blake Voris	John Caruolo, PE Caruolo Associates, Inc.	Urban-Tristique
Our Lady of Good Counsel Southampton, PA Donald Holton	Lydia Colavita Lucas Guerrero Miranda Hauptert Maura Lynch	Pace Milton	Paraekaoa
Paxon Hollow Middle School Broomall, PA Elise Miranda-Martin	Kayla Clunis Reeshon Das Colton Frese Charles Hall	James Clark Clark Energy	Καθαρό Νερό (Clear Water)
Pope John Paul II Regional Catholic Elementary School West Brandywine, PA Jill Wentzel	James Brady Ben John Eleanor Lauchian Sara Leahey	Jane Truong, EIT JMT	Fantastic Floating City
Pottsgrove Middle School Pottstown, PA Debra Frasca	Haley Andrews Zachary Hebert Allen Matthews Santana Miehike	Charles Nippert Widener University	Seaview City
Queen of Angels Regional Catholic School Willow Grove, PA Teena Ashar	Esther Coyle Ella Galbreath Lucy O'Rourke	Tom Gennaro	Coral Crest
Radnor Middle School Radnor, PA Stephen Smolen Brittany Stackhouse	Lilit Ayanian Wilson Li Varsha Pilla		Paradaiso Hou
Sacred Heart School Havertown, PA Lorraine Howley	Timothy Box Ritika Das Connor Leso	Bill Stevenson Target Building Construction, Inc.	Foggy Falls
School Lane Charter School Bensalem, PA Mandy Milich	Eliza Mathew Anna Titov Jayden Trinh	John Glowa Leonardo Helicopters	The Floating Sea City
Seriously Addictive Math Oaklyn, NJ Rebecca Muller	Grace Barber Olivia Lily Annabelle Neuman Pravith Sunkara		तैरता हुआ शहर "tairata hua shaha"

SCHOOL/EDUCATOR(S)	STUDENTS	MENTOR(S)	FUTURE CITY NAME
Springton Lake Middle School Media, PA Kevin Reilly	Julia Amezcua Aubrey Reinert Keely Schultz Benjamin Smith	Caroline McCallum NJ Clean Cities	Xtrique
St. Anastasia Newtown Square, PA Rebecca Woodland	Stella Corsanico Kiera Kane Emma Lynch Karis Ofofu	James Clark Clark Energy	Aquedon a Floating City
St. Andrew School, Drexel Hill Drexel Hill, PA Garret Rippert	Brayden Begley Alice Binda Owens Pierre Rafaella Sterling	Steven Goodsell, PE HNTB	The Soul of Seoul
St. Andrew School, Newtown Newtown, PA Tracy Boedewig	Emily Buls Sophia Ogundele Harrison Wisniewski Alyssa Yao	Michael McAtee, PE Urban Engineers, Inc. Kathryn Benson, PE Jacobs	Infinitia
St. Francis of Assisi School Norristown, PA Virginia Gomez	Samantha Flores-Lopez Alessandra Griffith Bernardo Orea-Castro Emily Perez-Jimenez	Allyson Radford, PMP Philadelphia International Airport	Mauveingends
St. Martin de Porres Catholic School Philadelphia, PA Shenene Fountain	Zoey Davis Vivian Roberts Malan Thompson Kadeem Washington	Avni Patel, PE Gilmore & Associates, Inc.	Vivere
St. Mary Interparochial School Philadelphia, PA Millie Cammisa	Lucia Cipparone Alex Julian John Koger Ben Zagacki	Madelyn Marquardt, EIT Urban Engineers, Inc. Rose Rinker, EIT Urban Engineers, Inc.	Novumare
TB Children's Services Fairless Hill, PA Jacqueline Breault-Straffe	Christian Straffe		Fairless Hills
Thomas Holme Elementary School Philadelphia, PA Lori Abernethy	Julia Abbott Makayla Marshall Jacob Mendoza-Pagan Meleha Virk	Matt Sherwood Louis Rodriguez Consulting	Isle of Bartholomew



SPECIAL AWARDS

Advanced Infrastructure Design **“Innovative Transportation Systems Award”**

AECOM **“Best Transportation Planning Award”**

American Institute of Chemical Engineers, Delaware Valley Section **“Best Water Resiliency Concept Award”**

American Planning Association, PA Chapter, Southeast Section **“Planning Excellence Award”**

American Society of Heating, Refrigerating and Air Conditioning Engineers, Philadelphia Chapter
“Best Indoor Environment Award”

American Society of Highway Engineers, Delaware Valley Section **“Transportation Infrastructure Award”**

American Society of Highway Engineers, Southern New Jersey Section
“Excellence in Highway Engineering Design Award”

American Society of Mechanical Engineers, Philadelphia Section **“Best Moving Part Award”**

American Society of Plumbing Engineers, Philadelphia Chapter **“Plumbing Design Technology Award”**

American Water **“Keep Life Flowing Award”**

Arora Engineers, Inc. **“Innovative Design Award”**

Association of Energy Engineers, Greater Philadelphia Chapter **“Best Energy-Based Project Award”**

Ballinger **“Net Zero Carbon Design Award”**

Bentley Systems, Inc. **“Best Use of Computer Technology Award”**

Boles, Smyth Associates, Inc. **“Sustainability in Transportation Award”**

Cedarville Engineering Group, LLC **“Best Water Management Award”**

Delaware Valley Regional Planning Commission **“Excellence in Regional Planning Award”**

Drexel University, College of Engineering **“Soaring Dragon Award”**

French & Parrello Associates **“Larry French Educational Excellence Award”**

Future City Steering Committee **“Team Choice Award”**

Gilbane Building Company **“Attention to Construction Details Award”**

Helen Eck **“In Memory of Thomas McGovern: Creative Electrical Distribution Award”**

Hunter Roberts Construction Group, LLC **“Most Creative Model Material Award”**

Institute of Electrical and Electronic Engineers, Philadelphia Section **“IEEE Philadelphia Section Award”**

Institute of Industrial & Systems Engineers, South Jersey Delaware Valley Chapter
“P. Robert Siebeneicher Industrial & Systems Engineering Award”

Institute of Transportation Engineers, Mid-Atlantic Section
“Most Innovative Transportation Concept Award”

Intelligent Transportation Society of Pennsylvania **“Best Transportation System Award”**

International Society of Automation, Philadelphia Section **“Samuel Herb Automation Excellence Award”**

International Society of Pharmaceutical Engineers, Delaware Valley Chapter
“Chuck Clerecuzio Innovation in Healthcare Award”

SPECIAL AWARDS

Jacobs Engineering **“Challenge the Accepted Award”**

Jennifer Wetzel **“Outstanding First Year Team Award”**

Ken Golkin, PMP **“First Winners Award”**

Langan **“Innovation in Sustainable Engineering Award”**

Mary and Jim Moyer **“Best Essay Award”**

Nancy Hall **“James G. Hall, PE Memorial Award”**

National Association of Women in Construction Philadelphia Foundation
“Family Friendly Neighborhoods Award”

National Council for Examiners for Engineering and Surveying **“Best Land Surveying Practices Award”**

National Fire Sprinkler Association, PenJerDel Chapter **“Fire Sprinkler Water Delivery Award”**

P. Agnes, Inc. **“Constructing for the Future Award”**

Pennoni **“Innovative Environmental Management Award”**

Pennsylvania Society of Professional Engineers, Delaware County Chapter
“Best Coordination of Engineering Disciplines Award”

Project Management Institute Educational Foundation **“Outstanding Future City Project Plan Award”**

Project Management Institute, Delaware Valley Chapter **“Best Example of Project Team Work”**

Pure Project Management **“Excellence in Project Management Award”**

Rodriguez **“Innovation in Infrastructure Award”**

Sally and John Kampmeyer **“Attention to Engineering Education Award”**

Skanska USA Inc. **“Sustainable Solutions Award”**

Society for Marketing Professional Services, Philadelphia Section **“Best Presentation Materials Award”**

Society of American Military Engineers, Philadelphia Post **“Best Team Effort”**

Society of Fire Protection Engineers, Philadelphia-Delaware Valley Chapter
“Fire Protection Engineering Award”

T&M Associates Foundation **“Innovation in Sustainable Civil Engineering Award”**

Target Building Construction **“Construction Management Award”**

Thomas and Julie Gennaro **“Technics and Civilization Award”**

Trefz Engineering **“Innovative Electrical Design Award”**

Urban Engineers, Inc. **“Technical Communication and Collaboration Award”**

Vicinity Energy Philadelphia, Inc. **“Excellence in Alternative Energy Award”**

Women’s Energy Network of Greater Philadelphia **“Most Creative Energy Sources Award”**

Women’s Transportation Seminar, Philadelphia Section **“Advancing Women in Transportation Award”**

THANKS TO THE FUTURE CITY STEERING COMMITTEE

REGIONAL COORDINATOR

Jennifer Wetzel, University of Pennsylvania

SCHOOL SUPPORT TEAM

School Coordinator - Mary Moyer, Retired
New Educator Support - Kelly Eidell, Retired

VOLUNTEER SUPPORT TEAM

Volunteer Coordinator - Jennifer Wetzel, University of Pennsylvania
Mentor Coordinator - Michael McAtee, Urban Engineers

JUDGING TEAM

Judging Coordinator - Susan Best, Retired
Preliminary Judging Co-coordinator - Kristina Pumphrey, Precis Engineering
Preliminary Judging Co-coordinator - Edwina Lam, AECOM
Preliminary Judging Assistant - Catherine Ellenberg, AECOM

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Sponsorship Support - Aubrey Blackman, MCFA

TREASURER

Kathy DeJohn, KMJ Consulting, Inc.

SECRETARY

Sid New, Retired

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Signage - Kristine Grimmett, AmeriHealth Caritas

SPECIAL AWARDS TEAM

Special Awards Coordinator - Ken Golkin, Retired
Assistant - Kristine Grimmett, AmeriHealth Caritas

PUBLICATIONS TEAM

Program Coordinator - Michael McAtee, Urban Engineers
Advertising/Program Layout - Aubrey Blackman, MCFA

PUBLIC RELATIONS TEAM

Public Relations Coordinator - Erin Baker, Siemens Energy
Social Media - Bill Waldron, AT&T
Website - Ken Golkin, Retired

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John Kampmeyer, Retired
James Cokonis, Retired
Helen Eck, Retired

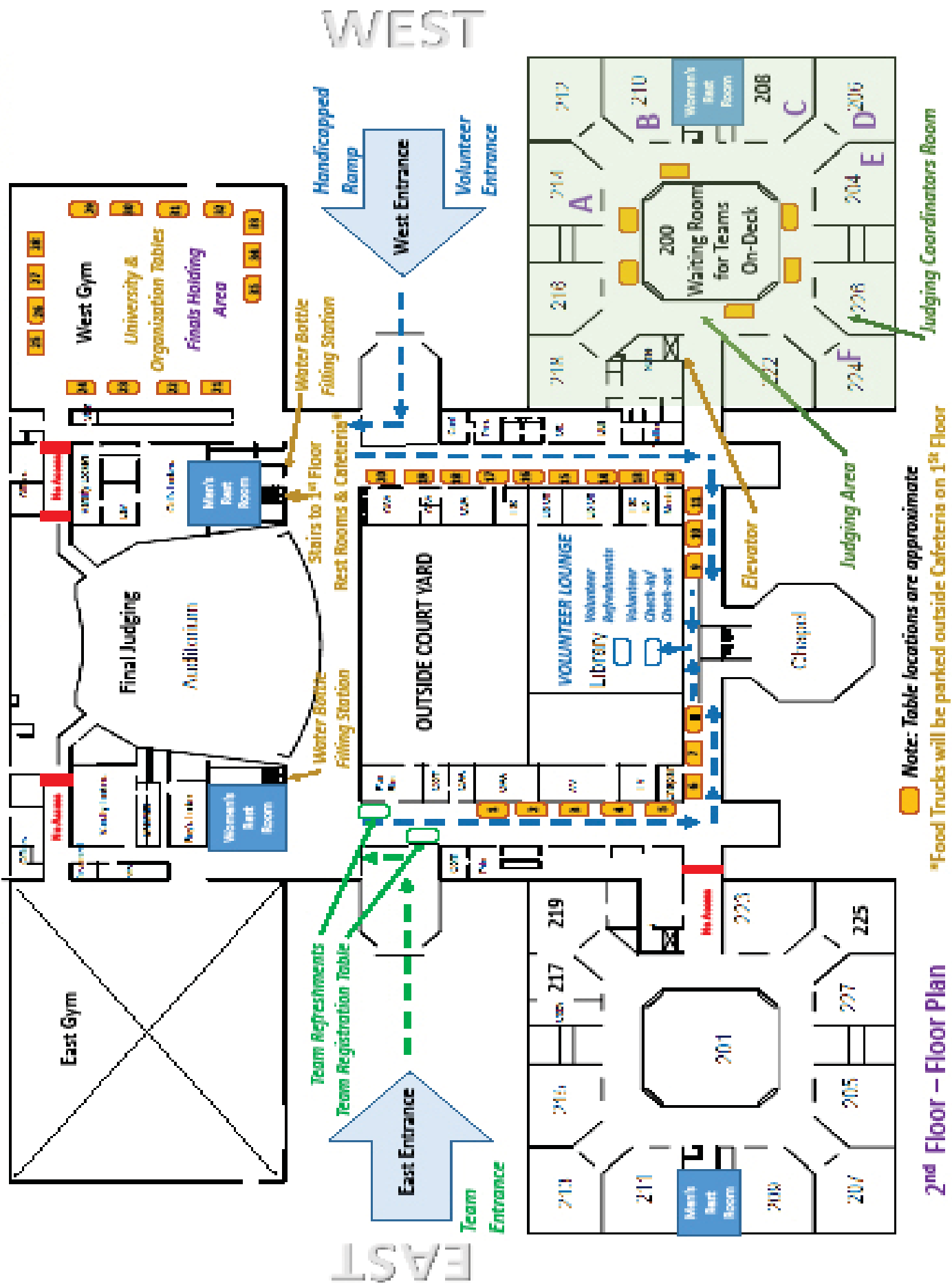
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Api Appulingam, City of Philadelphia
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Davila Assomo, Vicinity Energy
Danielle Baer, Urban Engineers
Yogesh Prasad Balajee, Siemens
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Marissa Martine, Campbell's Soup
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Erin McDonald
Thomas McNellis, Memory Matters: Brain and Memory Research
Shubham Metha, Northwest Bank
Padmajeet Mhaske, JP Morgan Chase
Steve Miller, Ballinger
Rajkumar Modake, Bank of New York Mellon
MujahidDeen Mohammed, Eagle Training Academy
Collin Mohr, Bowman
Ryan Monkman, Gilbane Building Company
William Montgomery, Philadelphia Gas Works
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Ganesh Nemade, SAP America
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Erich Weigert, Greene Tweed
Christine Wible, Jacobs
Frederick Willis

2nd Floor – Floor Plan

*Food Trucks will be parked outside Cafeteria on 1st Floor, underneath the West Gym



2nd Floor – Floor Plan

SCHOOL TABLE LIST

TABLE NUMBER	SCHOOL	TABLE NUMBER	SCHOOL
1	Bala Cynwyd Middle School	19	Paxon Hollow Middle School
2	Blockson Middle School	20	Pope John Paul II Regional Catholic Elementary School
3	Central Jersey College Prep	21	Pottsgrove Middle School
4	Cinnaminson Middle School	22	Queen of Angels Regional Catholic School
5	Congreso de Latinos Unidos	23	Radnor Middle School
6	Downingtown Middle School	24	Sacred Heart School
7	Drexel Hill Middle School	25	School Lane Charter School
8	E.N. Peirce Middle School	26	Seriously Addictive Math
9	East Norriton Middle School	27	Springton Lake Middle School
10	Eisenhower Middle School	28	St. Anastasia
11	Great Valley Middle School	29	St. Andrew School, Drexel Hill
12	Holy Rosary Regional School	30	St. Andrew School, Newtown
13	Howard Gardner Middle School	31	St. Francis of Assisi School
14	J.R. Fugett Middle School	32	St. Martin de Porres Catholic School
15	Lionville Middle School	33	St. Mary Interparochial School
16	Lower Moreland Middle School	34	TB Children's Services
17	Mother Teresa Regional Catholic School	35	Thomas Holme Elementary School
18	Our Lady of Good Counsel		



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 2026 COMPETITION

Judges, mentors and general volunteers are NEEDED!



VOLUNTEERS!



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 \$60,000 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.



SPONSORSHIP STARTS AT ONLY \$10

<https://futurecityphilly.org/Sponsorship.html>

All Individual Donations Appreciated



YouTube - FUTURE CITY PHILLY



Empowering Our Youth to be Future Leaders

Contributing to the communities where we live and work is an integral part of our business. We proudly support the **Future City Competition** and the work that you do to provide our youth with experiences that build courage, confidence, and character—qualities that will help them to succeed in life and contribute to society.

We believe in the power of project management to transform ideas into reality

As proud sponsors of Future City, we're excited to see young minds apply these principles to build a sustainable future. As the students embark on this exciting challenge, PMI-DVC is with them every step of the way.



As a proud sponsor for over 25 years, Urban Engineers is happy to continue its support of the Philadelphia Future City Competition and the engineers of tomorrow!



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FUTURE CITY PHILADELPHIA

Our Mission: To improve quality of life through acts of kindness, charitable outreach, educational programs, and social support in the T&M family and the communities in which we live, work and play.



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STEM Education



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- Providing technical and social meetings
- Promoting engineering achievements

Contacts:

asme.philadelphia@gmail.com

<https://linkedin.com/groups/4041263>

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ISPE Delaware Valley Chapter is proud to support the 2025 Philadelphia Future City Competition!

With more than 1,000 members, the Delaware Valley Chapter continuously offers new and innovative ways to serve the industry and our communities. The vast wealth of industry knowledge and talent in the region can provide you with the resources to grow your career—no matter what area of the industry you work or where you are in your education or career.

Learn more about upcoming events and become a member at: www.ispe.org/delaware-valley-chapter

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We're proud to support the annual Future City Competition, championing the transition to clean energy and shaping a sustainable future.

To learn more about Vicinity, visit vicinityenergy.us or email our energy experts at info@vicinityenergy.us



Pennoni is proud to support the 2025 Future City Competition



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ballinger

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**CONGRATS TO ALL
FUTURE CITY
TEAMS!**

...and
THANKS
to all
volunteers!



AECOM

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next generation

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Future City Competition 2025
Congratulations Participants!



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