



FUTURE CITY COMPETITION

PHILADELPHIA REGION

JANUARY 18, 2020



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* - 20+ Year Sponsor

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JENNIFER WETZEL
REGIONAL COORDINATOR

Welcome to Future City!

Our students have spent months creating their cities of the future and I am so excited to see the results! I'm especially interested to see how our over 1000 students from 55 schools tackled this year's theme of guaranteeing a reliable water source for all citizens. Thanks to our many sponsors, including our partners at Archbishop Carroll, our hundreds of volunteers, and our dedicated Steering Committee. Bring on the future!



@FUTURECITYPHL



FUTURE CITY PHILADELPHIA



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#FutureCityPhilly



2020 FUTURE CITY COMPETITION PHILADELPHIA REGION

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

1:15 PM

Announcement of Finalists

1:30 – 3:30 PM

Final Judging: Oral Presentations,
Questions from 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

Herr's - Snacks

Bentley Systems - Student Giveaways

Wawa - Ice Tea, Lemonade, and Fruit Punch

Tasty Baking Co. - Tastykakes

JOHN KAMPMEYER'S 25TH ANNIVERSARY REMINISCENCES

In 1995, Helen Eck, Susan Best, Jim Cokonis and I on behalf of the Delaware Valley Engineers Week Council applied to become a Regional Future City Competition site. We finally got the approval in the summer and we found we had a tiger by the tail, with all of the details necessary to run a competition of this scope. The big issue was contacting schools since the program was to start with the beginning of the school year. Luckily, the Pennsylvania Department of Education provided us with mailing labels for schools (it was 1995 so no email!).



Despite the late start, we had about 50 schools sign up including 20 from the Philadelphia School District. We didn't find out until later that an administrator assigned the program to these schools without asking teachers ahead of time. Needless to say, most of them never participated. The Blizzard of '96 caused some teams to give up, but finally, on a rainy day in January 1996, 17 teams came to the Franklin Institute for the first Philadelphia Regional Future City Competition. Many lessons were learned that day, including models that were too large to fit in their elevators without tilting and changing judging rooms to avoid having to move models along an open roof. We were thrilled that our winning team placed second at Nationals that year.

The program has lasted 25 years and we have had some exciting times along the way: numerous snowstorms on the day of the event (although only one full postponement and reschedule), seven different venues, countless team member changes due to illness, many models needing rebuild after transit, etc.

Those are only a few of my many reminiscences of my 20 years as Regional Coordinator. I have enjoyed all of the efforts and dedication of the Committee and Volunteers.

John E. Kampmeyer, P.E.
Regional Coordinator
1995 - 2015

A handwritten signature in cursive that reads "John E. Kampmeyer".



FUTURE CITY 1996 - THEN AND NOW...

I participated in the Future City Competition as a 12 year old 7th grader. Throughout the competition, my two teammates and I designed our city on Sim City (Classic!), researched and wrote our essay, and built our city model with at least 5 unique moving parts, lots of old toilet paper rolls, and a bottle of chrome spray-paint.

We spent hours, days and weeks together coming up with a great story about our city - researching the endless possibilities the future could hold, and choreographing our presentation. By the time the national finals was complete - 6 months after we started - I had learned a ton about engineering, teamwork and leadership, hands-on skills, and gained the confidence to stand in front of a room and talk about our work. It was too much fun! I couldn't imagine doing anything other than engineering after that. Aerospace engineering specifically, because the coolest moving part on our city model was an airplane in a holding pattern circling our city, Fluke.

I really enjoyed the teamwork and leadership aspect of Future City too, so the right path for me was to pursue engineering at the United States Air Force Academy. I reported to Basic Training when I was 17, graduated 4 years later, received two masters degrees in engineering, completed Test Pilot School, and I continue to serve as an engineer in the Air Force.



-Lt. Colonel Anna Gunn-Golkin



Pictured (left to right): Danny Montiel, Anna Gunn-Golkin, & Scott Halpern, 1996.

The Future Cities Competition helped me to develop the soft skills that I have found invaluable in my STEM career. The competition to me is more than just building a model or a city simulation. It involves writing an essay, responding to thoughtfully to questions and presenting, skills I use daily in my STEM career.

More importantly, Future Cities involves working with a team of peers, parents, teachers and engineers. Future Cities was my first experience working with passionate, talented people to achieve something great. Working in teams is a critical life skill which has allowed me to be successful throughout my STEM career. As a father, I look forward to the day that my kids will be old enough to participate in the Future Cities competition themselves.

After high school, I earned my BA in chemistry from Cornell University, PhD in physical chemistry from the University of California, Berkeley, and did a four year postdoc at Rockefeller University. I currently serve as a data scientist for New York City.



-Daniel Montiel



The Future City Competition holds a special place in my heart. I participated in the competition when I was in the 7th grade. The experience gave me my first exposure to engineering and science and the skill sets needed to succeed in these fields. The competition gave me an opportunity to engage in problem solving, design, hands-on building as well as oral and written presentation of my team's work. These skill sets are critical for success in the STEM fields.

In the years since the competition I have went on to pursue a career in the sciences. After graduating from high school, I went on to earn a B.S. degree from University of Maryland in Biochemistry. I then earned an M.S. in Organic Chemistry from the University of California, Irvine. For the past 11 years I have been involved in drug discovery research in the pharmaceutical industry. I am currently working on identifying new treatments for heart failure.

In my view, the two most important qualities needed for success in the STEM field are creativity and perseverance. Applying your creativity is important for problem solving. It is also important to realize that there is a lot of failure in the sciences. It is important to remain positive, learn from your mistakes and continue to persevere until you can accomplish your goal.



- Scott Halpern, MS



FINAL JUDGES

Suzanne Chiavari, PE

*Engineering Director – Treatment and Asset Resiliency
American Water*

Suzanne Chiavari serves as an Engineering Director for American Water, the nation's largest investor owned water & wastewater utility. In this role, she is one of the company's technical experts in areas of critical importance to the company's water and wastewater operations. Her expertise includes building resiliency and managing critical infrastructure. Most recently, she has led American Water's effort to develop a lead service line replacement program and has participated in the Lead Service Line Replacement Collaborative. Ms. Chiavari holds a BS in chemical engineering and an MS in environmental engineering from Drexel University. She serves on the South Jersey board of Junior Achievement NJ, and Drexel University's President's Council on Energy and the Environment. Ms. Chiavari was named a Woman of Distinction by the Philadelphia Business Journal and named to Drexel University's College of Engineering Alumni Circle of Distinction. She often volunteers her personal time and energy to promote interest in STEM careers. Ms. Chiavari was one of our Model and Presentation Judges for our first competition in 1996 and for the next few years was our Volunteer Coordinator. Welcome back, Suzanne.

Robert Hicks

*Chief Operating Officer
Delaware River Port Authority*

Robert Hicks is the Chief Operating Officer for the bi-state Delaware River Port Authority (Pennsylvania and New Jersey). He is an internationally recognized expert on transportation, technology, infrastructure, urban policy and planning issues having spoken and moderated sessions at the American Public Transit Association, National League of Cities, National Association of Counties, Mayors' Asia Pacific Environmental Summit and United Nations and World Bank conferences just to name a few. He recently consulted as a Sr. Policy Advisor on international transportation and trade matters for the Secretary of Transportation, U.S. Department of Transportation. He earned a Bachelors of Science in Civil Engineering from Howard University and Masters in Engineering Administration from The George Washington University. Mr. Hicks is a native of Philadelphia.

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. Thank you, Joe, for your long-time service



SCHOOL LIST



TABLE NO. SCHOOL STUDENTS MENTOR CITY NAME

1	All Saints Catholic School Elsmere, DE Mr. Brandon Dougherty Ms. Susan Small	Charlie Brecht Olivia Piorkowski Sarah Ross Brianna Tokarski	Matthew Harris Wilmington Dept. of City Planning & Development Donna Guzewski Arora Engineers	Sorabyu
2	Beverly Hills Middle School Upper Darby, PA Mr. Kevin Stephan	Ivsan Chowdhury Allan Guerra-Lucero Tyler Pfrommer Konstantine Papakonstan- tinou	Thomas Mitchell, PE Urban Engineers	Rua Hapori
3	Blair Christian Academy Philadelphia, PA Ms. Willette Whitaker	Kalisha Hall Caleb Smith Jada Boynton Endiya Dodd	Derrick Whitaker, PE Burns Engineering	Fraternamor
4	Central Jersey College Prep Somerset, NJ Ms. Nima Amin	Saahithi Madiwada Varun Ramanathan Sohum Sheth	Jimi Patel Becton Dickinson	Delta Land Mount
5	Cinnaminson Middle School Cinnaminson, NJ Mr. Garwood Bacon	Leela Colley Sean Gilmore Andrew Mozi Bharat Elango	Orla Pease, PE AECOM	New Asherah

**TABLE
NO.****SCHOOL****STUDENTS****MENTOR****CITY NAME**

TABLE NO.	SCHOOL	STUDENTS	MENTOR	CITY NAME
6	Collingswood Middle School Collingswood, NJ Ms. Carol Johnson	Tonio Guglietta Astrid Lobanov Lilia Shinkarow Paul David Bogan, III	Douglas Robbins AECOM	Paradise Valley
7	Downingtown Middle School Downingtown, PA Mr. Derek Mastrangelo	Paige Haltom Bridget Rymer Faith Tuffner Jasmine Michel	Tom Chmielenski Bentley Systems	Nymphaea
8	Drexel Hill Middle School Drexel Hill, PA Mr. Harry Crossgrove	Sophie DeMott Alice Dobbins Rita Dobbins Jack Ford	William Waldron AT&T	Kibotoshi
9	East Norriton Middle School Norristown, PA Ms. Victoria Strickland	Mackenzie Keller Alexandra Carpenter Alana Echevarria Sarah Dewane-Malonoski	Jennifer Warren, PE Langan	Mustaqbalina
10	Great Valley Middle School Malvern, PA Ms. Kelly Eidell	Dean Dessender Brighton Risch Jacob Taylor Nikhil Kotikalapudi	Garrett Browning, PMP Project Management Institute	Terra Alba
11	Holy Angels Newark, DE Mr. David Hughes	Dominic Ingle Emma Shaner Caroline Shelman Mckenzie Roy	Mark Neimeister Water Department City of Newark	Angel City
12	Holy Rosary Regional School Plymouth Meeting, PA Ms. Rae Morrow	Danica Borzillo Ella Peticca Ava Valleau Hudson Haley	Judi Subers, CEP Tara Pasca Concord Engineering	The City of Thirteen
13	Independence Charter School Philadelphia, PA Mr. Gregory Schanne	Imara James Anna Diemer Xen Gadsden Bamba Babou	Amber Reimnitz Michael Baker	Schanneville
14	J.R. Fugett Middle School West Chester, PA Mr. Todd Saundurs	Matias Guzman-Scheren- berg Sneha Mahadevan Nathaniel Mullin Sophia Fu	Carlos Guzman Apple Leisure Group	Saka Danu
15	Lehigh Area Middle School Lehigh, PA Ms. Courtney Schleicher	Isaac Carpenter Emma Bonser Aidan Albert Asa Andrew		Indians
16	Lionville Middle School Exton, PA Mr. Guy Raines	Ramy Elgindi Simran Sahoo Naishu Vytia Camille Klingen	Daisy Adams Bentley Systems	Adaloquo
17	Maria Kaupas Academy Scranton, PA Ms. Annie Hounsokou	Julia Bergman Dominic Huffman Judah Donnelly Bruno Lefler	Matthew O'Donnell	Guadalupe City
18	Montgomery County OIC Norristown, PA Ms. Shae Ashe	Jada Healy Tiyonna Hollinger Tahsean Wright		Celebration City

**TABLE
NO.****SCHOOL****STUDENTS****MENTOR****CITY NAME**

19	Mother Teresa Regional Catholic School King of Prussia, PA Ms. Sabrina Dwinell	TJ Gannon Aidan McCarel Isabella Cooper Jacqueline Perry		Vattenville
20	Mount Aviat Academy Childs, MD Ms. Teri Hanby	Lillian Beverung Elizabeth Drost Gavin Patterson Hannah Trainer	Jeffery Landis Maryland Environmental Service	Vannby
21	Murray Avenue School Huntingdon Valley, PA Ms. Denise Meyers	Maggie Ruan Samantha Horsnall Mia Peng Julie Zesinger	Greg Jakubowski Fire Planning Associates, Inc.	Peppopolis
22	New Hope Solebury Middle School New Hope, PA Ms. Meka Chuma	Rayna Pherwani Willard Tresler Maria Kesisogolou Theo Petrey	Lynne Cavanagh	Mukjizat City
23	Peirce Middle School West Chester, PA Mr. Christopher Beatty	Grace Hutto Elle Price Lauren Zisk Avery Wood	Michael Kissinger, PE Pennoni Associates	Padaja Miasto
24	Penn Wood Middle School Darby, PA Ms. Susan Chan-Peter	Sumaiyya Griggs Abner Roberts Charlie Tong Marissa Prescod		Shark Town
25	Pottsgrove Middle School Pottstown, PA Ms. Debra Frasca	Joseph Killen Vivian Phillips Tyler Trexler Rocco Spinozzi-D'Andrea	Charles Nippert Widener University	Lunarium
26	Queen of Angels Regional Catholic School Willow Grove, PA Ms. Julie Gennaro	Maximo Machado Pheodora Kasmer Zoey Lanahan Sarafina Keefe	Tom Gennaro Lockheed Martin	Tenochtitlan
27	Radnor Middle School Radnor, PA Ms. Darcy DiGiacomo / Mr. Stephen Smolen	Natalie Dumin Renatka Kozlowska Liam Spykerman Rona Liu-Zhong	Jason Boris Bergmann PC	Amelani
28	Sacred Heart School Havertown, PA Ms. Maureen Travers	Emma Greenwood Kaitlyn McCann Connor Reynolds Declan Cleary	Kyle Fink, EIT Kelly & Close Consulting Engineers & Surveyors	Tides of the Triangles
29	St. Albert the Great School Huntingdon Valley, PA Mr. John Schrenk	Alessia Bianachimano Madison Ruddick John Wescott Kieran Murtha		Paanee
30	St. Aloysius Academy Bryn Mawr, PA Ms. Julianne Long	Max Kline James Hoffman Francis DeAngelo	Robert DeLucca	Cistavoda
31	St. Anastasia School Newtown Square, PA. Ms. Carrie Erdlen	Theresa Stolarczyk Kevin DeAngelo Chase McKeown Danny Lain	James Clark, CEM Clark Energy, Inc.	Tychia

**TABLE
NO.**

SCHOOL

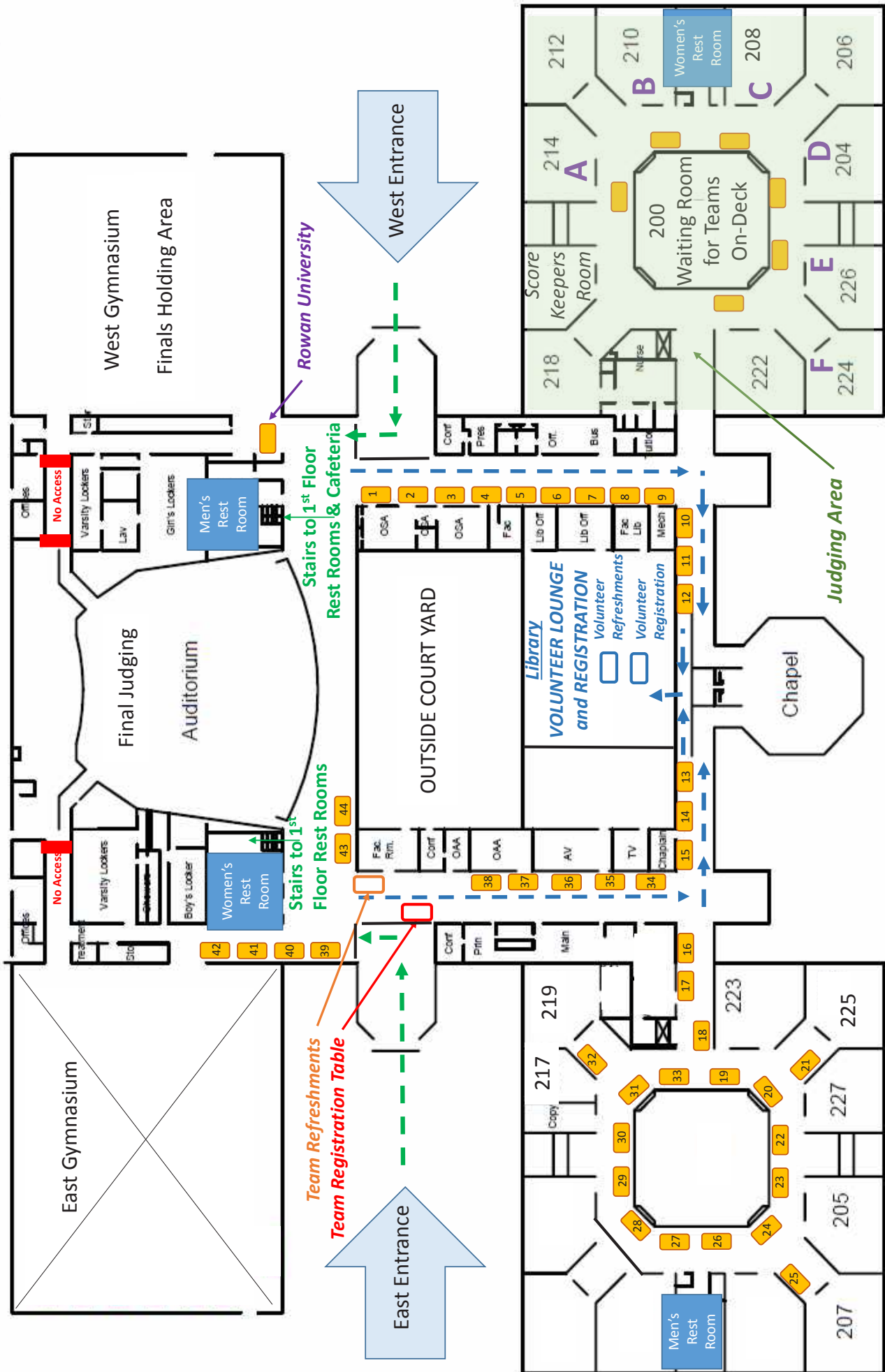
STUDENTS

MENTOR

CITY NAME

32	St. Andrew Newtown Newtown, PA Ms. Tracy Boedewig	James Chiarlanza Dominic Gallo Akshay Frabizzio Jackson Heine	Mike McAtee, PE Urban Engineers	Purity
33	St. Andrew School Drexel Hill, PA Ms. Gabrielle Perry	Skylar Dittbrenner Eric Dougherty Jilian Elefante Sameeha Ershad	Kris Dolcemore	Canal d'amour
34	St. Cecilia School Philadelphia, PA Ms. Debra Brewster	Luke Brandi Brennan Dillenbeck Brian Raskauskas Daniel Brady	George Gaynor	Gemma Pacificus
35	St. Helena School Blue Bell, PA Ms. Karen Holder	Molly Cherico Kelly Gallagher Giovanni Merona Santiago Sanchez	Paul Laub	Bella Alma
36	St. Hilary of Poitiers School Rydal, PA Ms. Kim Tingley-Kelley	Olivia Forkin Siena Dougherty Kaitlyn Ryan Jim McAleer		H2Opia
37	St. Ignatius of Antioch Catholic School Yardley, PA Ms. Mary Casey	Preston Abitz Meredith Czyn Lily Eliason Sophia deJesus		Aquatropolis
38	St. Jane Frances de Chantal School Easton, PA Ms. Amie Schroeder	Sandra Atileh John Paul Pierce Richard Hrazanek Jillian Latvis	Thomas Reilly Mack Trucks, Inc.	Schroederville
39	St. Martin de Porres Catholic School Philadelphia, PA Ms. Shenene Fountain	Gianna Hawkins Khorron Mack Mataya DeLeo Sienna Kelly	Al Beatty, Camden Palvino, Kelsey McElduff DVRPC	Fountain City
40	St. Mary Interparochial School Philadelphia, PA Ms. Millie Cammisa	Lindsay McGinley Zoe DePaul Michael Rachubinski Paul Ricchiuti	Spencer Finch, PE Langan	Eventide
41	Stewart Middle School Norristown, PA Ms. Jamie Scavillo	Mamadouh Bah Jonathan Harris Alex Rojas-Romero Elijah Salas	Ronald Felder Lockheed Martin Space Systems Division	Portland 2.0
42	Stratford Friends School Newtown Square, PA Ms. Shelley Mansky	Ari Ghosh Leo Campbell-Sydor Gavin Briddes Amanda Cannon	Lunal Khuon, AIA Always By Design, Architecture	Green Somalia
43	The Anderson School Eagleville, PA Mr. Francis Boyle	Michael Tharin Mahki Hinton Shannon Buffill Amanda Callison		Anderson
44	Thomas Holme Elementary School Philadelphia, PA Ms. Lori Abernethy	Sophia Perez Syncere Torres Fatima Virk Adess Ayala	Matt Sherwood Louis Rodriguez Consulting	Riverview

2nd Floor – Floor Plan



Note: Table locations are approximate

2nd Floor – Floor Plan



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Bentley Systems, Inc	Best Use of Advanced Technology
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Project Management Institute, Delaware Valley Chapter	Excellence in Project Management
Urban Engineers, Inc.	Best Civil Engineering Design
AECOM	Best Transportation Planning
Clemens Construction Company, Inc.	Ingenious Construction Techniques
CVM Professional	Structural Integrity: Supporting our Future
Delaware Valley Regional Planning Commission	Regional Planning
Friends of Thomas and Julie Gennaro	Most Innovative Power Grid
Gilbane Building Company	Attention to Construction Details
Hunter Roberts Construction Group, LLC	Most Creative Model Material
International Society of Pharmaceutical Engineers, Delaware Valley Chapter	Innovation in Healthcare
Jacobs Engineering	Safety in Transportation
Langan Engineering & Environmental Services	Innovation in Sustainable Engineering
Skanska	Innovative Construction Design
The Kirkman Oliver Company	Innovation in Workplace Design
American Society of Mechanical Engineers, Philadelphia Section	Best Moving Part
American Society of Plumbing Engineers, Philadelphia Chapter	Plumbing Technology
Arora Engineers, Inc.	Rethinking Infrastructure for Future Resiliency
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
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National Fire Sprinkler Association, PenJerDel Chapter	Fire Sprinkler Water Delivery
TA Instruments	Best Use of Materials
Target Building Construction	Construction Management
Advanced Infrastructure Design	Best Use of Materials for Infrastructure Design
American Institute of Chemical Engineers, Delaware Valley Section	Best Sustainable Process Lifecycle Design
American Planning Association, PA Chapter, Southeast Section	Planning Excellence
American Society of Civil Engineers, Phila Section, Young Members Forum	Dream Big
American Society of Heating, Refrigerating and Air Conditioning Engineers, Philadelphia Chapter	Best Indoor Environment
American Society of Highway Engineers, Delaware Valley Section	Best Infrastructure
American Society of Highway Engineers, Southern New Jersey Section	Best Application of Innovative Highway Features
American Water	Most Resilient Water System
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	Most Innovative Transportation System
International Code Council, Liberty Chapter	Best Life Safety Practices
Jennifer Wetzel	Outstanding First Year Team
Ken Golkin, PMP	First Winners
KMJ Consulting, Inc.	Accommodating Pedestrians with Disabilities
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
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!



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Soujanya Tirumalai - AECOM Technical Services Inc
Liz Trumbull - Eastern State Penitentiary Historic Site, Inc.
Roman Ventura - Datwyler Pharma Packaging International
Xinliang Zhang - Villanova University
Chuanming Zhang - Jacobs Engineering



VOLUNTEER WITH FUTURE CITY!

Did You Know...

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

57% said Future City helped them in their other classes.

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

68% said they could see themselves as engineers someday.

89% reported that they have a new appreciation for the engineering and planning that goes into a city.

75% said it boosted their self-confidence.



VOLUNTEERS NEEDED FOR THE 2021 COMPETITION

Judges, mentors and general volunteers are needed for the 2021 Future Competition!

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

THANKS TO THE FUTURE CITY STEERING COMMITTEE

REGIONAL COORDINATOR

Jennifer Wetzel

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Karen McManuels

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Mary Moyer

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Charlotte Hinton

Michael McAtee

Aubrey Blackman

PROGRAM COVER ARTIST

Jessica Weinstein

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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.



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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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Learn more about becoming a member at:
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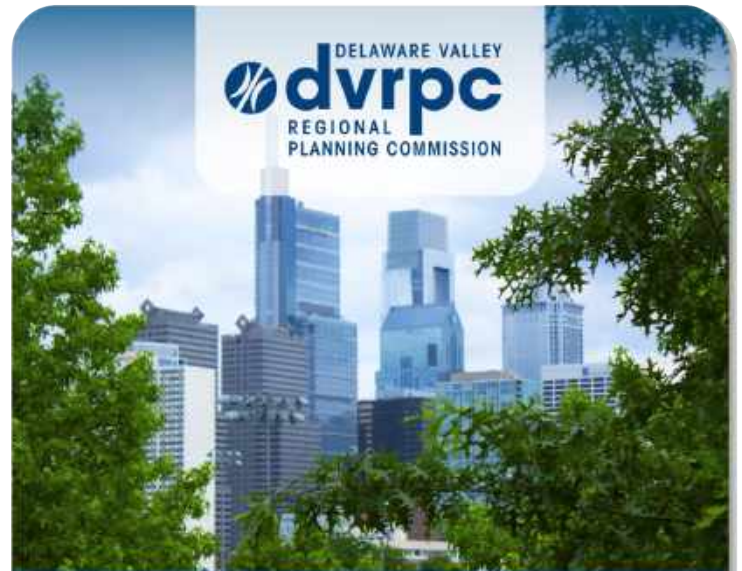
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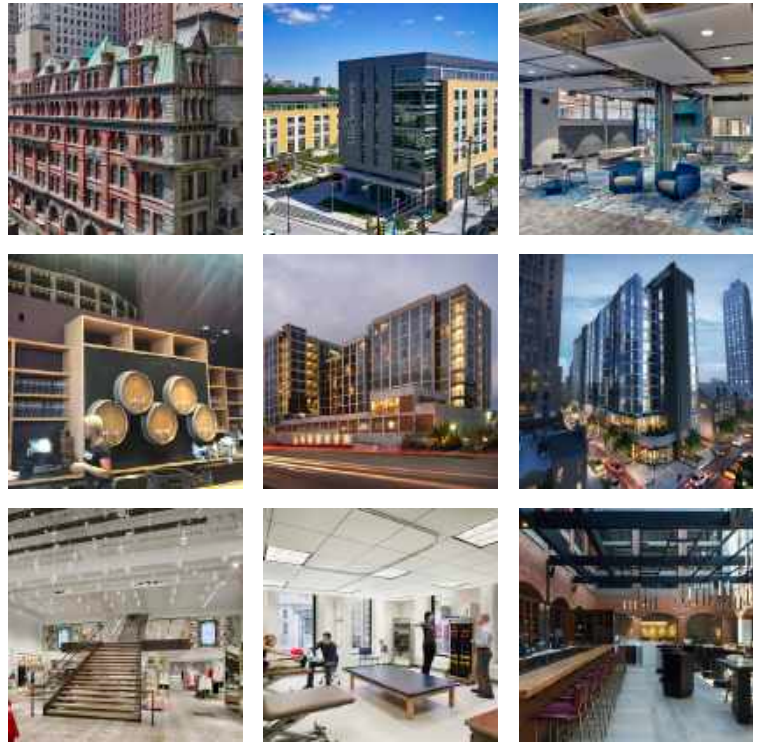


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