

JANUARY 19, 2019

# FUTURE CITY

COMPETITION  
PHILADELPHIA REGION



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*Sally and John Kampmeyer*

*Society of Fire Protection Engineers, Philadelphia-Delaware Valley Chapter*

*Thomas and Julie Gennaro*





**JENNIFER WETZEL**  
REGIONAL COORDINATOR

**Welcome to Future City!**

We are excited to have you join us at the Philadelphia competition. Our team members have been incredibly creative in planning and executing their projects and I'm looking forward to seeing the results – especially their ideas on this year's theme - designing and building resilient cities that can recover quickly from natural disasters. The Philadelphia Region continues to grow with over 1000 students at 56 schools who learned more about engineering this school year. Thanks to all of our sponsors and especially our partners at Archbishop Carroll High School for making this event a success. The Steering Committee and I welcome you to be a part of another great competition.

*Jennifer*

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**2019  
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

Jessica Weinstein - Program Art

Carrie Griesser - Juice

Herr's - Snacks

Bentley Systems - Student Giveaways

Wawa - Drinks

Tasty Baking Co. - Tastykakes

SAP Americas - Hosting 2018 Engineering Fair

# FINAL JUDGES

## **R. Barnett (Barney) Adler, PhD, PE**

*Adjunct Professor, Sustainable Energy Systems  
Electrical and Computer Engineering Department  
Villanova University*

Barney Adler is retired from PECO (formerly Philadelphia Electric Company) after 43 years of service as an engineer in various departments which included System Planning, Research, Transmission and Distribution Services, and, most recently, Philadelphia Distribution System Reliability and Operations. He earned his Bachelor of Science degree from Stanford University, and his Master of Science and PhD degrees from Drexel University. He is registered as a Professional Engineer in the Commonwealth of Pennsylvania, and is a Life Senior Member in the Institute of Electrical and Electronics Engineers.

## **Jennifer Maguire**

*Director of Corporate Communications  
Bentley Systems, Inc.*

Jennifer Maguire is the Director of Corporate Communications for Bentley Systems, a local provider of software solutions for the design, construction and operations of infrastructure. Prior to that, she served as Print and Digital Content Manager for AAA World magazine. Jennifer has experience as a technical writer for software and manufacturing companies. As an adjunct professor for nearly 10 years, she has taught college courses in technical writing, research writing for science majors, business writing and journalism for Penn State Brandywine, West Chester University and Wilmington University. She earned her master's degree from Villanova University.

## **John J. Peirce, PE, D.GE, F.ASCE**

*Founder and Principal  
Peirce Engineering, Inc.*

John J. Peirce, PE, D.GE, F.ASCE, is a leader in the field of geo-structural and construction engineering. He earned Bachelors and Masters Degrees in Civil and Geotechnical engineering from Drexel University. He is a Founder of Peirce Engineering, Inc. as well as an Adjunct Professor of Civil Engineering at Villanova University, teaching a graduate level course in Foundation Engineering. Mr. Peirce has completed thousands of design-build, geo-structural projects, predominately throughout the northeastern and mid-Atlantic United States. He is a registered professional engineer in DE, MD, NJ, NY, and PA. In 2002, Mr. Peirce was chosen as the ASCE Philadelphia Section's Civil Engineer of the Year and has recently been elected as the 2019 Delaware Valley Engineer of the Year.

## **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.

# SCHOOL LIST



SCHOOL	STUDENTS	MENTOR	CITY NAME
<b>Beverly Hills Middle School</b> Upper Darby, PA Kevin Stephan	Clauddavid Guerrier Amber Hill Antonia Milec Chayse Richards	Thomas Mitchell, PE Urban Engineers	Vista Bay
<b>Blair Christian Academy</b> Philadelphia, PA Willette Whitaker	Loren Fleming Aliyah Riley Trinity Robinson Deion McIntosh	Derrick Whitaker, PE Burns Engineering	Bounce Back
<b>Caravel Academy</b> Bear, DE Allyson Boedeker	Ben Banoub Aaron Maniyatte Maanvi Sarwadi Sami Vallury	Ralph Boedeker	Shocking Minds
<b>Cinnaminson Middle School</b> Cinnaminson, NJ Garwood Bacon	Alex Boyko Dean Clark Sriram Elango Erin Clark	Orla Pease AECOM	Mirai Wa Imadesu
<b>Collingswood Middle School</b> Collingswood, NJ Carol Johnson	Harper Allendoerfer Bram Harris Peyton Murray Paige Ferrese	Douglas Robbins	Kings Landing

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

<b>Downingtown Middle School</b> Downingtown, PA Derek Mastrangelo	Oak Hu Leo Schown Isabella Vanore Alicja Czaja	Tom Chmielenski Bentley Systems	Amalda
<b>Drexel Hill Middle School</b> Drexel Hill, PA Harry Crossgove	Josiah Saddick Olivia Schell Cooper Watson Su Di Yang	William Waldron AT&T	Endurfaeddur
<b>East Norriton Middle School</b> Norristown, PA Victoria Strickland	Lucas Kindij Veronica Ritter Jack Rosen Eddie Fisher	Jennifer Warren, PE Langan	Mirai No Toshi
<b>Eisenhower Science Technology Leadership Academy</b> Norristown, PA Damon McNeil	Sianni Odgers Liam Todd Zachariah Zanders	Suhail Hassan CVM Professional	New Brisbane
<b>Elizabethtown Area School</b> Elizabethtown, PA Terese Nicodemus	Lillia Alvarez Becca Mink Olivia Nilsen Emily Phillips	Gregory Nicosia UGI Utilities	Elizabethtown Park City
<b>G.A. Stetson Middle School</b> West Chester, PA David Kelly	Diya Lakshamanan Michael McGlone Andrew Welter	Anthony Zeloye, PE Jacobs	Atlantic City
<b>Great Valley Middle School</b> Malvern, PA Kelly Eidell	Harene Aparna Sami Hanna Suhani Mathur Benjamin Kirker	Flavio deRezende, PE	Alta Turris
<b>Grey Nun Academy</b> Yardley, PA David Rad	Lana Beck Michael Lange Colin Larkin Neayla Jones	Michael McAtee, PE Urban Engineers	La Fuerza
<b>Independence Charter School</b> Philadelphia, PA Gregory Schanne	Lly Blum Aino Smith Gabe Wingard Samson McCarthy		Niemimaa
<b>J.R. Fugett Middle School</b> West Chester, PA Todd Saundurs	Daniel Cheng Enio Hysa Ananya Mudigonda Liam Holman	Carlos Guzman Apple Leisure Group	Daw City

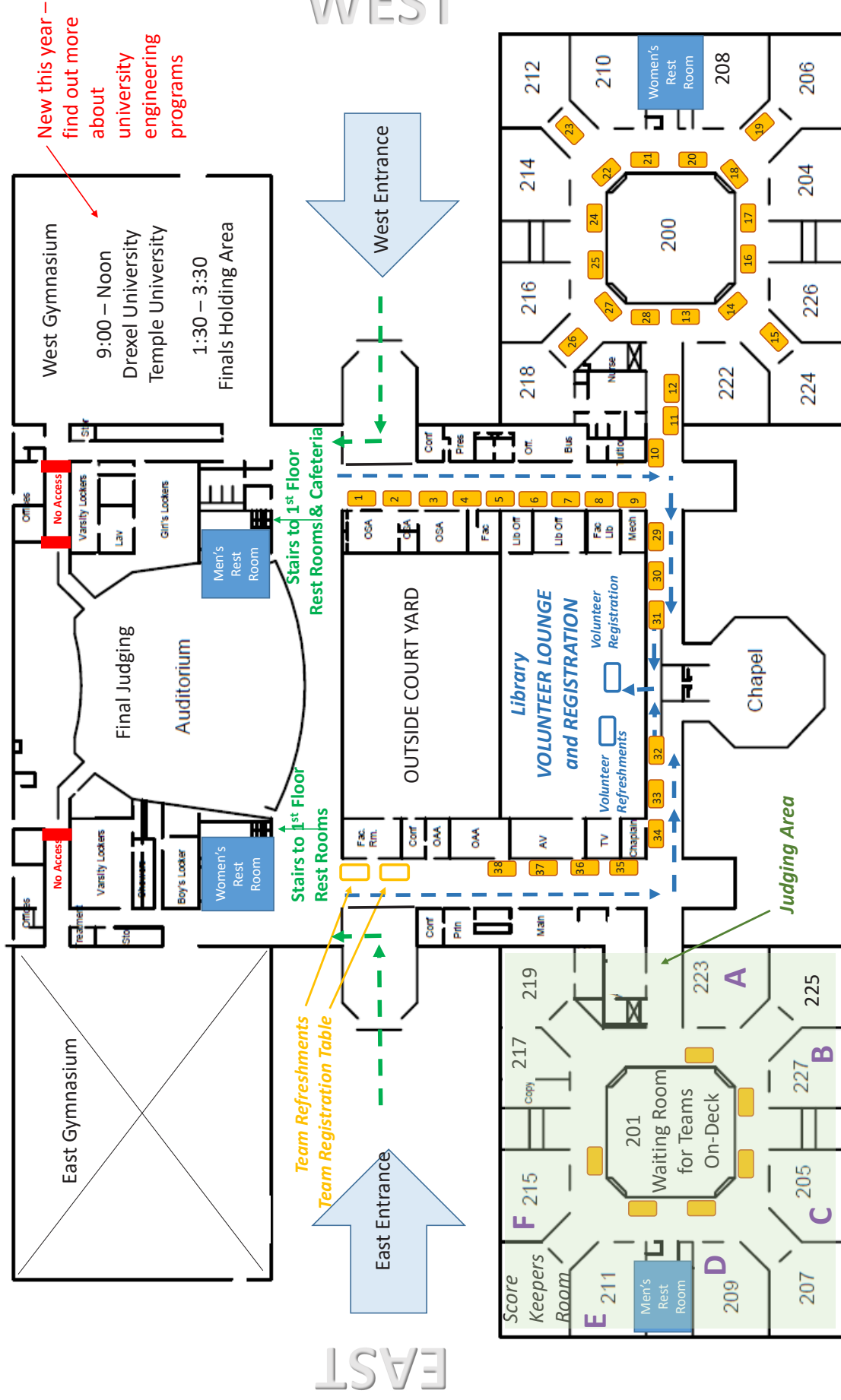
**SCHOOL****STUDENTS****MENTOR****CITY NAME**

<b>Lionville Middle School</b> Exton, PA Guy Raines	Devanshi Bhargava Saanvi Gupta Anousha Jaie Srikar Nagoti	Daisy Adams Bentley Systems	Soteria
<b>Maria Kaupas Academy</b> Scranton, PA Annie Hounsokou	Dominic Huffman Bruno Lefler Anna Stratton Abigail Deak	Michele Dempsey	Kisito
<b>Mother Teresa Regional Catholic School</b> King of Prussia, PA Sabrina Dwinnell	Katie George Kelsey Pearson Katrina Trimble Emma Barone	Kathy Lajoie Malik Technology Program Mgt. Advisor/Consultant	Tormenta
<b>Mount Aviat Academy</b> Childs, MD Terri Hanby	Charley Fockler Ronan Landis Aidan Venters Mason Heitz	Jeffery Landis	Mana Kaha
<b>Murray Avenue School</b> Huntingdon Valley, PA Denise Meyers	Will Bond Ava Devlin Siri Hellenbrand Noam Abraham	Greg Jakubowski Fire Planning Associates, Inc.	Gritty City
<b>New Hope Solebury Middle School</b> New Hope, PA Meka Chuma	Jane Atkinson Emily Steuer Rena Xu Maggie Livezey	Lynne Cavanagh	Jikikanpeki City
<b>Paxon Hollow Middle School</b> Broomall, PA Christina Rainville	Mia Horwath Sophia Medori Emma Regan Sarah Koh	Joe Horwath AT&T Wireless	ViLaFama
<b>Peirce Middle School</b> West Chester, PA Christopher Beatty	Elle Price Avery Wood Lauren Zisk Hailey Meade	Michael Kissinger, PE Pennoni Associates	Nouveau Plateau
<b>Penn Wood Middle School</b> Darby, PA Susan Chan-Peter	Taelor Adams David Hairston Nhaomi Lartey Cole Richardson		Blue Bunny
<b>Pottsgrove Middle School</b> Pottstown, PA Debra Frasca	Jackson Hansberry Jessica Hartley Avery Huber Brodie Reitmeyer	Charles Nippert Widener University	Tozalik
<b>Queen of Angels Regional Catholic School</b> Willow Grove, PA Julie Gennaro	Julianna Fayette Kylie McHugh Daniela Narcisi Jonathan Swider	Tom Gennaro URS	De Por Vida
<b>Radnor Middle School</b> Radnor, PA Darcy DiGiacomo Stephen Smolen	Yeshfa Ahmad Ayad Alhazmi Al Zahraa Al Rubaiey Christopher Anderson	Jason Boris Bergmann PC	Mirai

SCHOOL	STUDENTS	MENTOR	CITY NAME
<b>Sacred Heart School</b> Havertown, PA Maureen Travers	Shannon Daly James Pagan Shannon Pagan Shannon Daly	Kyle Fink, EIT Kelly & Close Consulting Engineers & Surveyors	Mist City
<b>St. Albert the Great School</b> Huntington Valley, PA John Schrenk	Sean Brennan Jack O'Rourke Sophia Werbo Maddison Ruddick		Bosai
<b>St. Aloysius Academy</b> Bryn Mawr, PA Julianne Long	Aidan Bellew Jack Fury Brandon Hughes Jeremy Callahan	Max Long Pennoni	Habito Amo Vitam
<b>St. Andrew School</b> Drexel Hill, PA Gabrielle Perry Megan Kinson	Tekira Knox-Wagner Eleanor Leslie Keira Pappano Lanise Brown	Kristine Dolceamore, PE Ewing Cole Jeffrey Roken, PE Urban Engineers	Arena
<b>St. Helena School</b> Blue Bell, PA Karen Holder	Meghan Hughes Giovanni Merone Andrew Rakow Meghan Connaghan	Paul Laub	Pua Nani
<b>St. Ignatius of Antioch Catholic School</b> Yardley, PA Mary Casey	Preston Abitz Sophia deJesus Lillian Eliason Erin Flatley		Industria Urbis
<b>St. Katherine of Siena School</b> Philadelphia, PA Mark Coval	Daniel Dailey Colin Kealey Victoria Trotter Liam Maccari		Sainte Catherine
<b>St. Mary Interparochial School</b> Philadelphia, PA Millie Cammisa	Zoe DePaul Michael Rachubinski Paul Ricchiuti Lindsay McGinley	Spencer Finch Langan	Seavonia
<b>Stewart Middle School</b> Norristown, PA Damon McNeil	Dustin Armas Riley Logan Gabriel Rivera Zachary Schuman		Tokoyo 2119
<b>Stratford Friends School</b> Newtown Square, PA Shelley Mansky	Jonathan Blagmon Robbie Starankovic Hannah Yannelli CJ Torretti	Lunal Khuon, AIA Always By Design, Architecture	Paradise Palms
<b>Thomas Holme Elementary School</b> Philadelphia, PA Lori Abernethy	Rayan Awawdeh Jasmine Bailon Daja Haines Chimdiadi Nwoga	Matt Sherwood Louis Rodriguez Consulting	Oasis City



## 2nd Floor – Floor Plan



**Note: Table locations are approximate**

## 2nd Floor – Floor Plan

# SCHOOL TABLE ASSIGNMENTS

1. Beverly Hills Middle School
2. Blair Christian Academy
3. Caravel Academy
4. Cinnaminson Middle School
5. Collingswood Middle School
6. Downingtown Middle School
7. Drexel Hill Middle School
8. East Norriton Middle School
9. Eisenhower Science and Technology Leadership Academy
10. Elizabethtown Area School
11. G. A. Stetson Middle School
12. Great Valley Middle School
13. Grey Nun Academy
14. Independence Charter School
15. J.R. Fugett Middle School
16. Lionville Middle School
17. Maria Kaupas Academy
18. Mother Teresa Regional Catholic School
19. Mount Aviat Academy
20. Murray Avenue School
21. New Hope Solebury Middle School
22. Paxton Hollow Middle School
23. Peirce Middle School
24. Penn Wood Middle School
25. Pottsgrove Middle School
26. Queen of Angels Regional Catholic School
27. Radnor Middle School
28. Sacred Heart School
29. St. Albert the Great School
30. St. Aloysius Academy
31. St. Andrew School
32. St. Helena School
33. St. Ignatius of Antioch Catholic School
34. St. Katherine of Siena School
35. St. Mary Interparochial School
36. Stewart Middle School
37. Stratford Friends School
38. Thomas Holme Elementary School



# SPECIAL AWARDS



## SPONSOR

## AWARD

Bentley Systems, Inc	Best Use of Advanced Technology
Pennoni Associates	Innovative Environmental Management
Project Management Institute, Delaware Valley Chapter	Excellence in Project Management
Urban Engineers, Inc.	Best Transit Design
AECOM	Best Transportation Planning
Associated Engineering Consultants, Inc.	Best Thinking Outside the Box
CVM Professional	Preserving our Past - Envisioning our Future
Delaware Valley Regional Planning Commission	Regional Vision
Gilbane Building Company	Attention to Construction Details
Hunter Roberts Construction Group, LLC	Most Creative Model Material
International Society of Pharmaceutical Engineers, Delaware Valley Chapter	Chuck Clericuzio Award for Innovation in Healthcare
Jacobs Engineering	Safety in Transportation
Langan Engineering & Environmental Services	Innovation in Sustainable Engineering
Skanska USA Inc	Innovative Construction Design
Society of American Military Engineers, Philadelphia Post	Creative Application of Civil Works
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
American Society of Plumbing Engineers, Philadelphia Chapter	Plumbing Innovation
Arora Engineers, Inc.	Rethinking Infrastructure to Power the Future
Association of Energy Engineers, Greater Philadelphia Chapter	Best Energy-Based Project
Ballinger	Walter Ballinger Hope for the Future
Boles, Smyth Associates, Inc.	Sustainability of Transportation Systems
International Society of Automation, Philadelphia Section	Sam Herb / Jack McGrath ISA Automation

James J. Anderson Construction Co., Inc.	Best Waterfront Concept
Johnson Controls, Inc.	Building Technology
L.F. Driscoll Company, LLC	Pride in Quality
National Fire Sprinkler Association, PennJerDel Chapter	Fire Sprinkler Water Delivery
TA Instruments	Best Use of Materials
Target Building Construction	Construction Management
Trefz Engineering	Innovation
American Planning Association, PA Chapter, Southeast Section	Planning Excellence
American Society of Civil Engineers, Philadelphia Section, Young Members Forum	Dream Big
American Society of Highway Engineers, Delaware Valley Section	Infrastructure
American Society of Highway Engineers, Southern New Jersey Section	Best Usage of Highway Design Principles
Canuso Jorden	Passion & Enthusiasm
Institute of Electrical and Electronic Engineers, Philadelphia Section	IEEE Philadelphia Section
Institute of Industrial & Systems Engineers, South Jersey Delaware Valley Chapter	P. Robert Siebeneicher, II 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.	Best Pedestrian Plan
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 Fire Protection Engineers, Philadelphia-Delaware Valley Chapter	Fire Protection Engineering
Thomas and Julie Gennaro	Technics and Civilization





# THANKS TO ALL OUR VOLUNTEERS & JUDGES!



**Dr. Elaine Ader** - Retired

**Atandrilu Anuva** - Drexel University

**Denise Aronson** - PMI

**Richard Asirifi** - CHPlanning, Ltd

**Kristi Baldwin**

**Al Beatty** - Delaware Valley Regional Planning Commission

**Kevin Bellomo-Whitten** - AECOM

**Monica Bersani** - Philadelphia Gas Works

**Michael Boles** - Boles, Smyth Associates, Inc.

**Christopher Bratz** - Ballinger

**John Bull, LEED AP** - AECOM

**Shitong Cao**

**Maggie Chase** - Jacobs Engineering

**Kevin Coll** - CVM

**Suzann Collins** - Jacobs Engineering

**Kevin Conahan** - Drive Engineering Corp.

**Erin Coombs** - Jacobs Engineering

**Matt Coulombe** - Ballinger

**Justin Cusick** - Esri

**Kimberlee Dengler**

**Rachel DePan** - Jacobs Engineering

**Mary Anne Devine** - JAOMAD Consultants

**Kamille Ditcher** - Ballinger

**William Dugary** - Applied Control Engineering, Inc.

**Briana Earle** - Langan

**David Eckard, CPSM** - Arora Engineers, Inc.

**Catherine Ellenberg** - AECOM

**Dr. Andrew Ellenberg** - Lockheed Martin

**Travis Elwood** - Ballinger

**Sharyn Fallick** - AECOM

**Enam Fares** - KMJ Consulting, Inc.

**Raymond Farria** - Arora Engineers

**Jake Fenno** - Consolidated Rail Corporation

**Dusty Fisher**

**Christian Flagg** - Bentley Systems

**Jeffrey Gang**

**George Gaynor** - Philadelphia Energy Solutions

**Frank Giorgilli** - Retired

**Noah Goldman** - Jacobs Engineering

**Philip Gonski** - Burns Engineering

**Steve Goodsell** - HDR

**Dr. Dennis Gross**

**Donna Guzowski**

**Jeff Guzy** - RK&K

**Nancy Hall**

**Edward Hart** - Arora Engineers

**Michael Heater** - Arora, Inc

**Samuel Herb** - JAOMAD Consultants

**John Hilditch** - Exelon Corporation

**Charlotte Hinton** - Urban Engineers, Inc.

**Hazel Johnson, MPM** - DePuy Synthes

**Meredith Johnson** - University of Pennsylvania

**Christine Kaelin** - Urban Engineers, Inc.

**Sanjog Karki** - Drexel University

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**Kristina Pumphrey** - Precis Engineering  
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**Mark Schwartz** - Amtrak  
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**Peter Silverberg**  
**Arthur Simpson** - AECOM  
**David Smith** - Gannett Fleming  
**Matthew Snyder** - CRB  
**Scott Sommer** - E-Technologies  
**Jeff Soy** - AECOM  
**Allan Stock** - Arora Engineers  
**Judi Subers** - UGIES  
**Dr. Fran Talarowski** - Retired  
**Jessica Tarica**  
**Andrew Thompson** - Urban Engineers, Inc.  
**Liz Trumbull** - Eastern State Penitentiary Historical Site  
**Scarleth Vasconcelos** - Villanova University  
**Caroline Voigtsberger** - NVS  
**Erich Weigert** - Johnson Matthey  
**Karen Whitaker** - DVRPC  
**Frederick Willis** - ASME  
**Dennis Wilson** - McCormick Taylor  
**Dr. Tiffani Worthy** - Drexel/ ATAP Foundation  
**Chuanming Zhang** - Jacobs Engineering

*Volunteer List of January 14, 2019*







# THANKS TO THE FUTURE CITY STEERING COMMITTEE

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**JUDGING COORDINATOR**

Susan Best

**VIRTUAL CITY JUDGING COORDINATOR/  
FINAL JUDGING COORDINATOR**

Sara Irick

**PRELIMINARY JUDGING COORDINATOR**

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**SITE LOGISTICS - ASSISTANT**

Kyle Fink

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Helen Silvis

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Charlotte Hinton

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**Philadelphia PA  
Section**

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Chapter



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### ISPE DVC Upcoming Events:

- 1.15.19 - January Program
- 1.25.19 - Annual Ski & Snowboard Trip
- 4.29.19 - Annual Golf Outing
- 5.16.19 - 29th Annual Symposium & Exhibition

[ispe.org/delaware-valley-chapter](http://ispe.org/delaware-valley-chapter)



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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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JANUARY 19, 2019