



2011
Philadelphia Regional
Future City Competition

January 22, 2011

Sheet Metal Workers Union Hall
Philadelphia, PA

A Program of
National Engineers Week

SPENCER



2011 National Engineers Week Philadelphia Regional Future City Competition



This is the 16th Philadelphia Regional Future City Competition. What began with 16 schools in 1996 has grown into an educational program that involves over 40 schools and over 1,000 students every year. The program is recognized by the National Association of Secondary School Principals and is adding the “E” in STEM education. After lunch, there will be a special presentation by Six Flags Chief Corporate Engineer, Larry Chickola, PE. Learn the science behind the design of modern roller coasters. All aspects of ride design will be discussed, from basic physics to restraints and vehicles.

Thanks to our sponsors and the hundreds of local volunteers who make this program possible. A special thank you also goes to our host, the Philadelphia Sheet Metal Workers.



Schedule of Events

8:00 - 8:45 AM	Team Registration and Model Set-up
8:45 AM	Opening Announcement
9:00 – 12:00 Noon	Preliminary Judging
9:00 – 12:00 Noon	Special Awards Judging
12:00 – 1:00 PM	Lunch
12:15 – 1:00 PM	Tours of Sheet Metal Training Facility
1:00 – 1:45 PM	Special Engineering Presentation Larry Chickola, PE Six Flags Chief Corporate Engineer “Design of Modern Roller Coasters”
1:45 PM	Announcement of finalists
2:00 – 4:00 PM	Final Judging: oral presentations, questions from judges
4:00 – 4:05 PM	Shell Presentation
4:05 – 5:00 PM	Awards ceremony and announcement of regional winning teams

Also thanks to our snacks suppliers
Campbell Soup Co. – Splash
TastyKake – Tastykakes

Final Judges

<p>Larry Chickola, PE</p> <p>Six Flags Chief Corporate Engineer</p>	<p>Larry Chickola has been the Chief Engineer of the Six Flags Corporation since 2001. As Chief Engineer his responsibilities include overseeing the corporate engineering staff and all engineering issues within the company. From 1998-2001, Mr. Chickola worked for Amtrak on Fare Collection and High Speed Rail projects. Prior to that he worked for Martin Marietta and the Hughes Aircraft companies, designing space satellite mechanical components such as deployment hinges and momentum control systems. Mr. Chickola has a bachelor's degree in Mechanical Engineering from the University of Michigan, and a Masters degree in Mechanical Engineering from UCLA.</p>
<p>Dave Huddleston</p> <p>Anchor Eyewitness News at 10 on The CW Philly</p>	<p>Dave Huddleston is anchor of <i>Eyewitness News at 10 on The CW Philly</i> as well as co-anchor of the Sunday evening edition of CBS 3's <i>Eyewitness News</i>. Prior to this, Mr. Huddleston had been co-anchor of the <i>Ten O'clock News</i> at WTXF, the FOX station in Philadelphia and an anchor/reporter for WCCO in Minneapolis. In addition, he served as the host for <i>Newton's Apple</i>, the national Emmy Award-winning science show. Honors include the Albert I. duPont-Columbia University Award and the Edward R. Murrow Award. An advocate for organ and tissue donation, Huddleston is registered with the National Marrow Donor program and has served as a donor for a 17 year-old with leukemia. He serves on the board of the Gift of Life Donor Program, the region's organ and tissue transplant network. Mr. Huddleston graduated from Washington State University with a Bachelor of Arts degree in journalism and television production. He and his wife, Tracey, reside in Delaware County, Pennsylvania, with their two daughters.</p>
<p>John A. Nawn, PE, PTOE, FNSPE</p> <p>Southeast Region Vice President for the Pennsylvania Society of Professional Engineers</p>	<p>Mr. Nawn is Vice President and Manager of Pennsylvania Operations, KS Engineers, P.C. He has served as a Principal, Project Manager, and/or Task Manager responsible for the design, engineering and management of various traffic, transportation, highway, bridge, mass transit, railroad, environmental, municipal and construction engineering projects. He also serves as Municipal Traffic Engineering consultant. Mr. Nawn is the Southeast Region Vice President for the Pennsylvania Society of Professional Engineers, after having been State Treasurer for four years. His service to NSPE has included three terms on the Critical Infrastructure and Homeland Security Task Force and two years with the Legislative and Government Affairs Committee where he is presently heading up the Infrastructure Sub Committee. He was named the 2008 Engineering Manager of the Year by the American Society of Civil Engineers, Philadelphia Section.</p>
<p>Bhupinder Singh</p> <p>Senior Vice President - Software, Bentley Systems, Inc.</p>	<p>Bhupinder Singh joined Bentley in 1994 and is the senior vice president of Bentley Software. Bentley Software is responsible for the strategic direction and management of all Bentley's software products and development activities. Previously, Mr. Singh was managing director of sales for Bentley South Asia and prior to that role, he was Bentley's senior vice president of the Platform Products Group. Before joining Bentley, Mr. Singh held various software engineering positions at Montgomery Watson Hazra and Intergraph Corporation. He is a graduate in Civil Engineering with a Bachelor of Technology from Indian Institute of Technology, Delhi and holds master's degrees in Structural Engineering from Vanderbilt University and in computer Science from Rutgers University.</p>
<p>Joseph R. Syrnick, PE, PLS</p> <p>President & Chief Executive Officer, Schuylkill River Development Corporation</p>	<p>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 the acting chair of the Philadelphia City Planning Commission. 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.</p>

School List

<u>School</u>	<u>Students</u>	<u>Mentor</u>	<u>City Name</u>
Annunciation BVM School Havertown PA Diane Giordano	Patrick Adams Michael Russo Casey Verzella Timothy Kober	Francesco Russo Michael Baker Jr. Inc.	Hygeia
Blair Christian Academy Philadelphia, PA Abigail Cruz	Mariah Brown Isa Muhammad Tylere Thomasson DeJason Ellis	Mark Washington	Nueva Panacea
Carl Sandburg Middle School Levittown, PA Andy Kippeny	John Angeline Ryan Foran David Kim	Rachel Smith Jacobs Engineering	Isle of Paradise
Cedarbrook Middle School Wyncote, PA Beth Kenna	Tito Badejoko Hanna Smyles Ana Tapia	Jay Yantosh Urban Engineers	Eco- Underground Siberia
Cinnaminson Middle School Cinnaminson, NJ Garwood Bacon	Sampson Abah Devon Galbraith Zachary Umstead Richard Travers	Ben Mazza Holophane Lighting	Diji
Drexel Hill Middle School Drexel Hill, PA George Hight	Muhtadyuzzaman Syed Amanda Thai Jennifer You Taylor Crnkovic	William Waldron AT&T Wireless	Caligo Cascada
East Norriton Middle School Norristown, PA Michael Casey	Crystal Assemacher Desmond Gorski Devon O'Brien Peter Eldridge		Dixton
Eisenhower Academy Norristown, PA Ellen Raieta	Josie Dillard Luz Munoz Ngozi Osazuwa Chardonnay White	Lindsay Mussleman Merck & Co, Inc	Nuetopia
G. A. Stetson Middle School West Chester, PA David Kelly	Ethan Backof Cameron Beeche Alexander Weir	Ricky Stierly Bentley Systems	Pavilion
Girard College Middle School Philadelphia, PA Shenene Fountain	Brandon Dixon Christopher Mathis-Gentry Aaron Rodgers Meckell Strickland	Joe Luste Pennoni Associates	Ville de Toussaint
Glen Landing Middle School Blackwood, NJ Patti Coughlan	Lisa Hayford Kathryn Morgan Karlie Naphy Patrick O'Brien	Scott Davis KlingStubbins	ELI

<u>School</u>	<u>Students</u>	<u>Mentor</u>	<u>City Name</u>
Governor Mifflin Middle School Shillington, PA Cathleen Scarborough	Suhana Jagadesan Beth Meck Andrew Przyjemski Austin Mytych	Tom Whye Carroll Engineering	Valaderia
Great Valley Middle School Malvern, PA John Snyder	Brandyn Amado Jane Li Kaitlin Toal	Michael Urban Gannett Fleming, Inc.	Patriotville
Grey Nun Academy Yardley, PA Micheline Balogh	Colin Cunningham Elizabeth Ferrara Lydia Mahony Elise Marek	Michael McAtee Urban Engineers	Senior Serenity
Hedgepeth/Williams Elementary School Trenton, NJ Bruce Williams	Richard Henries Luis Martinez Julian Bing-Newman	Tony Cirillo URS - Washington Division	Trentopia
Holy Angels Newark, DE Kathy Brown	Mark Ferelli Annalis Lopez Michael Testa Sean Smith	Kathy Swain DuPont	El Corazon
Holy Child Catholic School Philadelphia, PA Cyndi Manley	Amy Farrell Chloe Farrell C.J. Manley Jackey Brady		Pangea
Hopewell Crest School Bridgeton, NJ Linda Hubschmidt	Seth Davis Sarah Harkom Emily Miller Casey Burke	William Probasco Hungerford and Terry, Inc.	Bella Aqua
J. T. Lambert Intermediate School East Stroudsburg, PA Sheila Bove	Victor Arnold Carina Cohen Danial Nasirullah Sherryn Ramkarran	Joseph Marchese Lehigh University	Isola Della Gioventa
Kutztown Area Middle School Kutztown, PA Aaron Ashman	Skylar Moyer Rebecca Sylvernale Emily Yoder Gwendolyn Stark	Mike Barkasi Bentley Systems	Bergcitta
New Hope-Solebury Middle School New Hope, PA Phyllis Smith	MacKenzie Cavanagh Alexandra Kanovsky Jacob Steinberg Jake Dupont	Lynne Cavanaugh Bristol Myers Squibb	Jennopolis 2500
Northwood Academy Charter School Philadelphia, PA Meagan Hopkins-Doerr	Manuel Benabe Marcus Cruz Keenan Smith Dennis Rogers	Tristan Sylk PT Real Estate Capital	Northwoods

<u>School</u>	<u>Students</u>	<u>Mentor</u>	<u>City Name</u>
Octorara Middle School Atglen, PA Stephanie Rusen	Drew Cellini Brielle Kirk Casey Urban	Tom Chmielenski Bentley	Ville de Chance
Our Lady Help of Christians Abington, PA Jane Ring	Elizabeth DeMarshall Alexandra Ryan Matthew Wilkinson Elizabeth Napierkowski	Michael DiCamillo SEPTA	Ville L'Espoir
Overbrook Educational Center Philadelphia, PA Joel Jaroch	Dahmeer Duvernay Lauren Overton Bryana Palmer Jennifer Spencer	Alfred Washington City of Philadelphia (Ret.)	Ula
William Penn Middle School Darby, PA Brian Wilson	Sariya Andrews Kelvin Awo Jay B Jallah Adisa Anyika	Kalista Anyika DCMA Surface Communication & Support Systems	The City of Health Tropolis
Pequea Valley Intermediate School Kinzers, PA Susan Kingsley	Charlie Cooper Colby Steen Autumn Whiteman Zachary Alderman	Michelle Hohl SSM Group	Braveville
Radnor Middle School Wayne, PA Andy Achenbach	Maryann Han Lucy Johnston Jack Palmer Stephanie Seo	Bradley Sands Bergmann Associates	Nova Vida
Ridley Middle School Ridley Park, PA Michael Cerbus	George Cornick Billy Manning	Pat Ridgley Boeing Helicopters	Ridleyville
St. Andrew School Drexel Hill, PA Anita Mazzone		Mike Reyman Institute of Industrial Engineers, S. Jersey Del. Valley Professional Chapter	Auteenia
St. Cecilia School Philadelphia, PA Bruce Baer	Maria Brewster Maxine Jaskel Caterina Martin	George Gaynor Sunoco Inc.	Aero town
St. Christopher School Philadelphia, PA Karen Kelso	Alexis Johncola Marissa Picozzi Bridget Temple Nina Juntereal	Kevin Jurgelewicz SEPTA	Ville de la Memoire
St. John the Baptist (Ottsville) Ottsville, PA Alexis Wilson	Fernanda Culichia Sophia Delfini Rachel White Frank Krug	Damon Kline Taylor Wiseman & Taylor	New Vegas

<u>School</u>	<u>Students</u>	<u>Mentor</u>	<u>City Name</u>
St. John the Evangelist Morrisville, PA Aicia Rinkus	Nicholas Bill Thomas Mier Jacqueline Rinkus	John Rinkus Columbia Gas	Villa in the Sky
St. Jude School Chalfont, PA Anita Marko	Christian Burke Alexandra Razzi Connor Tramo Danielle Kosman	Jeff Crozier The Procz Group	Amphitrite
St. Lucy Day School/Archbishop Ryan Philadelphia, PA Diane Muller	Bridget Cassidy Amber Kromchad Rebecca Weber	Elizabeth Baldwin City of Philadelphia	Latipsoh
Saints Philip and James Exton, PA Mary Del Grande	Nicholas Lamb Melissa Marabito Lucas Watson Rachel Burkey	Peter Uhlman	Citta Sane
Shawmont Philadelphia, PA Michelle Golden	Alex Cooper Cameron Hubert Maureen Smith Liam Kelly/Sydney Innis	Mike Brodsky CRB	Sky High
Springside School Philadelphia, PA Joy Paul	Emily Swan Meredith Cooney Izzy Dickstein	Joe Tinari KlingStubbins	Misty Hollow
Stewart Middle School Norristown, PA Cheryl Levine	Noshai Abraham Katie Gingerich Vanessa Limbert	Brian O'Leary Montgomery County Planning Commission	ALPHA - CARING



Special Awards

<u>Sponsors</u>	<u>Award</u>
Shell Oil	Outstanding Engineering Performance
Bentley Systems, Inc	Best Computer Usage
AECOM	AECOM Commuter Planning
Pennoni Associates Inc.	Innovative Environmental Management
Society of American Military Engineers, Philadelphia Post	Creative Application of Civil Works
State Farm	Driving Safely Design
Urban Engineers, Inc.	Superior Communications
American Society for Quality, Southern Jersey Section	Total Quality Management
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 Technology
International Society of Automation, Philadelphia Section	Sam Herb/Jack McGrath ISA Automation Award
International Society of Pharmaceutical Engineers, Delaware Valley Chapter	Innovation in Healthcare
John & Sally Kampmeyer	Regional Coordinator's Special Recognition
KlingStubbins	The Fred Lindquist Design
National Fire Sprinkler Association, PennJerDel Chapter	Fire Sprinkler Systems
Service Point USA	Project Technology
Triad Fire Protection Engineering Corp.	Attention to Fire Protection Design
American Society of Civil Engineers, Philadelphia Section, Young Members Forum	ASCE YMF Award for Ingenious Civil Engineering
American Society of Highway Engineers, Delaware Valley Section	Infrastructure
Association of Energy Engineers, Greater Philadelphia Chapter	Energy Awareness
Engineers' Club of Philadelphia	World Class City
Institute of Electrical and Electronics Engineers, Philadelphia Section	Electro-Technology
Institute of Industrial Engineering, South Jersey Delaware Valley Chapter	Industrial Engineering Award for System Integration
Institute of Transportation Engineers, Mid-Atlantic Section	Most Innovative Transportation Concept
Intelligent Transportation Society of Pennsylvania	Best Use of Technology in Transportation
Ken Golkin, PMP	First Winners
National Association of Women in Construction	Family Friendly Award
Pennsylvania Planning Association	Planning Excellence
Pennsylvania Society of Professional Engineers, Delaware County Chapter	Best Coordination of Engineering Disciplines
Society of Fire Protection Engineers	Fire Protection Engineering
Society of Manufacturing Engineers, Chapter 15	Best Manufacturing Zone
Thomas and Julie Gennero	Technics and Civilization

Thanks to All of our Volunteers!

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Thanks to the Future City Steering Committee

For over 15 years, the members of the Steering Committee have been responsible for coordinating the schools, sponsors, volunteers and general operation of the Philadelphia Regional Competition. Most of the members have been with the program for over 10 of those years, a remarkable accomplishment when the average life of a volunteer is three years.

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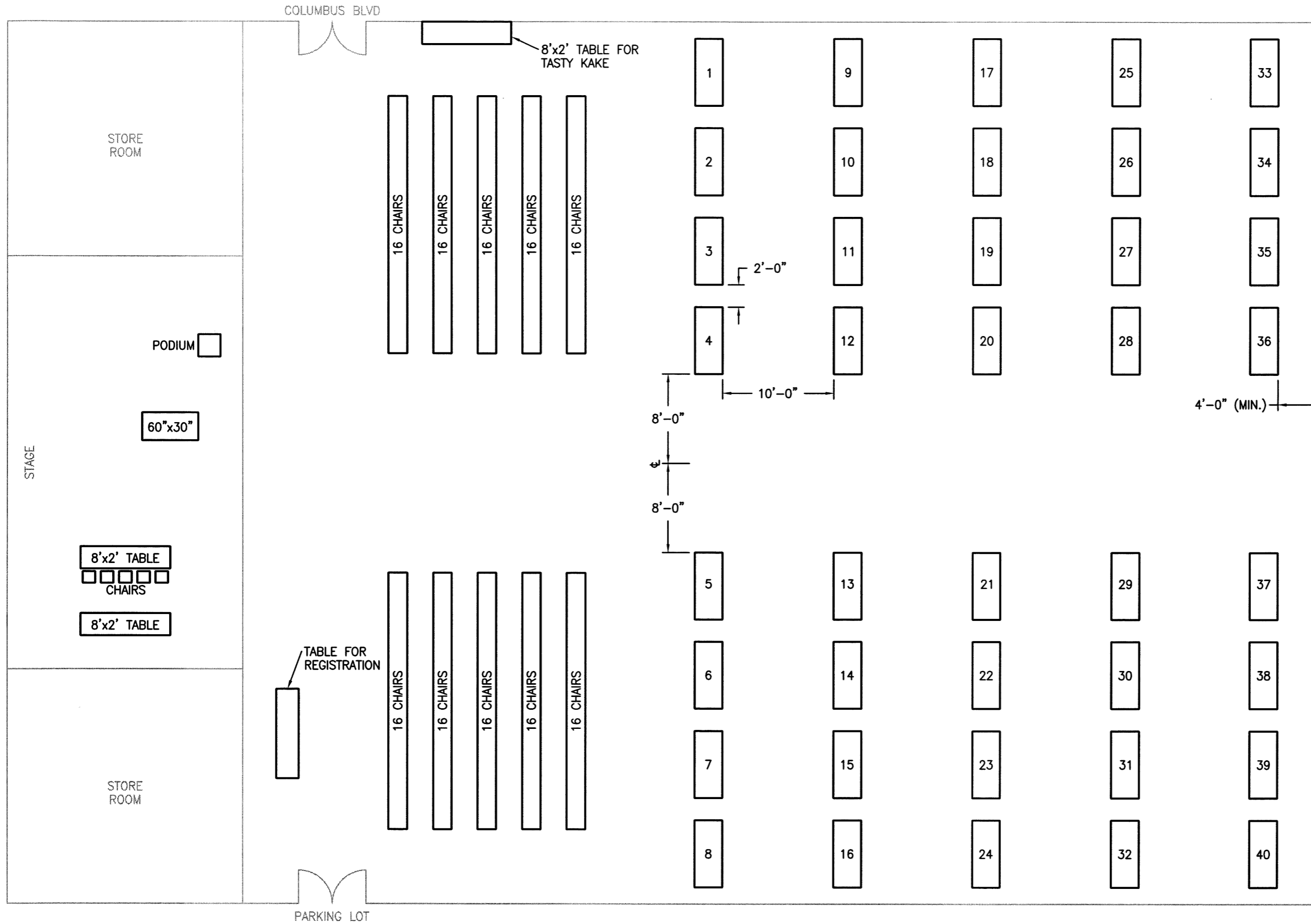
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Thomas and Julie Gennero





- SCHOOL**
- 1 Annunciation BVM School
 - 2 Blair Christian Academy
 - 3 Carl Sandburg Middle School
 - 4 Cedarbrook Middle School
 - 5 Cinnaminson Middle School
 - 6 Drexel Hill Middle School
 - 7 East Norriton Middle School
 - 8 Eisenhower Academy
 - 9 G. A. Stetson Middle School
 - 10 Girard College Middle School
 - 11 Glen Landing Middle School
 - 12 Governor Mifflin Middle School
 - 13 Great Valley Middle School
 - 14 Grey Nun Academy
 - 15 Hedgepeth/Williams Elementary School
 - 16 Holy Angels
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 - 23 Octorara Middle School
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 - 25 Overbrook Educational Center
 - 26 Penn Wood Middle School
 - 27 Pequea Valley Intermediate School
 - 28 Radnor Middle School
 - 29 Ridley Middle School
 - 30 St. Andrew School
 - 31 St. Cecilia School
 - 32 St. Christopher School
 - 33 St. John the Baptist (Ottsville)
 - 34 St. John the Evangelist
 - 35 St. Jude School
 - 36 St. Lucy Day School/Archbishop Ryan
 - 37 Saints Philip and James
 - 38 Shawmont
 - 39 Springside School
 - 40 Stewart Middle School

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