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### ABOUT THE DESIGN

The image used as the background on the cover pages and each page in this booklet was designed by Max Roberts, a psychologist who lectures at the University of Essex in the UK. His series of Circles Tube Maps began with a redesign of the London Tube (London subway system).

“I had intended Circles Tube Map as a playful exploration rather than an improvement in usability, but the positive response caused me to rethink. The design lost points for simplicity - its lines twisting and turning with many unavoidable corners - but the payback was a massive gain in coherence - the way in which the elements of a map holistically relate to each other, ideally giving the result clear shape. These maps force cities into unprecedented levels of organisation.

New York is the ninth destination in my world tour of circles maps…  
... how can a grid city with no real orbital component to its rail network be remotely be compatible with these design rules? The surprise is that, having identified a suitable point of origin, and apart from a few awkward locations, the map falls into place neatly. People may object to its aesthetics, and geographical purists will dislike it in the same way that they distrust all highly schematised designs, but its overall power is harder to dispute.”

The full New York Subway Circles Map, as well as corrections to this map, can be found on his website at www.tubemapcentral.com. All maps are copyright Maxwell J Roberts 20/07/2013. Strictly no reproduction without permission.
Thank you for joining us on this 7th year of the NJ Region Competition. This event, which is part of National Engineers Week, started over 20 years ago and has grown to include approximately 40,000 students from across the country. This Competition allows students to perform engineering tasks and learn about the engineering profession, all while having a great time!

Rutgers and the Center for Advanced Infrastructure and Transportation have been with us since the first year, hosting our competition. Please join us in thanking them for their support!

During the registration period, your team was assigned a color. To ensure the success and enjoyment of all participants, we ask that you follow the schedule on the next page according to your assigned color.

Thank you, we look forward to another fantastic Future City Region Competition!

Sincerely,
Scott Lubarsky, PE
Future City NJ Region Coordinator
# Agenda

## Common Schedule

<table>
<thead>
<tr>
<th>Start</th>
<th>End</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30</td>
<td>9:15</td>
<td>Registration</td>
</tr>
<tr>
<td>9:30</td>
<td>10:00</td>
<td>Welcome/Introductions</td>
</tr>
<tr>
<td>10:00</td>
<td>4:00</td>
<td>Student Team Schedules</td>
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<tr>
<td>4:00</td>
<td>5:00</td>
<td>Finalist Presentations</td>
</tr>
<tr>
<td>5:00</td>
<td>6:00</td>
<td>Keynote Speaker &amp; Awards Presentation</td>
</tr>
<tr>
<td>6:00</td>
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<td>Adjournment</td>
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## Team Schedules

### Red Teams

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<tbody>
<tr>
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<td>Judging</td>
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<td>12:00</td>
<td>College Competition Exhibits</td>
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<tr>
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<td>12:30</td>
<td>Open</td>
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<tr>
<td>12:30</td>
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<td>Lunch</td>
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<tr>
<td>1:00</td>
<td>2:00</td>
<td>Meet the Professionals</td>
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<td>2:00</td>
<td>3:00</td>
<td>PSE&amp;G EERC Energy 101</td>
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<td>Engineers Without Borders</td>
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### Blue Teams

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### Orange Teams

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### Purple Teams

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### Green Teams

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</table>
The 2013-2014 Future City Competition team would like to extend our heartfelt thanks to this year’s Diamond Sponsor, PSEG. The committee would like to give special thanks for their ongoing contribution to the Future City Competition.

**DIAMOND**

![PSEG logo]

**PLATINUM**

- Marsh
- Jacobs
- ASCE New Jersey Section
- ASCE North Jersey Branch
- ASHE North/Central Jersey

**GOLD**

- Pennoni
- Hatch Mott MacDonald
- Langan
- Naik Group
- New Jersey American Water
- New Jersey Society of Professional Engineers
- HNTB
- AACE International

**SILVER**

- GPI Greenman-Pedersen, Inc.
- NCEES
- Dewberry
- CH2M-HILL
- YU & Associates, Inc.

**OTHER**

- Six Flags Great Adventure & Safari
- Liberty Science Center
- NJ Transit
- New Jersey Turnpike Authority
- New Jersey Transportation Authority
The 2013-2014 Future City competition would not be possible without the tireless efforts of our participating volunteers. We would like to thank all of the volunteers who helped to make this program possible. There are many others who volunteered after the printing of this program whose names are not shown here.

If you see a volunteer today, please thank them for their support!

**STEERING COMMITTEE**

Scott Lubarsky  
*Regional Coordinator*  
*Naik Consulting Group, PC*

Jared Fattoross  
*Judge Coordinator*  
*URS*

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*Activity Coordinator*  
*Marsh USA*

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*STEM Educator and Liaison*  
*NJ Technology Association*

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*Marsh USA*  
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*HNTB Corporation*

Lizzie Browder  
*Port Authority of NY & NJ*

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*Registration*  
*Greenman-Pedersen, Inc.*
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BASF Corporation

HoonNee Cha
Langan Engineering

Lydia Collins

James Connolly
Hoffmann-La Roche Inc.

Victoria Gilbert

Elizabeth Hurley

Tom Kesolits
PJK Technology

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Alcatel-Lucent

Bianca Skvirsky

April Thomann
AECOM

Atif Wasti
Port Authority of NY & NJ

Kyle Winslow
Parsons Brinckerhoff

Ellen Yu
Verizon

VIRTUAL CITY JUDGES

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BASF Catalysts

Brian Felber
HNTB

Tom Hansen
Rutgers - School of Engineering

David Heller
South Jersey Transportation Planning

Portia Henry
Port Authority of NY & NJ

Matt Lunemann
Parsons Brinckerhoff

Dan Markley
Trifecta Technologies

Zach Sullivan
LTK Engineering Services

Stephanie Zarkis
Rutgers - Bloustein School
COMPETITION DAY JUDGES

Steven Alpert
HNTB

Chris Castellano
BASF Corporation

Richard Cestone

HoonNee Cha
Langan Engineering

Laura Coley
Dewberry

Lydia Collins

Willie Collins
BASF Catalysts

Roger Haight
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AECOM

Andrew Ludasi

Matt Lunemann
Parsons Brinckerhoff

David Marihugh
HNTB

Alicia Meyers
The Louis Berger Group, Inc.

Louis (Lou) Monteforte
Alcatel-Lucent

Patricia Ott, P.E.
MBO engineering, LLC

Scott Schipper
ASCO Valve

Karen Y. Scurry
FHWA

Roman Senyk
NJDEP

April Thomann
AECOM

Edward Tyerman
Dewberry

Kerri Tyerman
Dewberry

Ali Vaezi
Dewberry

Kenneth Wasserman
Hatch Mott MacDonald

Atif Wasti
Port Authority of NY & NJ
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Amado Baltazar
BVF Engineering

Kevin Burkman
Rutgers - Bloustein School

Lorraine Catt & Family

Shafqat Chaudhury
Naik Engineering

Muhammad Elgammal
Port Authority of NY & NJ

Sunny Gerlach
Clough Harbour & Associates

Portia Henry
Port Authority of NY & NJ

Aimee Jefferson
Rutgers - CAIT

Dan Markley
Trifecta Technologies

Avni Patel
Dewberry Engineering

Dattesh Patel
Naik Engineering

Pankil Patel
Naik Engineering

Tiwanda Randolph

Patrick Salemme
Rutgers - Bloustein School

Michael Semeraro
Jacobs Engineering

Shari White
ARC Middlesex

Bryce Wolfe
Fastenal

Stephanie Zarkis
Rutgers - Bloustein School
ACADEMIC TEAMS & CHAPTERS

FORMULA SAE® STUDENT DESIGN COMPETITION

RUTGERS
School of Engineering

ASCE – AISC NATIONAL STUDENT STEEL BRIDGE COMPETITION

RUTGERS
School of Engineering

NJIT
New Jersey’s Science & Technology University

ASCE NATIONAL CONCRETE CANOE COMPETITION

RUTGERS
School of Engineering

NJIT
New Jersey’s Science & Technology University

ENGINEERS WITHOUT BORDERS

ENGINEERS WITHOUT BORDERS-USA
ROWAN UNIVERSITY STUDENT CHAPTER

FIRST ROBOTICS TEAM

FRC
FIRST Robotics Competition

Bound Brook High School
COMPETITORS

C.T. Barkalow MS
Freehold
Teacher: Catherine Creech
Mentor: Ronald Rotunno, PE
Mentor: Kostas Svarnas
Revival City
Hassaam Choudhry
Olivia Handelman
Alex Salkin
Rohan Dureja
Stemma
Kelly Beuka
Caitlyn Flores
Ella Mansfield
Stephen Crafton-Tempel
Subterra
Matthew Donlon
Tessa Kravchenko
Evan Nastarowicz
Cole Matino

Clinton Public School
Clinton
Teacher: Amy Santacross
Mentor: Dirk Schaffer
AgletVille
Dylan Harrison
Zachary Kovach
Sarah Upwood
New Emerald City
Ryan McKeever
Evan Stoker
Estelle Yeung
Solar Sphere
Gerard Endersen
Nicole Lieffrig
Jack Schaffer
Sports City
Emily Klein
Kathryn McComb
COMPETITORS

Doane Academy

Burlington
Teacher: Michael Russell
Mentor: Mishal Kanabar

Eldingar, Iceland
Ben Marchesani
Robert Minton
JT Thompson

Janaina, Brazil
Isabella Cianfarra
Gokulraj Harikumar
Frank Scalise
Andrew Keays

Fords MS

Fords
Teacher: Richard Dosch
Mentor: Sophia Heng

Nu Fenix
Rajan Budzaku
Manuel Villar
Rodrigo Villar
Papa Asmah

River City
Jeffry Alfaro
Vignesh Kumar
Siddhant Pradhan
Fauzan Amjad

George Washington Carver/ Bruce Street School for the Deaf

Newark
Teacher: Ms. Bennett
Teacher: Ms. Ememe
Teacher: Ms. Landskroner
Teacher: Mr. Conaway
Mentor: Shakirah Lewis

“The 14th Engender”
Amani Hines
Bajanae Lance
Amir Walker
Elijah Saez

Dventure City
Shimon Hamilton
Justin Fenelus
Natavia Williams
Miniya Womack

New Newark
Darryl Chance
Amaya Clark
Desmond Gabriel
Paola Polanco

Perpetual Motion
Lee-onah Henderson
Zemorah Taylor
Kamari Williams
Tehran Jackson
Heritage MS
Livingston
Teacher: Kenneth Zushma
Mentor: Edward Bier
Avenir Voyage
Christe Hung
Catilin Yeung
Serena Zhao
Kotsuhaven
Alice Ng
Mary Yang
Jenny Zhu
Tsuru no Toshi
Selene Li
Laura Shu
Catherine Yu
Ville de Voyage
Vivian Lin
Rachel Margolin
Jessica Porcelli
Honiss School
Dumont
Teacher: Keri Scheinbach
Fannalan
Dylan Lynch
Fionah Lynch
Anna Gordover
Suave Transporte
Angelica Grubic
Jillian Sosinsky
Sophia Tache
HW Mountz Elementary School
Spring Lake
Teacher: Matthew Tonzola
Teacher: Linda Krebs
Mentor: Glenn Langowski
Magnetica Civitatem
William Bielicki
Rylan Foy
Sean Judge
Ian Mawn
COMPETITORS

Iselin MS

Iselin
Teacher: Lisa Lubarsky
Teacher: Joanna Albers
Mentor: Sarah Steib

Avenir City
Moksha Kachhia
Loren Kennedy
Dikshita Patel

Heliopolis
Ashritha Dinakar
Nandini Mutyala
Aarushi Pandey

Metafora
Rishabh Shah
Svanik Shirodkar
Arthraj Vyas

Umi Visum
Unnati Agrawal
Param Amin
Aditi Basu

Utopia
Shyama Dave
Elisa Pinkowitz
Nidhi Salian

Kenneth R. Olson MS

Tabernacle
Teacher: Rhonda K. Cutts
Mentor: Andy Feranda

Dome City
Brendan Jaggard
Matthew Kustrup
Cole Ludwikowski
Jonathan Martinez

Electronically Advanced
Empire
Robbie Sunbury
Jimmy Pronchick
Lindy Webb

Farglebrooke
James Hill
Jonathan Klenk
Aidan Lawyer

Metamorphicity
Owen Lovett
Cassidy Spilis
Jack Welling
Keyport Central School

Keyport
Teacher: Nicole Goldsmith
Mentor: Andres Roda

Gatesville
Vincent Panzarelli
Sal Tornetto
Nicholas Wroblewski

Monochrome Ward
Samantha Aumack
Anna Panzarelli
Veronica Thiel
Ian Adams

Subarashii
Ashley Bertics
Julian Rebelo
Christopher Wright
Alison Sickles

Northfield Community MS

Northfield
Teacher: Kathy O’Connor
Mentor: John Masi
Mentor: Scott Macpherson

Buenas Viajes
Marlisa Bongiovanni
Katharine Little
Rayna Patel
Nick Walsh-DeFelice

Hydraqueen
Ansel Obergfell
Henry Ou
Joel Vazquez-Juarbe
Bryce Cotterell

Zukunft
Reid Hurley
Richard Hurley
Robert Hurley
Adam Gitsas

Miftaahul Uloom Academy

Union City
Teacher: Sana Abdelfattah

Kosoku City
Hashim Ahmed
Alyaa Elkhafif
Jenna Hassan
COMPETITORS

Oratory Catholic Preparatory School
Summit
Teacher: Dr. Benjamin Schroeder
Mentor: Craig Goodall
SOLaRT
Stephen Mezzomo
Kevin Sofronas
Simon Wagner
Isaac Russell

Selzer School
Dumont
Teacher: Keri Scheinbach
Kokoto
Lauren Brady
Cathrine Djelevic
Madison Russo
Nahrwal City
Aldone Andrade
Alex Gluckman

Readington MS
Whitehouse Station
Teacher: Emily Bengels
Mentor: Susan Jankiewicz
Mentor: Jill Mesonas
Cycle City
Sean Donohue
Janine LeChien
Grace Meiman
Ricky Pastore
New Cycle City
Kenneth Bettermann
Connor Cullinane
Daniel Qi
New Tokyo
Sophia Costa
Matthew Eckhardt
Jay Gallagher
Viking Village
Luke Barckholtz
Evan Glass
Allison Vandal
**Sparta**

**Teacher:** Susan Breznak  
**Teacher:** Christine Collister  
**Mentor:** Allison Bernardini

**Electro**  
Colin Jeffer  
Maxim Vaskovtsev  
Max Yacun

**Infiltration Station**  
Jerry Ghong  
Ben Schultz  
Joshua Williams  
Brian Cabrera

**Talasky**  
Dane Lawlor  
Ande Wittenmeier

**Tesla City**  
Jack Kesselman  
Michael Trela  
Chris Vachris

---

**St. Leo the Great**

**Lincroft**  
**Teacher:** Jeanmarie Tommolino  
**Mentor:** Jenna Stagliano

**Beaumont, Switzerland**  
Catherine Bannon  
Laura Esteban  
John Meany  
Ian Williamson

**Vilocitas Luminas, India**  
William Acken  
Sara Fitzgerald  
Cosmo Gallaro  
Leah Frain
COMPETITORS

**St. Paul Interparochial School**

Ramsey
Teacher: Elaine Robinson
Mentor: Mary Mitsinikos

Adelvade City
Conor Kelly
Cassandra Mitsinikos
Charles Octobre
Colette Petric

Padala City
Jake Gallagher
Lourdes Sydney Otis
Katherine Tuite
Kathleen Diverio

Tasima City
Katherine Evans
Catherine Petretti
Christian Stewart
Danielle McKernan

**St. Rose of Lima Academy**

Short Hills
Teacher: Dennis Brown
Mentor: Bob Miller

Altus Mons
Katherine Hearden
Adam Porfiris
Cullen Wolff

Fairport
Cagney Boyle
Madison Dyer
Isabelle Perry
Benjamin Parma

Gatewaytropolopolis
Ryan Dorneo
Max Mrozek-McCourt
Isabella Vitalo
Jake Wozniak

Transtario
Claire Galvin
George Small
Sammy Tush

Wikaako
Peter Grappe
Seamus O’Neill
Ryan Schlageter
COMPETITORS

Stuart Country Day School
Princeton
Teacher: Mike Sowa
Mentor: Kathleen Jones
Lieu de marées
Mackenzie Brady
Roshni Patel
Sophie Tarditi

Township of Ocean IS
Ocean
Teacher: Christine Haney
Mentor: Victor Zabat
Baccelli Costiere
Fiona Coffin
Matthew Ianucilli
Joshua Ratcliffe

Bel Avenir
David Gonzalez
Lina Li
Emily Nelson
Jack Andrus

Utahpia
Jonah Bass
Ethan Black
Ilana Gaudette-D’Souza
Joshua Pickelney

Transfiguration Academy
New Milford
Teacher: Mrs. Betsy Walker
A City to Be
Jessica Bernard
Lucia Castaneda
Cathy Gallagher
Cloudsdale
Lorenzo Cortezano
Erin Malonzo
Blaise Rossman
Solaris Civica
Edrik Bautista
Alessandra Bontia
Michael Suarez
TransZity
Jadin Luzuriaga
Reuben Joseph Mejia
Sabrina Sison
Upper School

Englewood Cliffs
Teacher: Elise Andersen

Eternal City
Hiroki Hoshida
Emily Kong
Ricky Sivarak

Vectura
Liam Rahav
Lauren Krasnoff

Yuso Toshi
Madeleine Chang
Nicoletta Consales
Samantha Sivulka

Valley MS

Oakland
Teacher: Judith Vihonski
Mentor: Robert Akovity

Néo Diamánti
Joseph Cruciatta
Donal Gannon
Anthony Mazzilli

Whenua Aoteoroa
Adam Akovity
Nigel DaSilva
Christopher Leymeister

Valley View MS

Watchung
Teacher: Elaine Chesebro
Mentor: Todd Hay

Hava ka Sahara
Jacqueline Lee
Annika Schmidt
Isabel Vala

New Shanghai
Amanda Hwang
Olivia Xu
Helen Yang

Novaya Moskva
Kevin Huang
Andrew Pluta
Michael Stein

Salvador Novo
Ethan Marmolejos
Will Narayanan
Craig Vergilio
Kartik Hoover
COMPETITORS

William R. Satz MS
Holmdel
Teacher: Christen Rillo
Teacher: Sean Dowd
Mentor: Pete Singhofen
Forannos-City of the North Gate
Kevin Lu
Hamzah Shaikh
Allen Zhang
Stanley Lin

Woodbridge MS
Woodbridge
Teacher: Chun-Hang Lee
Teacher: Richard Dosch
Mentor: Andrew Foote
Kotsu Shima
Carla Giordano
Sarah Kusnirak
Nicole Pangiochi
Varoburgh
Andrew Ferguson
Malik George
Miles George
Christian Feliciano
H. Ali Vaezi is a Professional Engineer and Senior Vice President/Branch Manager with the firm of Dewberry. Ali manages Dewberry’s flagship office in Bloomfield, NJ. Established in 1956, Dewberry is headquartered in Virginia, with more than 40 locations nationwide. Dewberry is a leading professional services firm with proven history of providing architecture, engineering, and management and consulting services in the US.

Ali began his professional career as a highway engineer with Dewberry in 1980, and in 2011 was named the Branch Manager. Ali has designed and managed some of the most complex and high profile transportation projects in New Jersey. Projects in his career include the $2-billion-New Jersey Turnpike Widening Program (1985-90), where he was a key member of the Program Management team and later a field Liaison Engineer during construction. Ali managed the County Route 517 Bypass project in Sparta for the New Jersey Department of Transportation, as well as the final design phase of Section 1 of the Secaucus Interchange (Interchange 15X).

Currently projects under Ali’s direction include the $31-million Garden State Parkway Widening from Milepost 70 to 75, which is scheduled for completion this May. Also under his direction is the $130-million Route 206 Bypass in Hillsborough Township. In addition, as Program Manager for the $250-million Garden State Parkway Shoulder Restoration and Improvements from Milepost 83 to 100, Ali is assisting the New Jersey Turnpike Authority in the coordination and reporting of all program activities.

In addition to his significant contributions to major highway improvements throughout New Jersey, Ali’s commitment to the engineering and design industry is demonstrated through his active participation in many professional organizations.