

Portland State University

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PSU High School Innovation Challenge

2015 Innovation Challenge

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Apr 11th, 8:45 AM

## 2015 Innovation Challenge Event Program

Fariborz Maseeh College of Engineering and Computer Science

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## JUDGING PANEL

**Michael Armstrong**, Policy, Research and Innovation Manager for the City of Portland Bureau of Planning and Sustainability. Michael coordinated the public processes that led to Portland and Multnomah County's 2001 Local Action Plan on Global Warming and 2009 Climate Action. Other responsibilities include improving energy efficiency, renewable energy, waste prevention and recycling, sustainable food systems, green building, historic resources, and asset management for our community.

**Shu-ling Garver**, recently retired as a senior engineer at Intel Corporation after over 25 years of service. During her tenure she also served as a technical assistant to Intel Senior Fellow, Intel Fellow, VPs and Chief Technology Officers. She is devoted to helping the next generation to generate more engineers and currently serves as franchise owner and director of Engineering For Kids in the Portland Metro.

**Matt Jones**, is the Head of Future Infotainment at Jaguar Land Rover, a Board Member of the Linux Foundation, and served for many years as the Vice President of the GENIVI Alliance. Matt began his career in professional audio and aerospace, before joining the automotive sector with Jaguar Land Rover in 2002.

**Michelle Rowley**, is a Senior Software Engineer at MobilePaks, and founder of the nonprofit Code Scouts (now a program of ChickTech). In 2014, *Entrepreneur* magazine recognized Michelle as one of the 7 Most Powerful Women to Watch, and in 2013 she was chosen by *Fast Company* as one of the 100 Most Creative People in Business. In her free time, Michelle likes to travel, practice yoga, and read nonfiction.

**John Thompson**, has more than 35 years of experience in architecture, planning and urban design. As a ZGF design principal, he has led large teams on many of the firm's most technically complex projects. If you have walked the suspended curved bridges under the glass canopy at PDX or been to OMSI, the Convention Center or the Maseeh College of Engineering and Computer Science, you have experienced some of his work.

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Maseeh College of Engineering  
and Computer Science

PORTLAND STATE UNIVERSITY



PSU Innovation  
Challenge  
Competition  
2015



# Smart Cities:

Making our Urban Communities Safer, Healthier and  
Happier

Saturday, April 11, 2015  
9:00 a.m. – 4:00 p.m.

Portland State University  
Engineering Building, Room 102  
1930 SW 4th Ave  
Portland, OR 97201

## EVENT SCHEDULE

### **8:45 – 9:15 Registration**

Team posters on display in Engineering Building Atrium

### **9:30 Welcome**

Dean Renjeng Su, Maseeh College of Engineering and Computer Science

### **9:35 Judging Criteria and Voting Procedure Overview**

Tim Anderson, Chair, Engineering and Technology Management

### **9:45 – 11:45 Team Presentations (10 minutes + Brief Q&A)**

- MLC: *Osmosis Alive – Algae Water Filtration System*
- De La Salle: *Optimizing Efficiency of Street Lights*
- Grant: *Smarter Cycling*
- Jefferson: *Cleaner Drain*

### **11:45 – 12:30 Lunch**

Engineering Building Atrium

### **12:30 – 2:30 Team Presentations (10 minutes + Brief Q&A)**

- Madison: *Container Houses*
- Lincoln: *véLo-CK*
- Wilson: *F.I.S.H. (Finding Information about Safety and Health)*
- Franklin: *Cleaning Up the Cities of Tomorrow*

### **2:30 – 2:45 Break**

### **2:50 – 3:00 Next Year's Theme - Suggestions**

Tim Anderson, Chair, Engineering and Technology Management

### **3:15 Awards Ceremony**

## THE TEAMS

### **De La Salle North**

Peter Ataras · Olivia Carter · Shareace Miller · Jesus Montes  
Dylan Penston · Graciela Quinto · Elias Taylor  
*Mentors: Becka Brien, Alex Hupfeld*

### **Franklin**

Miguel Campos · Jack Chen · Alex Gaiovych · Fernando Lauer  
Kaleb Swoverland · Anna Velikoreestkikh · Jason Yu  
*Mentors: Branden Driver, Walt Woods*

### **Grant**

Cory Koehler · Aubrey Masten · Konon Phillips · Richard Smith  
Sarah St. Clair · Alex Taylor  
*Mentors: Barbara Acevedo, Ke'Liilah Vara*

### **Jefferson**

Macy Chadney · Jeremy Ferrando · Masson Klepp · Rebekah Likestoskat  
Daniel Ortiz-Rojo · Jonah Paivarinta  
*Mentors: Justin Ramirez, Brad Scardino*

### **Lincoln**

Anna Blakely · Jonathan Cordisco · Jonathan Huang · Justin Huang  
Emma Perlman · Ruhika Prasad · Siddarth Suri · Will Swindell  
*Mentors: Anthony Levenda, Soheil Zarrin*

### **Madison**

Tran Joseph · Anissa Rosbaugh · Sydne Scott · Hanan Yassin  
*Mentors: Michael Goins, Jeremiah Swanson*

### **Metropolitan Learning Center (MLC)**

Jonathan Baird · Liam Beckett · Adrik Gurganus · Tucker Johnson  
Htet Htet Soe · Parker Swensen · Nick Vautravers  
*Mentors: Susan Eslami, Anne Ng*

### **Wilson**

Harriet Adkins · Sasha Leamy · Ben Makuch · Himanshu Nagpal  
Elle Sandifer · Edward Szczepanski · Connor Walker  
*Mentors: Ryan Catabay, Peter Schuft*