

Portland State University

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PSU High School Innovation Challenge

2016 Innovation Challenge

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Apr 9th, 8:15 AM

## 2016 Innovation Challenge Event Program

Fariborz Maseeh College of Engineering and Computer Science

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## JUDGING PANEL

**Bill Beamer** is the Sustainability Outreach Coordinator at the Portland Bureau of Planning and Sustainability. He leads the Portland Fix-It Fairs, Bright Spot events and the city's Climate Action Now! program to help residents make sustainable choices.

**Matt Jones** is the Director of Future Infotainment at Jaguar Land Rover (JLR), President of the GENIVI alliance, a Board Director of the Linux Foundation, and is actively leading the push for open infotainment and systems standards to enable the rapid creation of leading-edge features across industries. He is actively working with Linux and the open source communities through a multitude of projects. Based in JLR's newly-established Research and Development Centers in Portland, Oregon, his teams in the U.K. and U.S. are responsible for the specification and roll-out of the latest generations of Linux-based systems, are committed to developing Open Software for the automotive sector and are accelerating the growth of start-ups through the JLR Tech Incubator.

**Mark Lewis** is Oregon's policy Director for STEM and CTE education at the Chief Education Office. In that role he also directs the work of the STEM Investment Council, and oversees a strategic investment strategy for the state. His first career was launching satellites as an aerospace engineer in Los Angeles before entering into education via 12 years with the Peace Corps in the Middle East and South Pacific. Mark enjoys tinkering, laughing, and raising his two teenage sons.

**Peter van der Meulen** is a ZGF Principal Architect has more than 35 years of experience in architecture, planning and urban design. With a career focus on technical design and sustainability, he has managed large teams on many of the firm's most technically complex projects, including the Maseeh College of Engineering and Computer Science at PSU, and the Twelve West Indigo mixed-use tower in Portland.

**Elizabeth Van Rossen** works as an Energy Analyst at Glumac. Liz is a Portland State and Maseeh College alumna who graduated in 2014 with a Bachelor of Science in mechanical engineering. While at PSU she participated as a mentor in the premiere PSU High School Innovation Challenge in 2013.

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## 2016 PSU HIGH SCHOOL INNOVATION CHALLENGE

### FINAL EVENT!

# 04.09.2016

## 9:00 AM - 4:00 PM

**BENSON POLYTECHNIC  
DE LA SALLE NORTH  
FRANKLIN HIGH SCHOOL  
LINCOLN HIGH SCHOOL**

**MADISON HIGH SCHOOL  
METROPOLITAN LEARNING CENTER  
PORTLAND YOUTH BUILDERS  
WILSON HIGH SCHOOL**

**PSU ENGINEERING BUILDING  
1930 SW 4TH AVE, PORTLAND, OR 97201**



Maseeh College of Engineering  
and Computer Science  
PORTLAND STATE UNIVERSITY

## 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)**

- **Madison** – *A Genetic Approach to Designing a Novel Biological Sensor to Monitor Water Contamination*
- **Benson** – *Residential Greywater Recycling System*
- **MLC** – *Isolated Water Circulation and Filtration System*
- **Wilson** – *Aqua Band*

### **11:45 – 12:30 Lunch**

Engineering Building Atrium

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

- **PYB** – *LARC: Local Agricultural Resource Conservation*
- **Franklin** – *puddl: Gamifying Water Conservation*
- **Lincoln** – *Small Scale Water Filtration Project*
- **De La Salle** – *De La Salle Sensor*

### **2:30 – 2:45 Break**

### **2:50 – 3:20 Special Presentation – Iditarod Mushing Cooker**

Aimee Ritter, Student, PSU Mechanical and Materials Engineering

Tom Bennett, Instrument Technician, Civil and Environmental Engineering

### **3:30 Awards Ceremony**

## THE TEAMS

### **Benson Polytechnic**

Sophia Bui · Clare Clark · Anthony Hoang · Kim Le  
Skyler Mishler · Janette Soler · Teresa Tran

*Mentors: Jesse Howser, Alex Moulazimis*

### **De La Salle North**

Shayla Adams · Elli Cooney

Geraldine Hernandez · Gloria Joseph · Elias Taylor

*Mentors: Robin Ekeya, Ben Goodman*

### **Franklin High School**

Quince Assenberg · Jack Chen · Danny Glenn · Jessica Lam

*Mentors: Christina Jaderholm, Walt Woods*

### **Lincoln High School**

Colin Brock · Tristan Coffey · Lauren Galle · Lang Ming

Andria Tattersfield · Alex Tees · Elaine Yang

*Mentors: Melissa Preciado, Robb Sutton*

### **Madison High School**

Cynthia Bui · Joel Crandall · Alyssa Faulk · Israel Gonzalez

Colin Kuhns · Julie Lu · Miriam Nguyen · Anissa Rosbaugh

*Mentors: Aqeel Al-Bahadily, Anne Ng*

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

Wysteria Cedillo-Nielsen · Adrik Gurganus · Zander Hoffman

Mellonie Mwawai · Morgan Rekart

*Mentors: Barbara Acevedo, Harsh Momaya, Matt Boston*

### **Portland Youth Builders (PYB)**

Sid Crumble · Josh Davis · Dash Justice · Ashlie Kinney

*Mentors: Ryan Catabay, Tim Gulzow*

### **Wilson High School**

Sam Behrens · Michael DiSimone · Alexandra Leamy

Aiden Nelson · Jessica Peterson

*Mentors: Randy Mueller, Ke'Liilah Vara*