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PSU High School Innovation Challenge

2016 Innovation Challenge

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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Scott & Judy South

[Re]Fresh Our H₂O

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