

## Schedule

### \*GROUP 1 (AM Tour Group)\*

8:15 AM Arrive at Keizer Civic Center  
 8:30 - 11:00 AM **Out on area tours**  
 11:00 AM Return to Keizer Civic Center

11:00 - 12:05 PM Engineer and student interaction at Keizer Civic Center  
**Lunch provided by K's Catering**

12:05 - 12:45 PM **Keynote address: Daniel Adamo**  
 Question and Answer Session

1:00 - 2:30PM **College Presentations and Interactions**  
 2:30 PM Return to schools

### \*GROUP 2 (PM Tour Group)\*

9:30 AM Arrive at Keizer Civic Center  
 9:45 - 11:00 AM **College Presentations and Interactions**

11:00 - 12:05 PM Engineer and student interaction at Keizer Civic Center  
**Lunch provided by K's Catering**

12:05 - 12:45 PM **Keynote address: Daniel Adamo**  
 Question and Answer Session

1:00 - 3:30 PM **Out on area tours**  
 3:30 PM Return to Keizer Civic Center & Schools

## Keynote Speaker

### Daniel Adamo



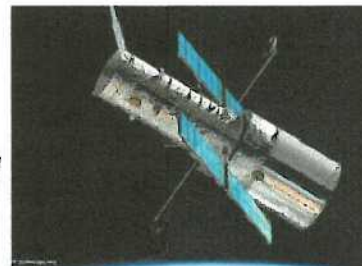
Mr. Adamo is an astrodynamics consultant focused on space mission trajectory design, operations, and architecture. He works with clients primarily at NASA and in academia.

Mr. Adamo graduated from the University of Rochester, New York with a BS in Optical Engineering. He went on to complete a MS in Physical Science at the University of Houston, Clear Lake.

Until retirement in 2008, Mr. Adamo was employed by United Space Alliance as a trajectory expert, serving as a "front room" flight controller for 60 Space Shuttle missions. Along with console duties during simulations and missions, this job entailed development of trajectory designs, software tools, flight rules, console procedures, and operations concepts. Mr. Adamo began his career at the Perkin-Elmer Corporation where he developed and operated proof-of-concept software for computer-controlled polishing of optical elements. He has degrees in Physical Sciences and Optical Engineering from the University of Houston and the University of Rochester, respectively.

Mr. Adamo is an American Institute of Aeronautics and Astronautics (AIAA) Associate Fellow and the author of many publications (ref. [http://www.aiaahouston.org/adamo\\_astrodynamics/](http://www.aiaahouston.org/adamo_astrodynamics/)). He has received numerous awards, including 14 NASA Group Achievement Awards.

*Fun Fact: Mr. Adamo helped develop computer-controlled polishing techniques for the Hubble Space Telescope.*



## Industry Tour Sites

### COLUMBIA HELICOPTERS

- Since 1957, leading the way in heavy-lift helicopter operations. Aurora, OR.

### ELKAY

- Wood cabinetry manufacturing facility. Independence, OR.

### GK MACHINE

- Designs, engineers and fabricates parts, engines and machinery for agriculture, transportation, construction, and industrial uses around the world. Donald, OR.

### GARMIN AT

- Designs and manufactures electronics, including GPS navigation and communication radios for aviation. Salem, OR.

### METAL INNOVATIONS

- Provides composite and sheet metal airframe structures over multiple aircraft platforms. Aurora, OR

### MICRO SYSTEMS ENGINEERING, INC.

- Designs and constructs implantable medical devices for cardiac rhythm management. Lake Oswego, OR.

### OREGON BALLISTIC LABORATORIES

- Evaluates bullet resistant materials for ballistic and fragmentation protection. Salem, OR.

### PGE SALEM SMART POWER CENTER

- Inspiring utilities to look at new ways to store energy, provide backup to the grid, support development of microgrids, and integrate renewables onto the grid. Salem, OR.

### RIGADO

- Provides proven low power wireless solutions and experienced engineering services. Salem, OR.

### SEQUENTIAL

- Collects used cooking oil, refines it into biodiesel and bioproducts, and then refuels our communities. Salem, OR.

### THE ULVEN COMPANIES

- A single source for a wide variety of forging, casting, machining and heat treating processes. Hubbard, OR.

### VAN'S AIRCRAFT

- Manufactures kit airplanes for home builders. Aurora, OR.

### VITRO ARCHITECTURAL GLASS

- A glass coating facility that applies energy saving thin film coating to glass using a MSVD process. Salem, OR.

## Supporters

### ENGINEERING COMMUNITY SPONSORS

#### GOLD LEVEL

American Public Works Association (APWA)  
ASCE Capital Branch \* Garmin \* H & R Engineering  
Salem Electric

#### SILVER LEVEL

ACEC Oregon \* DKS Associates \* GeoEngineers  
HDR, Inc. \* Keller Associates, Inc. \* Quincy Engineering, Inc.

#### BRONZE LEVEL

Dan Keeley \* Kelly Albers - USDA NRCS \* Keith Garlinghouse  
Ken Archibald \* Kenneth Cannady-Shultz  
Kevin Macquoid \* Matthew Stucker \* Murray Smith \* OSBEELS  
Paul Eckley \* Paul Monical \* WH Pacific

### HIGH SCHOOLS

Amity High School \* Blanchet Catholic School  
Career Technical Education Center \* Cascade High School  
Chemawa Indian School \* Crosshill Christian School  
Early College High School \* Gervais High School  
Jefferson High School \* McKay High School  
McNary High School \* McMinnville High School  
Molalla High School \* North Salem High School  
Santiam Christian High School \* Silverton High School  
South Salem High School \* Sprague High School  
West Albany High School \* Western Mennonite School

### HIGHER EDUCATION ORGANIZATIONS

Chemeketa Community College \* George Fox University  
MECOP Inc. \* Oregon Institute of Technology  
Oregon State University \* Portland State University  
University of Portland

**Thank you for helping make this  
event possible!**

## Committee Members

### CAPITAL BRANCH - OREGON SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS

Ken Archibald, Oregon Dept. of Transportation (Ret.)  
Steve Downs, City of Salem (Ret.)  
Makenzie Ellett, David Evans and Associates  
Jenna Hills, DKS Associates  
Stuart Jantze, Oregon State Marine Board  
Scott Mansur, DKS Associates  
Byron Meadows, Marion County Public Works (Ret.)  
Mikal Mitchell, HDR, Inc.  
Ryan Murray, AKS Engineering & Forestry, LLC.  
Peter Olsen, Keller Associates, Inc.  
Jennifer Parry, Emerio Design  
Robert Predosa, WEST Consultants  
Ken Roley, City of Salem  
Richard Walker, AKS Engineering & Forestry, LLC.  
Kristopher Walker, HDR, Inc.

### HIGH SCHOOL ORGANIZATION MEMBERS

RJ Hampton, Salem-Keizer Schools  
Coleen Ruiz, Salem-Keizer Schools  
James Orth, Salem-Keizer Schools  
Rob Tinnell, Salem-Keizer Schools  
Coleen Ruiz, Chemawa Indian School

### OTHER MEMBERS

Kyson Montague, Garmin  
Jerome Murray, Oregon Public Utility Commission (Ret.) (IEEE)

### CATERING - K's Catering - Keizer, OR

#### Menu:

Smoked Chicken  
BBQ Brisket  
Lasa (Vegetarian Lasagna)

BBQ Baked Beans  
Green Beans and Bacon  
Dinner Rolls

Garden Salad  
Caesar Salad

Chocolate Chip Cookies  
Water & Soda



5099 River Rd N, Keizer, OR  
www.salemkeizercatering.com  
503.463.9333

## 11th Annual Mid-Willamette Valley Future Engineers Day

*Sustaining and Growing the Engineering Profession*



February 27, 2018  
8:15 am to 3:30 pm

Keizer Civic Center  
Keizer, Oregon



DISCOVER   
LET'S MAKE A DIFFERENCE

**ASCE**  
AMERICAN SOCIETY OF CIVIL ENGINEERS  
OREGON SECTION  
CAPITAL BRANCH