

Newsletter of the Structural Engineers Association of Oregon

#### SEAO

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March 2017 Volume 17 Issue 5

# Upcoming SEAO Meetings and Events:

# Friday, April 7, 2017: YMF Lunch Meeting Location: TBD Time: 12:00pm

See page 4 for additional YMF information.

### Thursday, April 20, 2017: YMF Happy Hour

Location: TBD Time: 5:30pm See page 4 for additional YMF information.

### Tuesday, April 25, 2017: Canstruction Kickoff Meeting

Location: DOWA-IBI Group, 907 SW Stark, Portland, OR Time: 5:30pm See page 4 for additional information.

### Wednesday, April 26, 2017: SEAO Lunch Meeting

Topic: Earthquake Resilience: A New Role for Structural Engineers Speaker: David Bonowitz, SE Location: Sentinel Hotel, The Billiard Room, 614 SW 11th Ave., Portland, OR Time: 11:30am check-in and lunch, 12:00pm program PDH Credit: 1 hour See page 2 for additional information.

### Tuesday, May 2, 2017: Oregon ACI Seminar

Topic: Troubleshooting Concrete Construction Speaker: Kim Basham, PhD, PE, FACI Time: 7:00 am to 4:00 pm Location: Crowne Plaza Hotel, Lake Oswego, OR See page 10 for additional information.

# Wednesday, July 19, 2017: SEAO/OACI Golf Tournament

Location: The Reserve, Aloha, OR Time: 1:00pm Shotgun Start, 6:00pm Social Hour, 6:30pm Dinner and Awards See page 12 for additional information.

SEAO has a twitter account and can be followed at @SEAOregon.



CONNECTIONS is a monthly publication of the Structural Engineers Association of Oregon, published to disseminate current news to our membership and others involved in the profession of structural engineering. The opinions expressed reflect those of the author and, except where noted, do not represent a position of SEAO.

Send membership inquiries to: 9220 SW Barbur Blvd. No. 119 PMB #336 Portland, OR 97219

#### **BOARD OF DIRECTORS**

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### APRIL LUNCH MEETING ANNOUNCEMENT WEDNESDAY, APRIL 26, 2017

#### Topic: Earthquake Resilience: A New Role for Structural Engineers

Once the Resilience movement gets past its buzzword phase, what will it mean to our work as structural engineers?

Earthquake resilience, however you define it, is as much about reoccupancy and recovery as it is about safety. So a shift to resilience-based design will involve new performance objectives, new design criteria, and even new structural systems for limiting downtime. But as resilience emerges as the new basis for earthquake policy, it will also change how we think about building codes, how we measure building performance throughout a jurisdiction, and the roles we play as engineers, both individually and through organizations like SEAO.

A review of recent proposals will show why our current practices might be inadequate, even counterproductive, in terms of community resilience. Resilience, much more than safety, requires collective action; you can make your building *safe* for yourself, but you can't make your business *resilient* without the rest of the block, neighborhood, city, or region also contributing. The resilience challenge is what economists call a tragedy of the commons, and it cannot be solved by relying on rational selfinterest alone. If we just copy the policies and programs we used for safety hazards, swapping in the word "resilience" for "safety," we will likely fail.

This recognition should affect how we advise clients and policy-makers. SEAO has helped lead past efforts to reduce earthquake risk. If we intend to continue that leadership, we will need to be more careful in lending our support to efforts that mean well but will have unintended, if predictable, consequences. The complexity of the resilience challenge means it is no longer enough for engineers simply to endorse every proposal with the word "earthquake" or "retrofit" in it; we might actually have to smartly oppose some ideas in order to make progress. Current case studies and policy initiatives suggest how SEAO and its members can maintain their influence, with new confidence and expertise, in the coming era of resilience-based design.

#### Speaker: David Bonowitz, SE



David is a Fellow Member of both SEAONC and SEAOC. He chairs the NCSEA Existing Buildings committee and is a past chair of SEAONC's Seismology and Existing Buildings committees. He is a member of SEAOC's Legislative Committee and EERI's Advocacy and Public Policy Committee, and is active in the SPUR Resilient City initiative and on the NIST Community Resilience Panel. Bonowitz is a graduate of Princeton University and holds a Master of Engineering in Structural Engineering from UC Berkeley.

#### Details:

Location: Sentinel Hotel, 614 SW 11th Ave., Portland, OR
Time: 11:30 am — Check in and lunch 12:00 pm — Presentation
Cost: \$32 — Prepaid Members

\$20 — Prepaid YMF Members \$42 — Prepaid Non-Members Free — Students

**Reservations:** Pre-registration is required for all. **You can register and pay online at <u>www.seao.org</u> <b>before noon, Friday, April 21.** You can also register with Jane Ellsworth via phone at (503)753-3075 or via Email: <u>jane@seao.org</u>. Note: No-shows will be billed.

PDH Credit: One PDH has been recommended for this program.

#### **SEAO COMMITTEES**

#### <u>CODE ADVISORY COMMITTEE</u> Seismic *Reid Zimmerma*

reid.zimmerman@kpff.com

Wind Jim Riemenschneider jimr@vlmk.com

Snow Load Andy Stember andy@jasenginc.com

Code *Eric Watson* eric@miller-se.com

Vintage Building *Wade Younie* wyounie@dci-engineers.com

Special Inspections *Eric Watson* eric@miller-se.com

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STRUCTURAL ENGINEERS EMERGENCY RESPONSE (SEER) Shawn Stevenson sstevenson@morrisonhershfield.com

PROGRAM COMMITTEE Monthly Meetings David Gilroy dgilroy@strongtie.com

Awards *Brynn Adkins* brynn@wdyi.com

Golf Tournament *Stephen Stenberg* steez07@yahoo.com

Conferences *Kevin McCormick* kevin@miller-se.com

#### ADVOCACY COMMITTEE Website

Website Seth Thomas seth.thomas@kpff.com

Engineers Week *Michelle Juarez* michelle@miller-se.com

Young Member Forum Kate Pfretzschner kathryn.pfretzschner@kpff.com

*Deanna Kuhlman* dkuhlman@mcknze.com

CONTINUING EDUCATION <u>COMMITTEE</u> Seminars *Andy Stember* andy@jasenginc.com

#### **MEMBERSHIP COMMITTEE**

Newsletter Sarah McClelland smcclelland@moldedfiberglass.com

Roster *Jane Ellsworth* jane@seao.org

**DELEGATES** 

NCSEA & WCSEA/NWC Seth Thomas seth.thomas@kpff.com

*Amit Kumar (Alternate)* amit.kumar@portlandoregon.com

#### SEAO AWARDS COMMITTEE UPDATE BY: BRYNN ADKINS

**SAVE THE DATE** – This year's Excellence in Structural Engineering Awards will take place at the September dinner meeting. Projects will be judged on innovative design, engineering achievement and creativity and awards will be presented in the following categories:

#### Submission Categories:

New Buildings Under \$10M New Buildings Over \$10M Renovation/Retrofit Special Use Structures

#### Eligibility Requirements:

- 1. Project must have been completed during the calendar year of 2016 or 2017.
- 2. At least one member of the design team must be a member of SEAO.
- 3. Entries are not limited to any size, type or location.
- 4. Projects may be submitted into one category only.

Each company may submit up to two projects per category (8 project total).

\*For questions regarding submission categories or eligibility requirements, contact <u>brynn@wdyi.com</u>.

Entering firms are required to provide a written summary of the project emphasizing the major aspects of the project, photos highlighting the project during and after construction, and any other pertinent information or documents that will aid in the judging process.

Applications will be available in the May SEAO newsletter and the deadline for submissions is June 30, 2017.

Want to get involved? The Awards Committee is looking for new members. Email <u>brynn@wdyi.com</u> for details.

# VENDOR ADVERTISING

SEAO is now accepting vendor advertising!

Cost of a full page ad running for one month: \$250 - Members \$350 - Non Members

For more information, contact Jane Ellsworth at jane@seao.org.

# CANSTRUCTION





Canstruction is an engaging design/build event that combines the Lego building skills of your childhood with your A/E/C experience to create impressive CANstructures. Great designers are inspired; they understand the scope of demands, use quality materials, and budget well. We use these tools every day, the same tools needed for building a great CANstructure to visually exemplify the tremendous need to feed the hungry. This year we are very excited to celebrate the 21<sup>st</sup> annual Canstruction Design and Build Competition in Portland.

Even as Portland grows there are still many in our community that are in need of food assistance. Oregon Food Bank serves 270,000 people every month! "One in six Oregonians face food insecurity. They struggle silently and make heart-wrenching decisions that nobody should have to make." *Quote taken from Oregon Food Bank "Voices 2015" brochure.* We CAN



help. Canstruction uniquely speaks to the public by highlighting the growing food challenge in Portland and the surrounding communities. The CANstructures dramatically illustrate the volume of need; just one CANstructure consisting of 5,000 cans will feed 70 families for 4 days.

You are invited to team up with your clientele to build a CANstructure and take a role in raising funds and food for Oregon Food Bank. CANstructures have the unique ability for us to reach the community-at-large with visually inspiring public awareness while teambuilding within your firm and clientele. **The 2017 Kickoff Meeting will be Tuesday, April 25th from 5:30pm to 6:30pm at DOWA-IBI Group (907 SW Stark St).** Please R.S.V.P. to <u>in-</u> <u>fo@canstructionpdx.org</u>. We will have light snacks and refreshments and will be going over updated rules, timelines, and an event overview.

Join the 100+ firms who have teamed-up to build 162 structures over the past 20 years in the ongoing effort to stamp out hunger in Oregon!

See the Call for Entry on page 9 for more information about our kickoff meeting on April 25<sup>th</sup> or contact us at <u>in-fo@canstructionpdx.org.</u>



Your Canstruction Committee

# SEISMIC EVENTS

#### **ASCE Webinars**

Friday, March 31, 2017, 8:30 AM – 10:00 AM PST. Practical Nonlinear Modeling and Analysis of Buildings including a Case Study.

#### ATC Council Webinars

Wednesday, April 12, 2017, 12:00 PM – 1:30 PM PST. ATC Webinar on Technical Brief No. 12, Seismic Design of Cold-Formed Steel Lateral Load-Resisting Systems – A Guide for Practicing Engineers.

### YOUNG MEMBER FORUM ACTIVITIES BY: KATE PFRETZSCHNER AND DEANNA KUHLMAN

### Upcoming YMF Events:

Friday April 7<sup>th</sup> – Lunch Meeting Location: TBD Time: 12:00pm to 1:00pm Lunch will be provided.

**Thursday April 20<sup>th</sup> – Happy Hour** Location: TBD Time: 5:30pm to 7:30pm

### YMF Website:

Please visit our website for more information on YMF events:

http://www.seao.org/committees/advocacy/ymf/.

### ENGINEERS WEEK RECAP BY: DAVE BEH



Discover Engineers Week is an annual community led event which was held this year on Thursday, February 23, 2017. Hundreds of high school students participated in the event designed to encourage students to pursue and learn all about rewarding careers in engineering of all disciplines and technology. SEAO sent ambassadors to inspire the high school students and provide answers to questions about the exciting career of structural engineering. SEAO members were personally thanked for their role in a success of the program, including Michelle Chavez of Miller Consulting Engineers, by name at the banquet.

Students toured facilities of science, technology, and engineering of their choice such as Boeing, OHSU Biomedical Engineering, Vestas Wind Systems, Vigor, Mountainside High School -EQ Resiliency and other locations. After



their chosen field trips, students headed to Double Tree Hotel Lloyd Center for exhibits and a banquet. A special thanks to Gary Lewis, SEAO Past President, for hosting the SEAO booth at the exhibit hall where students interacted and discussed the importance of our profession.

Students had the distinct pleasure of listening to an inspiring speech by Bryony DuPont of OSU about engineering solutions to global problems and the Keynote speech was given by Evan Thomas of Portland State University on "Engineering Global Health", which was equally as inspiring.

SEAO member, Dave Beh of Nishkian Dean, was seated with students from Vancouver iTech Preparatory High School, School of Science and Technology, and Beaverton High School. He offered the following observation:



"Providing high schoolers with the information of day to day activities, challenges, and rewards of structural engineering is essential to recruiting the best and brightest of our youth." The volunteers from SEAO had meaningful conversations with students from all different backgrounds and schools. The next generation of engineers is a bright and eager generation full of potential with a thirst for developing creative solutions for the next generation of challenges!

# WEBSITE UPDATE

The SEAO board is looking at overhauling the website in the next year, as our current website is becoming obsolete. The board is soliciting input from the membership to help guide the overhaul process. We would like to know what features the current website has that you like, dislike, and wish worked better. In addition, what would you like to see added, reorganized, or changed? This website is one of the tools SEAO can offer its membership, and we want to make it as useful as possible for all our members.

If you have any ideas, please contact Seth Thomas (<u>seth.thomas@kpff.com</u>).

# ASK A QUESTION, GET AN ANSWER

Do you have a code question you would like to ask the Wind Committee or Snow Committee? SEAO is pleased to announce a simple way for Q&A's with technical committees. Email questions to jane@seao.org, and SEAO will direct your question to the appropriate committee chair for a response. Questions and their answers will be made anonymous and available to the membership on the website www.seao.org.

Committees include: Seismic, Wind, Snow, Code, Vintage Building, and Special Inspections.

### SUPPORT THE ASCE/AISC NATIONAL STUDENT STEEL BRIDGE COMPETITION AT OSU

Oregon State University has the honor of hosting the 2017 National Student Steel Bridge Competition (NSSBC) on May 26-27. Help us to make the 2017 NSSBC a resounding success and to keep student registration fees low by becoming a sponsor!

#### • Platinum Sponsorship Level

- o Contribution: \$5000 +
- Benefits: Booth at the display event; Ad space (3.5"x3") in the competition guide; 2 tickets to the awards banquet; Logo on the competition shirts and website
- Gold Sponsorship Level
  - o Contribution: \$2500
  - Benefits: Ad space (3.5"x3") in the competition guide; 2 tickets to the awards banquet; Logo on the competition shirts and website
- Silver Sponsorship Level
  - o Contribution: \$1000
  - Benefits: 2 tickets to the awards banquet; Logo on the competition shirts and website
- Black Sponsorship Level
  - o Contribution: \$500
  - Benefits: Logo on the competition shirts and website
- Orange Sponsorship Level
  - o Contribution: \$100
  - Benefits: Name on the competition shirts and website

Other opportunities for company and NSSBC branded merchandise are also available. If you are interested in sponsoring the 2017 NSSBC event, please contact Chelsea Farnsworth at <u>farnswoc@oregonstate.edu</u>.

#### <u>CITY OF EUGENE</u> Structural Plans Examiner Eugene, OR

The Planning & Development Department for the **City of Eugene** is seeking a positive, productive individual that enjoys providing excellent customer service to the community and can thrive in team environments. The position will be on the Building & Permit Services team and will perform professional level reviews for the structural engineering of complex structures.

#### License or Certificate

Requires possession of, and ability to maintain, State of Oregon registration as a Professional Civil or Structural Engineer, or an equivalent nationally recognized certification. Possession of, or ability to obtain, an Oregon Inspector Certification and a State of Oregon Structural Plans Examiner A-Level (PEA) Certification.

For more information about this position please click here to view the <u>Structural Plans Examin-</u> <u>er</u> classification specification or visit <u>www.eugene-</u> <u>or.gov/jobs</u>.

# WISEMAN + ROHY STRUCTURAL ENGINEERS

Structural Engineer San Diego, CA

**Wiseman + Rohy Structural Engineers** is a full service Structural Engineering company with four decades of quality projects constructed around the United States. Most of these projects are in Southern California and western states. We have an opening for an engineer with over 5 years of experience in structural engineering. This position offers the opportunity to participate in challenging and unique projects in all types of commercial structures. We are looking for a highly motivated engineer to become a long-term part of this established company.

Immediate position available. Please Send Resumes to: <u>HR@wrengineers.com</u>.

#### SEFT CONSULTING GROUP Structural Engineer Beaverton, OR

SEFT Consulting Group is a growing consulting firm located in Beaverton, Oregon. SEFT offers our clients structural seismic solutions for critical buildings and lifeline infrastructure systems through expert services in seismic evaluation, performance-based design, resilience planning, and practical implementation of analytical and experimental research. SEFT is looking for an energetic entry to mid-level team member that has earned a Master's Degree or PhD in Structural Engineering and is committed to life-long learning. This position requires an individual that is passionate about structural engineering and is self-driven with the ability to work independently. Applicants must have excellent communication and interpersonal skills. SEFT offers flexible work hours, competitive salary and benefits, and opportunities for profit sharing. If you are interested in joining us, please send your resume and cover letter to info@seftconsulting.com .

# EMPLOYMENT OPPORTUNITIES (CONT.)

#### <u>KPFF PORTLAND</u> Structural Engineer Portland, OR

**KPFF Portland** is looking for Experienced Structural Engineers who are motivated and interested in an opportunity for growth. KPFF is about freedom. Freedom to work on what inspires you. Our engineers work on a vast spectrum of projects that are located around the globe: from anchorage of mechanical systems to complex, non-linear analysis of high-rise structures. We have the benefits of a large, stable firm but none of the red tape that comes with it. Providing first-class service to our clients is what we're about. We are a group of dedicated, friendly, collaborative, hard-working professionals. Please use the appropriate link below for full details. KPFF is an equal opportunity employer.

**Experienced Structural Engineer:** 

#### Apply Here:

http://chc.tbe.taleo.net/chc05/ats/careers/ requisition.jsp?org=KPFF 2&cws=63&rid=73

#### NISHKIAN DEAN Senior Engineer Portland, OR

Nishkian Dean is seeking a Senior Engineer, the candidate should have 5 to 10 years of progressive experience with structural design. The role of this position will be to serve as a Project Engineer / Manager. In this capacity you would be responsible for the structural design of complex structures, coordinating with supporting staff and client interaction. It is critically important that the candidate be comfortable in serving in a leadership role in this position and can demonstrate their experience doing so. The future expectation is that the successful candidate will take a management and ownership position with the firm.

We are seeking individuals that are creative, motivated with a keen interest in structural engineering. If you are looking for a progressive environment with long-term growth potential contact us!

Visit: <u>https://www.linkedin.com/jobs/view/267560085</u>. Contact: <u>ed.dean@nishkian.com</u>.

#### CATENA CONSULTING ENGINEERS

Structural Engineer Portland, OR

catena consulting engineers provides the personal environment of a small firm while providing the opportunity to work on a variety of projects. Our projects vary in size from a single day's effort to large projects with construction values in excess of \$300 million. You will gain design experience in concrete, steel, timber, and masonry buildings and will work on a wide variety of project types including buildings created for healing, learning, living, and interacting. Due to the technical complexity and challenge of many of our projects, we seek engineers that hold a Master's degree, and that have a desire to learn, grow, and be challenged. U.S. citizenship is preferred. We are currently seeking engineers with 0-6 years of experience in structural engineering for buildings. For a detailed advertisement and to submit your resume, visit our website http:// www.catenaengineers.com/opportunities.php.









# ANNUAL DESIGN AND BUILD COMPETITION

TO BENEFIT OREGON FOOD BANK

# CALL FOR ENTRIES

### wно

Teams of Portland Metro & SW Washington area Architects, Engineers, Contractors, Designers and Students attending Schools of Architecture, Engineering and Design.

#### WHEN

April 25	Kickoff Meeting, 5:30 - 6:30 pm	
	DOWA-IBI Group, 907 SW Stark, downtown	
May 9	Deadline for Entry	
September	canstruction Build Out (Monday)	

#### ENTRY FORM (e-mail to info@canstructionPDX.org)

### WHAT

Design and build structures made entirely from canned foods as a creative fundraising and teambuilding opportunity for the A/E/C community.

### MAIL \$250 ENTRY FEE TO

Canstruction Portland P.O. Box 6323 Portland, OR 97228

#### Payable to: Canstruction Portland



Firm		
Contact	Phone	
Address		
Teaming with Firm(s)		
Contact		
Contact	E-Mail	

# **CONTACT US**

Christopher Mount, canstruction Chair phone: 503.891.9819 e-mail: info@canstructionPDX.org



LIKE US on Facebook (canstruction Portland Oregon)

Learn more at canstruction.org

	REGON ACI SEMINAR MAY 2 <sup>nd</sup> , 2017		
OREGON CHAPTER	<b>TROUBLESHOOTING</b> <b>CONCRETE CONSTRUCTION</b> With: Kim Basham, PhD, PE, FACI		
MAY 2 <sup>ND</sup> 7:00 <sup>AM</sup> - 4:00 <sup>PM</sup>	CROWNE PLAZA HOTEL 14811 KRUSE OAKS DR LAKE OSWEGO, OR 97035 BEngineers receive 6 PDH's for Attending Seminar Contractors receive 6 CEU's for Attending Seminar		
CDACE IS LIMITED	TO 100 SEATS, SO BE SURE TO REGISTER EARLY ST FOR DAGE		
7:00 <sup>AM</sup> -7:30 <sup>AM</sup>	REGISTRATION		
AM SESSION			
<b>7:30</b> <sup>AM</sup> -8:00 <sup>AM</sup>	Continental Breakfast will be provided		
8:00 <sup>AM</sup> -9:15 <sup>AM</sup>	<b>Evaluating Low Concrete Strength (75 min)</b> Field vs. Lab Cured, Evaluating Strengths, Non-destructive Testing (NDT) for Strength		
9:15 <sup>^M</sup> -9:30 <sup>^M</sup>	BREAK		
9:30 <sup>4M</sup> -10:30 <sup>4M</sup>	Troubleshooting Concrete Cracks (60 min) Why Concrete Cracks, Intrinsic vs. Structural Cracks, Restrained-shrinkage Cracks		
10:30 <sup>4M</sup> -10:45 <sup>4M</sup>	BREAK		
10:45 <sup>^M</sup> -11:30 <sup>^M</sup>	Troubleshooting Concrete Cracks, continued (45 min) Controlling Cracks: Concrete Shrinkage, Jointing & Reinforcement		
11:30 <sup>AM</sup> -12:30 <sup>PM</sup>	<b>LUNCH</b> A Full Lunch will be provided		
<b>PM SESSION</b>			
12:30 <sup>PM</sup> -1:30 <sup>PM</sup>	<b>Troubleshooting Formwork and Surface Finishes (60 min)</b> Formwork Pressures, As-cast Finishes - Smooth Form vs. SF-1.0, SF-2.0 & SF-3.0, Imperfections vs. Defects		
1:30 <sup>PM</sup> -1:45 <sup>PM</sup>	BREAK		
1:45 <sup>PM</sup> -2:45 <sup>PM</sup>	<b>Troubleshooting Steel-troweled Floors (60 min)</b> Aggregate Shadowing, Window of Finishability, Premature Finishing, Air-Entrainment, Surface Delaminations, Crusting		
2:45 <sup>PM</sup> -3:00 <sup>PM</sup>	BREAK		
3:00 <sup>PM</sup> -3:55 <sup>PM</sup>	<b>Troubleshooting Scaling of Exterior Slabs (55 min)</b> Durable Concrete, Air Entrainment, Premature Finishing, Steel-troweling vs. Floating & Brooming, Overworking the Surface		
3:55 <sup>PM</sup> -4:00 <sup>PM</sup>	Closing Remarks		

# **ABOUT THE SPEAKER:**



# Kim Basham, PhD, PE, FACI KB Engineering, LLC Senior Structural Engineer

# **EDUCATION**

B.S. and M.S. in Structural Engineering from Virginia Polytechnic Institute & State University and a Ph.D. in Civil Engineering from the University of Wyoming.

# SPACE IS LIMITED TO 100 SEATS, SO BE SURE TO REGISTER EARLY!!

# **ACTIVITIES AND EXPERIENCE**

Dr. Basham is a member of the ACI 306 – Cold Weather Concrete Committee, ACI 302 – Concrete Floor and Slab Construction, and ACI 347 – Formwork Construction of the American Concrete Institute; American Society of Civil Engineers; The Concrete Society, American Society of Concrete Contractors; and International Concrete Repair Institute. He is a certified Trainer and Examiner for the Concrete Field Testing Technician, Concrete Flatwork Technician & Flatwork Finisher, and Concrete Lab I programs sponsored by ACI. Dr. Basham has taught structural analysis, concrete and masonry design, and concrete material courses at Virginia Military Institute, the University of Wyoming, and the University of Colorado at Denver. He has been an instructor in many concrete seminars and short courses directed towards architects, engineers, and contractors across the United States and abroad. He has published over 150 articles, coauthored *Excavation Safety* published by the Aberdeen Group, and been a contributing writer for *Concrete Contractor* magazine. Dr. Basham has also served as an expert witness in numerous litigation and arbitration cases concerning concrete construction, materials, and engineering.

Prior to KB Engineering, Dr. Basham worked as a structural engineer with Concrete Engineering Specialists LLC, Structural Services Inc. and a concrete/construction engineer with Baker Concrete Construction Inc. Prior to joining Baker, Basham was the Engineering Director for World of Concrete and Contributing Editor for *Concrete Construction* magazine. He was also the Director of Engineering for CTC-Geotek, Inc. and an Assistant Professor of Civil Engineering at the University of Wyoming and the Virginia Military Institute. Dr. Basham specializes in structural analysis, concrete design, mix designs, concrete specifications and preconstruction, formwork, shoring and reshoring, temporary structures, mass concrete placements, concrete forensic investigations, structural evaluations, condition surveys, destructive and nondestructive testing, concrete repair, concrete construction techniques, and concrete technology and research.

#### Please complete the registration form below (can be filled out in Adobe Acrobat or printed and completed).

Registrant Name:				
Company/Organization:				
Phone Number:		Email Address:		
Choose Amount of Payment:		\$265. <sup>50</sup> (\$295 Less 10%) OACI Corporate M membership: \$500 yearly fee*, se for all members of your organization	*Individual membership: \$90 yearly fee*	al Member
Add-On Option:	\$200 Vendor Tabletops Ava (Space is	ailable *	To Register for an OACI Members Visit: www.OregonACI.org	
<b>PAYMENT I</b>	NFORMATIC	)N		
Pay By Credit Card: MAIL or EMAIL	By checking this box, you au OACI to run the credit card ir for the total amount above.			ke payable "OACI"
Name: As it appears on Credit Card				
Credit Card #:				
Credit Card Exp Date:		3-Digit On back of Cr	Code: redit Card	
Billing Zip Code:				
Register Via Mail: with check (made out to "OACI") or credit carc information completed, send to	d <b>P.O. Box 2958</b> ca	egister Via Email: with and information attache aci@comcast.net		acj
For more informatio	on: Call 503.753.307	75 or Visit wy	ww.OregonACI.org	



The S.E.A.O. and O.A.C.I. have joined together to hold another day of golf, fun and prizes for 2017! We've selected a brand new location for this year's tournament, the Reserve's North Course in Aloha, just outside of Hillsboro, OR!

Designed by the award-winning Bob Cupp, the Reserve's North Course is a more expansive, open air course that captures a lot of Oregon's low land landscapes, including the rolling hills of the valleys, and grassy coastal dunes. Measuring up to 6,845 yards, this par-72 course will be an excellent new location for the tournament and our players.

Per usual, we will have a shotgun start at 1pm, and capping the evening with dinner, beverages, and prizes for participants and their teams.

We look forward to seeing everyone come out again for our annual golf tournament, and are confidant this well be the best one yet!

# WHEN:

DATE: Wednesday, July 19th SHOTGUN START: SOCIAL HOUR: **DINNER & AWARDS:** 

1:00PM 6:00PM 6:30-7:30PM

# TOURNAMENT:

4-Person Scrambles

# **CONTACT:**

Jane Ellsworth ph: (503) 753-3075 em: jane@seao.org

#### Don't forget to bring money for the raffle prizes and string! This year's raffle prizes will be:

- → 42" TV
- $\rightarrow$  Apple Watch
- $\rightarrow$  Nike Wedge
- $\rightarrow$  Ocean Tuna Fishing Trip for 2
- → Power Washer
- → YETI Cooler
- $\rightarrow$  Gift Cards
- → Much more!

# The Reserve, Vineyards & Golf Cours 1:00 PM - SHOTGUN STAR

# WHERE:

The Reserve (North Course) 4805 SW 229th Ave. Aloha, OR 97007 Phone: (503) 649-8191

# DINNER

Dinner Will Be Served

# FEES:

Golf & Dinner:	\$125/person
(Includes golf cart &	driving range)
SEAO Young Members Forum:	\$85
Mulligan:	\$5/ea

#### Appropriate "Country Club" attire is required:

- $\rightarrow$  Collared Shirts
- $\rightarrow$  No Denim
- $\rightarrow$  Shorts must have a 6" inseam
- $\rightarrow$  Soft spikes only

### NO REFUNDS FOR **CANCELLATIONS AFTER JUNE 28th**

PLEASE RETURN	Player Names	Green Fees	Membership	Payment Enclosed
THIS ENTRY FORM		☐ Golf & Dinner – \$125	□seao □oaci	\$
<b>BY JUNE 28<sup>th</sup> TO:</b> s.e.a.o.		☐ Golf & Dinner – \$125	□seao □oaci	\$
9220 SW Barbur Blvd. #119		☐ Golf & Dinner – \$125	□seao □oaci	\$
PMB #336		□ Golf & Dinner – \$125	□seao □oaci	\$
Portland, OR 97219 (503) 753-3075 Phone			Included: 1 (one	e) five-foot string per group.
(503) 214-8142 Fax Mulligan Add-Ons (1 Mulligan = 1 Shot Per Person)				
Check Enclosed	🗌 Mulligans – \$5 ea (l	Limit 5 Per Foursome)	Qty	\$
VISA / MasterCo	ard / 🗌 AMEX Accepted	1	т	otal \$
Name On Card:	Cα	ırd #:	Exp	p. Date:
Contact Number:	Billing Zip	Code:	_ 3-Digit Code On Back C	)f Card:

2017 SEAO/OACI	OREGON	JULY 19 <sup>TH</sup> , 2017 <sup>1™</sup> Shotgun Start <b>The Reserve</b> Vineyards and Golf Course
GOLF TOURNAMENT		Contact Info:
Donation / Hole Sponsor Form		Jane Ellsworth (503) 753-3075
		oaci@comcast.net
Sponsor Information:		<u>oaci@comcasi.nei</u>
Company Name:		
Contact Name:		
Phone:	Fax:	
Email:		
HOLE SPONSORSHIP (can choose either or both)		

CORE SPONSORSHIP - \$250 - Comes with individual tee signage, recognition on signage/banners at both the dinner and driving range.

PREMIUM SPONSORSHIP - \$1,000 - Complete setup at the tee of one of two available, 3-par holes. Will include recognition from SEAO/OACI at the dinner.

# **WE THANK YOU FOR YOUR SUPPORT!**

If you or your company would like to sponsor more than the above hole sponsorships, please check any of the additional sponsorship items below, or the option to sponsor/donate your own raffle prize:

RAFFLE PRIZE SPONSORSHIPS	SPECIAL SI	PONSORSHIPS
<ul> <li>42" TV   \$600</li> <li>Apple Watch   \$400</li> <li>Garmin GPS Golf Wawtch   \$200</li> <li>Traeger Grill   \$600</li> <li>Ocean Tuna Fishing Trip for 2   \$600</li> <li>YETI 65 Cooler   \$400</li> <li>iFly Gift Card   \$90</li> <li>Iop Golf Gift Card   \$150</li> <li>Power Washer   \$500</li> <li>Escape Room for Four   \$120</li> </ul>	<ul> <li>         \$150         On Coust         \$400         </li> <li>Tee Off         \$250         19<sup>th</sup> Hol         \$250         Golf Co         \$200     </li> </ul>	Long Putt Hole Sponsor urse Drink Refreshment Sponsor (Host drink cart for one beverage per participant to be redeemed during play) Sponsor (Host keg of Micro-brew) le Sponsor (Host keg of Micro-brew) art Sponsor (Host the golf carts with a sign in each cart with your company name) ard Sponsor (Host the scorecards with the name of your company on each card)
Would you like to sponsor/donate you         raffle prize? (ex: Mariner's seats, Blazers seather in the seather in	ats, etc) S F	ease Return This Form A.S.A.P. to: S.E.A.O. 2220 SW Barbur Blvd., Suite #119, PMB #336 Portland, OR 97219 Email: oaci@comcast.net
VISA / MasterCard / AMEX A	-	Total \$
Name On Card:	Card #:	Exp. Date:
Contact Number:	. Billing Zip Code:	3-Digit Code On Back Of Card: