70th Annual
Shellfish Growers
Conference and Tradeshow

Campbell’s Resort on Lake Chelan
Chelan, WA
October 11-14, 2016
Welcome to the 70th Annual Shellfish Growers Conference and Tradeshow. Over the four days, growers, researchers, agency staff, industry partners, and students will explore new research findings, consider public policy issues facing the shellfish industry, share stories and learn from each others’ experiences. You may even take home a few pearls of wisdom!

As little as five years ago, it was considered rude to have your face in your cell phone during a conference. Now, it’s encouraged thanks to the proliferation of social media. If you are new to hashtags, don’t miss the Plenary Session on #HowToHashtag. The main purpose of the hashtag is to organize social media posts around one topic. For the 70th Annual Shellfish Growers Conference, the hashtag is #shellfish70. This allows followers who can’t attend the conference to participate through the event hashtag. Share things you like and learn, as well as new experiences with #shellfish70!

On behalf of the 2016 Conference Planning Committee, thank you for the generous volunteers, growers, sponsors and auction donators who contribute their time, service and energy in making this annual event a success. Thank you, also, for your part in the health and future of the aquaculture industry. We invite you to share what you have learned, be receptive to new ideas and welcome new opportunities and partnerships that will help all of us realize success.

2016 Annual Conference Planning Committee

Margaret P. Barrette, PCSGA Executive Director
Connie Smith, PCSGA Assistant Director
Becky Mabardy, PCSGA Outreach and Project Coordinator
C.J. Johnson, PCSGA Administrative Assistant
Laura Hoberecht, NSA-PCS Chair, NOAA
P. Sean McDonald, NSA-PCS Vice-Chair, University of Washington
Philippa Kohn, NSA-PCS Secretary, Washington Department of Fish & Wildlife
Bethany Stevick, NSA-PCS Treasurer, Washington Department of Fish & Wildlife
David Fyfe, NSA-PCS Member at Large, Northwest Indian Fisheries Commission
Julie Barber, NSA-PCS Member at Large, Swinomish Tribe
Molly Jackson, NSA-PCS Member at Large, Taylor Shellfish
Ralph Riccio, Fundraising Team, Jamestown S’Klallam Tribe
Brett Dumbauld, USDA-ARS

Tuesday, October 11

8:00  Schley Golf Scramble  Bear Mountain Golf Course. Pre-registration required.
12:00 Lunch on your own
2:00  PCSGA Annual General Meeting (AGM), River Room
     Open to PCSGA Grower Members only, in good standing.
6:00  Bogey & Hoagie: Putt-Putt Golf and Picnic Dinner
     The Green at Don Morse Park is an 18-hole putting course overlooking Lake Chelan. Pre-registration required.
**Plenary Session, Stehekin Room**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00</td>
<td><strong>Conference Welcome:</strong> Margaret P. Barrette, PCSGA and Laura Hoberecht, NSA-PCS</td>
</tr>
<tr>
<td>9:15</td>
<td><strong>#HowtoHashtag:</strong> P. Sean McDonald, University of Washington - SAFS. Expand your social media presence and marketing coverage with tools that connect you with online communities.</td>
</tr>
<tr>
<td>9:30</td>
<td><strong>Keynote Speaker:</strong> Julie Qiu, Social Media Blogger, “In A Half Shell.” Cultivate skills to build a positive half-shell experience and share your passion for all things shellfish with an online audience.</td>
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<tr>
<td>10:15</td>
<td>Coffee Break Sponsored by AquaTechnics</td>
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<tr>
<td>10:30</td>
<td><strong>John Lentz Keynote Speaker:</strong> Lessons Learned by an East Coast Shellfish Hatchery and a Plan For Tackling Climate Change, Bill Mook, Mook Sea Farms, Maine.</td>
</tr>
<tr>
<td>11:15</td>
<td><strong>An Overview of Current Research in the Birthplace of Modern Shellfish Aquaculture -- The Milford Laboratory:</strong> Dr. Gary Wikfors, NOAA Northeast Fisheries Science Center</td>
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<tr>
<td>11:45</td>
<td><strong>Update on Federal Shellfish Permitting Issues:</strong> Susan Bunsick, NOAA Office of Aquaculture</td>
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**Centennial Ballroom**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00</td>
<td><strong>Luncheon and Speaker:</strong> Cynthia Nims, a Washington-based oyster aficionado and author of Oysters, shares how to best celebrate flavor through tips, tricks, and tools for pairing, shucking and much more.</td>
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**Concurrent Session A, Stehekin Room A**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:00</td>
<td><strong>Shellfish Jambalaya - Part 1</strong></td>
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<td></td>
<td>Moderator: Bob Rheault, East Coast Shellfish Growers Association</td>
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<td></td>
<td><strong>Top Ten Recommendations from the SIP Team to Improve the Permit Process in WA</strong>, Laura Hoberecht, NOAA Fisheries WCR</td>
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<tr>
<td>2:30</td>
<td><strong>Assessing the Cost and Impact of Regulations</strong>, Jonathan van Senten, Virginia Tech Seafood AREC</td>
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<tr>
<td>2:45</td>
<td><strong>How Shellfish Growers Can Contribute to an Oil Spill Response</strong>, Eli Lieberman, WA Dept. of Ecology</td>
</tr>
<tr>
<td>3:00</td>
<td><strong>East Coast Aquaculture Permitting: Lessons Learned from 14 States That are Still Working This Out (BMPs for Regulators)</strong>, Bob Rheault, East Coast Shellfish Growers Association</td>
</tr>
<tr>
<td>3:15</td>
<td><strong>People, Perspectives, and Permitting in Geoduck Aquaculture</strong>, P. Sean McDonald, University of Washington</td>
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**Concurrent Session B, Stehekin Room B**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td></td>
<td><strong>Beyond Bivalves: Emerging Species</strong></td>
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<td></td>
<td>Moderator: Bobbi Hudson, Pacific Shellfish Institute</td>
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<tr>
<td>2:00</td>
<td><strong>The Effect of Temperature on Early Development of the Giant California Sea Cucumber in a Hatchery Setting</strong>, Kendra Baird, Evergreen State College</td>
</tr>
<tr>
<td>2:15</td>
<td><strong>The Effect of Diet on Survival, Growth, and Radula Morphology of Haliotis Kamtschatkana Post Larvae</strong>, Lillian Kuehl, Western Washington University</td>
</tr>
<tr>
<td>2:30</td>
<td><strong>The Effects of Microaglal Diet on Growth and Survival of California Sea Cucumber Larvae</strong>, Stuart Ryan, Puget Sound Restoration Fund</td>
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<tr>
<td>2:45</td>
<td><strong>Sugar Kelp Culture Status in Alaska</strong>, Bobbi Hudson, Pacific Shellfish Institute</td>
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<tr>
<td>3:00</td>
<td><strong>Urchinomics: The Farming of Sea Urchins on Shellfish Infrastructure, and How Shellfish Growers can Turn an Ecological Crisis into an Economic Opportunity</strong>, Brian Tsuyoshi Takeda, Urchinomics</td>
</tr>
<tr>
<td>3:15</td>
<td><strong>Development in Aquaculture for Purple Hinge Rock Scallop</strong>, Joth Davis, Taylor Shellfish Farms</td>
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Coffee Break Sponsored by Rock Point Oyster Company

**Wednesday Continued On Next Page...**
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<tr>
<th>Concurrent Session A, Stehekin Room A</th>
<th>Concurrent Session B, Stehekin Room B</th>
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<tbody>
<tr>
<td><strong>Shellfish Jambalaya - Part 2</strong></td>
<td><strong>Beauty &amp; Brawn - Broodstock Development</strong></td>
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<tr>
<td>Moderator: Alice Helker, Puget Sound Restoration Fund, Set &amp; Drift Shellfish</td>
<td>Moderator: Dennis Hedgecock, University of Southern California</td>
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<td>3:45</td>
<td>4:00</td>
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<tr>
<td><strong>Update from the Kenneth Chew Center for Shellfish Research &amp; Restoration</strong>, Alice Helker, Puget Sound Restoration Fund</td>
<td><strong>Non-Stationary, Non-Equilibrium Genetic Structure of the North American Pacific Oyster Population</strong>, Dennis Hedgecock, University of Southern CA</td>
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<td>4:00</td>
<td>4:15</td>
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<tr>
<td><strong>Recommendations of the Oregon Shellfish Taskforce</strong>, Gil Sylvia, Oregon Coast Marine Experiment Station, Oregon State University</td>
<td><strong>Genetic by Environment Interactions for Desirable Traits of the Pacific Oyster, Crassostrea gigas, on the West Coast of the United States</strong>, Romain Morvezen, Oregon State University</td>
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<td>4:15</td>
<td>4:30</td>
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<tr>
<td><strong>PSI 20 Year Restropective of Shellfish Shenanigans</strong>, Dan Cheney, Pacific Shellfish Institute</td>
<td><strong>Update on the Molluscan Broodstock Program--Status of Midori and Kumamoto Stocks</strong>, Chris Langdon, Oregon State University</td>
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<td>4:30</td>
<td>4:45</td>
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<td><strong>Washington Shellfish Initiative--Phase II: Progress and Opportunities</strong>, Julie Horowitz, Washington State Governor's Office</td>
<td><strong>Predicting Geoduck Reproductive Maturation with Proteomic Tools</strong>, Emma Timmins-Schiffman, University of Washington</td>
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<td>4:45</td>
<td>5:00</td>
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<tr>
<td><strong>Overview of Offshore Shellfish Activities in Southern California</strong>, T. Diane Windham, NOAA West Coast Regional Aquaculture Coordinator - CA</td>
<td><strong>Opening Night Tradeshow Reception, Centennial Room</strong></td>
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**Wednesday, October 12, Continued**

5:00 pm -- Opening Night Tradeshow Reception, Centennial Room  
Sponsored by Duncan and Associates Insurance Brokers and Penn Cove Shellfish

6:30 pm -- Film: “Ground Operations: Battlefields to Farmfields” (Stehekin A)  
Introduced by Dan Barth of Patriot Shellfish Farm, this 40-minute screening shows how America needs a million new farmers, and veterans want the job.

7:00 pm -- NSA-PCS Student Fundraiser

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**A Special Thank You To:**

**Norplex Inc** for generously hosting the Hospitality Suite, year after year!

Room 5423, Lodge 5

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**Shellfish Donors**

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<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Concurrent Session A, Stehekin Room A</td>
<td><strong>Ensuring a Healthy Product Through Monitoring and Traceability</strong></td>
<td>Hans Hurn, Confluence Environmental</td>
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<td></td>
<td></td>
<td><strong>Black Market Shellfish Trafficking</strong></td>
<td>Deputy Chief Mike Cenci, Lt. Paul Golden, and Sgt. Erik Olson, WA Dept. of Fish and Wildlife</td>
</tr>
<tr>
<td>8:30</td>
<td>Concurrent Session B, Stehekin Room B</td>
<td><strong>Changing Conditions: It's More Than Chemistry</strong></td>
<td>Joth Davis, Taylor Shellfish Farms</td>
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<td><strong>Using Seaweed to Mitigate Ocean Acidification in the Salish Sea</strong></td>
<td>Joth Davis, Taylor Shellfish Farms</td>
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<td>8:45</td>
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<td><strong>Time Temperature Indications (TTIs)-Current Applications and Usage for Vibrio Monitoring in Shellfish</strong></td>
<td>Dr. Peter Ronnow, Vitsab</td>
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<td>9:00</td>
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<td><strong>Online Shellfish Growing Area Maps: Improving Communication, Transparency and Up-to-Date Harvest Safety</strong></td>
<td>Scott Berbells, WA Department of Health</td>
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<td>9:15</td>
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<td><strong>Washington Department of Fish &amp; Wildlife: Harmful Algae Bloom Monitoring and Management Actions in Response to Harmful Algal Blooms</strong></td>
<td>Zack Forster, WA Department of Fish &amp; Wildlife</td>
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<tr>
<td>9:30</td>
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<td><strong>New Science in Washington's Biotoxin Program</strong></td>
<td>Audrey Kuklok, WA Dept. of Health</td>
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<td>9:45</td>
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<td><strong>Exploring Drivers of Fecal Coliform Pollution Trends in the Puget Sound</strong></td>
<td>Trevor Swanson, WA Dept. of Health</td>
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<tr>
<td>10:00</td>
<td></td>
<td><strong>Developing a Global Seafood Traceability Initiative and Architecture: Major Issues, Guiding Principles, Costs and Benefits</strong></td>
<td>Gil Sylvia, Oregon Coast Marine Experiment Station, Oregon State University</td>
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<td>10:15</td>
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<td>Coffee Break Sponsored by <strong>Alaska Packaging</strong></td>
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<td>10:30</td>
<td>Concurrent Session A, Stehekin Room A</td>
<td><strong>A Passport for Shellfish Farming</strong></td>
<td>Margaret Barrette, PCSGA</td>
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<td><strong>The Difficulties and Possibilities of Farming Shellfish in France</strong>, French Delegation led by Phillipe Maraval, Comité National de la Conchyliculture</td>
<td>Chris Sherman, Island Creek Oysters</td>
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<td>10:45</td>
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<td><strong>Discussion à propos de délicieux crustacés continue.</strong></td>
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<td>11:00</td>
<td>Concurrent Session B, Stehekin Room B</td>
<td><strong>Digging into Shrimp Management</strong></td>
<td>Brett Dumbauld, USDA-ARS</td>
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<td><strong>Application of the Extractable Lipofuscin Aging Method to Estimate Mortality and Population Dynamics of the Burrowing Shrimp, Neotrypaea californiensis</strong></td>
<td>Brett Dumbauld, USDA-ARS</td>
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<td><strong>Neotrypaea Population Dynamics 2: Where Are Those Shrimp Coming From and How Long Before it's an Issue for My Shellfish Bed?</strong></td>
<td>Brett Dumbauld, USDA-ARS</td>
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<tr>
<td>11:15</td>
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<td><strong>Modern Shellfish Farming in Ancient Hawaiian Fishponds</strong>, Amanda Lowrey, Hawaii Dept. of Health</td>
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<td>11:30</td>
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<td><strong>Lunch on Your Own</strong></td>
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*Thursday Continued On Next Page...*
**Concurrent Session A, Stehekin Room A**

**Brightest Minds on Shellfish Health (Q&A)**
Moderator: Ralph Elston, AquaTechnics

Shellfish diseases don't affect human health, but they do threaten the health of farmed and wild shellfish. A wide-spread outbreak of any shellfish disease would likely have severe consequences to the west coast shellfish industry.

**Shellfish Health Panel Participants:**
- Ted Meyers, AK Dept. Fish & Game
- Brady Blake, WA Dept. Fish & Wildlife
- Philippa “Pippa” Kohn, WA Dept. Fish & Wildlife
- Jim Moore, CA Dept. Fish & Wildlife
- Tom Lehman, Animal & Plant Health Inspection Service
- Colleen Burge, Johns Hopkins University

**Complex World of Estuarine Life**
Moderator: Phil Bloch, Confluence Environmental Co.

- **2:30** Shellfish Aquaculture Related Ecosystem Services: Water Quality Improvement Through Bivalve Culture, Suzanne Bricker, NOAA National Estuarine Eutrophication Assessment
- **2:45** Seagrass & Shellfish: Measuring Habitat Use in West Coast Estuaries, Bobbi Hudson, Pacific Shellfish Institute
- **3:00** An Examination of the Use of Seascape Scale Habitats Including Oyster Aquaculture and Zostera marina by Fish and Crab in Pacific Northwest Estuaries, Larissa Clarke, Oregon State University

**Passing the Torch Through Public Engagement**
Moderator: P. Sean McDonald, University of WA

- **3:30** Evaluating the Effect of Z. japonica Removal on the Community Composition and Utilization of Intertidal Habitats by Fish and Crab in Willapa Bay, WA, Daniel Sund, Oregon State University
- **3:45** Japanese Eelgrass--What Effect Does its Control in Willapa Bay Have on Birds, Fish, Invertebrates, and Zostera marina, Kim Patten, WA State University
- **4:00** Shellfish Aquaculture and the Environment: The Wild World of Scientific Literature, Marlene Meaders, Confluence Environmental Co.
- **4:15** That FLUPSY in My Bay: Should I Be Worried About It?, Gary Wikfors, NOAA Northeast Fisheries Science Ctr.
- **4:45** PCSGA Member Reception with Bill Mook
  *Hospitality Suite, Room 5423, Lodge 5*

**Concurrent Session B, Stehekin Room B**

**Walk on the Wild Side**
Moderator: Don Velasquez, WA Dept. of Fish & Wildlife

**1:30** Harvesting 6 1/4 Male Dungeness Crabs-- A “Best Management Practice?” Perhaps Not, Don Velasquez, WA Dept. Fish & Wildlife

**1:45** The (Future) Recovery of California Sea Cucumber Stocks in Washington, Henry Carson, WA Dept. Fish & Wildlife

**2:00** A Spatio-Temporal Hot Spot Analysis of Salish Sea Clam Species, James Mc Ardle, Swinomish Indian Tribal Community

**2:15** The Increasing Prevalence of Tanner Crab, Chionoecetes bairdi, as By-Catch in the Puget Sound Commercial Dungeness Crab Fisheries, Don Rothaus, WA Dept. of Fish & Wildlife

**2:30** Determining Effectiveness of Dungeness Crab Escapement in Derelict Traps Commonly Used in the Washington Waters of the Salish Sea, Paul Rudell, Natural Resources Consultants, Inc.


**3:00** Temporal and Spatial Distribution of Olympia Oyster (Ostrea lurida) Early Life History in Puget Sound, WA, Megan Hintz, University of Washington

**3:15** Coffee Break Sponsored by Alaska Packaging
Friday, October 14

Stehekin Room

8:30  The Vendor Gear-Up: Tide-Tested, Grower Approved
     Tradeshow Vendor Spotlight

9:00  Workshop: Low Cost Techniques for Screening Oyster Spat and Larvae for Fitness in a
      Changing Ocean: Led by George Waldbusser, Oregon State University

10:00 Shellfish Shorts: 5-Minute “Ignite” Style Talks with 20 Automatically Advancing Slides
     1. Estimating Recreational Efforts from Aerial Surveys of Shellfish Harvesters using Mobile Devices
        Roy Clark, WA Department of Fish & Wildlife
     2. Farm Based Vibrio parahaemolyticus Avoidance Techniques,
        Andy Suhrbier, Pacific Shellfish Institute
     3. Crab Management Under Climate Change
        P. Sean McDonald, University of Washington
     4. Investigating Adaptation Strategies to Remediate Acidic Conditions on Juvenile Clam Survival
        Courtney Greiner, Swinomish Indian Tribe, University of Washington
     5. Functional Role of Shellfish Aquaculture Habitats: A New Project Comparing Invertebrate and Fish Use of Eelgrass and Shellfish Habitats
        Beth Sanderson, NOAA Fisheries
     6. Sea Cucumber Aquaculture in Washington State, An Update on a Pilot Scale Study
        Andy Suhrbier, Pacific Shellfish Institute

10:45 Coffee Break

Down on the Farm  Moderator: Ian Jefferds, Penn Cove Shellfish

11:00 The Number One Way to Control Seed Costs, Jim Gibbons, Seattle Shellfish
11:15 Geoduck Mesh Tubes, Brian Phipps, Taylor Shellfish
11:30 Small Farming Without Big Equipment, Duane Fagergren, Calm Cove Oyster Co.

11:45 Workshop: When Things Go Wrong -- Crisis Communication for Business:
     Led by Michael Collins, MGC Consulting LLC

Thursday, October 13 at 6:30 pm
Grand Awards Banquet at Centennial Ballroom
Student & Industry Awards
Silent Auction
Sponsored by Plauché & Carr LLP

To make the 2017 conference even more successful, please complete the post-event survey in your folder. Thank you in advance for your comments and suggestions.

12:15 pm -- Conference Adjourns: Thank you for attending and participating!
Thank you to the Tradeshow Exhibitors and PCSGA Allied Members

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Lacey, WA 98516
(360) 359-4641
www.wsfb.com

Washington State Dept. of Commerce
David Boyd
PO Box 42525
Olympia, WA 98504

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Save the Date:
71st Annual Shellfish Conference and Tradeshow
September 18-21, 2017
The Resort at The Mountain, Welches, Oregon