



# 2018 Western Regional Meeting

## DATES

Monday – Wednesday  
September 24 – 26

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## LOCATION

The Heathman Lodge  
Vancouver, Washington

**Reservations cutoff is  
Sunday, September 9**

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## SPECIAL EVENT

### Dinner Cruise

To celebrate NCASI's 75<sup>th</sup> anniversary, all meeting attendees are invited to join us on Tuesday evening for a dinner cruise on the Portland Spirit. Transportation will be provided from the hotel.

**RSVP deadline is  
Monday, September 10**

## FINAL CALL

### and Updated Preliminary Agenda

**We are proud to announce that 2018 marks the 75<sup>th</sup> anniversary of NCASI!** The 2018 Regional Meetings will celebrate this significant milestone and the combined accomplishments of industry environmental leaders and NCASI staff over the past 75 years.

NCASI Regional Meetings are a “must-attend” for mill, forest landowner, and corporate environmental professionals, regardless of job experience. These meetings are the primary forums connecting NCASI technical studies to real-time issues impacting facilities and working forests. Regional Meetings also serve to highlight the breadth and depth of NCASI expertise and resources available to Member Companies. Attending the meeting is the best way to leverage this information toward solving operational issues.

**It is NCASI's goal to have every Member operating facility represented at one of the Regional Meetings and celebrations.**

Plans are being finalized for the 2018 Western Regional Meeting scheduled for Monday through Wednesday, September 24-26, at the Heathman Lodge in Vancouver, Washington. The program is being organized by a team of NCASI Staff with guidance from the West Coast Regional Committee.

Details can be found in the preliminary agenda herein.

This year's meeting will continue the tradition of sharing technical and regulatory information of interest to the forest products industry in this region. The program will include discussions of NCASI and industry technical and forest management studies, as well as important regulatory developments. Attendance by member company personnel and invited regulatory and university researchers concerned with these areas is encouraged.

## PROGRAM

Three **workshops** are planned for Monday afternoon, September 24:

- Environmental Regulations “Bootcamp” covering essential federal environmental regulations and their application in the forest products industry
- Two sequential roundtable discussions on water and air permitting (concurrent with the Bootcamp)
- A combined workshop on Leveraging NCASI Resources

Immediately following the workshops on Monday NCASI will host a reception to welcome all attendees to the Western Regional Meeting.

Tuesday morning’s **General Session** will feature summary perspectives on NCASI’s contributions over 75 years and cover other topics of regional regulatory and technical interest.

The **Water Quality Technical Session** and **Wood Products Technical Session** will be held concurrently on Tuesday afternoon. Three technical sessions will be held on Wednesday. The **Sustainability Technical Session** will begin in the morning and be followed by the **Air Quality Technical Session** through the afternoon. The **Forestry Technical Session** will also begin in the morning and continue through the afternoon. Details for each session are provided on the **Preliminary Agenda** included with this notice.

On Tuesday evening, registrants are invited to participate in a **dinner cruise on the Portland Spirit** in celebration of NCASI’s 75 years of service to the industry. Buses will provide transportation to and from the meeting hotel. The cruise and dinner are included with registration to the meeting, and non-participating guests may attend for a nominal fee. The cruise operators will require photo identification for boarding. **RSVPs must be received by Monday, September 10.**

## REGISTRATION

Those planning to attend the meeting can register online at [2018 Western Regional Meeting](#).

Government agency personnel and university staff are asked to share the cost of the meeting by paying a reduced registration fee. Lunch will be provided on each day for those who pre-register, and all registrants are invited to attend the Monday reception and the Tuesday dinner cruise.

Those with Professional Engineering, Certified Forester, or other certifications should note that NCASI is an approved Continuing Professional Competency sponsor and can offer professional development credits to those attending this Regional Meeting.

## LODGING

A block of rooms has been reserved at the Heathman Lodge with a **cutoff date for reservations of Sunday, September 9**. Reservations can be made by telephoning the Heathman Lodge at 888-475-3100 prior to the cutoff date and requesting NCASI's room rate. A special rate of \$143.00 (plus taxes and fees) per night has been arranged for the NCASI Western Regional Meeting. Upgrade to 'Business Level' is available for an additional fee. Note that the room block rate is not available when making reservations online.

## ADDITIONAL INFORMATION

A preliminary agenda is included herein. If you have questions about the meeting, please contact Paul Wiegand (919-941-6417 or [pwiegand@ncasi.org](mailto:pwiegand@ncasi.org)). Jake Verschuyl (360-293-4748 or [jverschuyl@ncasi.org](mailto:jverschuyl@ncasi.org)) can assist with matters regarding the Forestry Session. For general information or registration concerns, contact Karen Phelps ([kphelps@ncasi.org](mailto:kphelps@ncasi.org)) at the West Coast Regional Center.

We look forward to seeing you at the 2018 Western Regional Meeting!

[Register  
Here](#)

# 2018 NCASI Western Regional Meeting

## Overall Outline

### Monday, September 24, 2018 – Workshops

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|-----------------------|--|
| 12:00 NOON to 3:00 PM | Environmental Bootcamp – Environmental Regulations |
| 12:00 NOON to 1:30 PM | Air Permitting Roundtable                          |
| 1:30 PM to 3:00 PM    | Water Permitting Roundtable                        |
| 3:15 PM to 4:30 PM    | Leveraging NCASI Resources                         |
| 4:45 PM to 6:00 PM    | Welcome Reception                                  |

### Tuesday, September 25, 2018

- |                       |   |
|-----------------------|---|
| 8:00 AM to 12:00 NOON | General Session<br>Fort Vancouver Ballrooms       |
| 12:00 NOON to 1:30 PM | Lunch<br>Lewis and Clark Ballrooms                |
| 1:30 PM to 4:30 PM    | Water Quality<br>General Marshall/Grant Ballrooms |
| 1:30 PM to 4:30 PM    | Wood Products<br>General Howard Ballroom          |
| 5:00 PM               | Buses Depart for Dinner Cruise                    |
| 6:00 PM – 9:00 PM     | Dinner Cruise                                     |

### Wednesday, September 26, 2018

- |                     |   |
|---------------------|---|
| 8:00 AM to 10:00 AM | Sustainability<br>General Marshall/Grant Ballrooms        |
| 10:30 AM to 4:30 PM | Air Quality<br>General Marshall/Grant Ballrooms           |
| 8:00 AM to 5:00 PM  | Forest Watersheds and Wildlife<br>General Howard Ballroom |
| 11:30 AM to 1:30 PM | Lunch<br>Lewis and Clark Ballrooms                        |

# **Workshop and Webcast Environmental Bootcamp – Environmental Regulations in the Pulp and Paper Industry**

Monday, September 24, 2018  
12:00 to 3:00 PM  
(lunch provided)

Moderators – Paul Wiegand, Derek Sain, and Zach Emerson, NCASI  
Aaron Day, Trinity Consulting

This workshop will review the system of federal regulations that apply to the pulp and paper industry. The discussion will include a summary of the regulations, background and history of application to the industry, and current topics related to managing environmental programs in compliance with these regulations. The workshop is designed for new-to-position staff at pulp, paper, and wood products facilities as well as those desiring a refresher on regulations. The session and webcast will be open to all individuals eligible for attendance at the NCASI Western Regional Meeting (including NCASI Member Companies, government agency staff, and those with academic affiliations).

Regulations to be covered will include:

- Clean Air Act (CAA)
- Clean Water Act (CWA)
- Resource Conservation and Recovery Act (RCRA)
- Toxic Substances Control Act (TSCA)
- Superfund Amendments Reauthorization Act (SARA)
- Spill Prevention Control and Countermeasures (SPCC)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

The workshop will be webcast for participants not planning to travel to the Western Regional Meeting. NCASI Member participants will be provided with an electronic copy of NCASI's Handbook of Environmental Regulations and Control Handbooks: Volume 1 – Pulp and Paper Manufacturing, and Volume 2 – Wood Products Manufacturing.

The workshop is free to those registered for one or more days of the Western Regional Meeting. The cost for attending the workshop only will be \$75. There is no charge for participating in the webcast.

## **Workshop**

### **Roundtables on Air and Water Permitting**

Monday, September 24, 2018

12:00 to 3:00 PM

(lunch provided)

Moderators – Zach Emerson and TBD, NCASI

The workshop will consist of two sequential roundtables covering current topics in air and water permitting in Oregon, Washington, and Idaho. Discussion topics may include the Oregon air toxics rule, developments in MACT permitting, updates to the Washington Permit Writers Guide, Oregon NPDES permitting, and implementation of recently updated water quality criteria in the region.

## **Workshop**

### **Leveraging NCASI Resources**

Monday, September 24, 2018

3:15 to 4:30 PM

Moderator – Paul Wiegand, NCASI  
with Vipin Varma, Kirsten Vice, and Ben Wigley, NCASI

The workshop will provide participants with an introduction to each of NCASI's primary technical programs and a summary of the resources that are available to Member Companies as part of each program area. The session will be followed by an informal reception to encourage networking with meeting attendees.

# General Session

Tuesday, September 25, 2018

8:00 AM to 12:00 NOON

Fort Vancouver Ballrooms

Moderator – Russell Strader, Boise Cascade

- 8:00 Welcome and Introduction  
*Paul Wiegand, NCASI*  
*Russell Strader, Boise Cascade*
- 8:20 Opening Remarks – Celebrating NCASI’s 75<sup>th</sup> Anniversary  
*Dirk Krouskop and Reid Miner, NCASI*
- 9:00 Career Reflections and Influential Science  
*Bently Wigley and Reid Miner, NCASI*
- 9:30 Break
- 10:00 Update on Priorities at EPA Region 10  
*Anthony Barber, US Environmental Protection Agency*
- 10:30 Emerging AF&PA Priorities and Focus Areas  
*Paul Noe, American Forest and Paper Association*
- 11:00 Carbon Policy in the Northwest  
*Chris McCabe, Northwest Pulp and Paper Association*
- 11:30 Forest Watershed and Wildlife Science Affecting Wood Supplies in the West  
*Darren Miller, NCASI*

# Water Quality

Tuesday, September 25, 2018

1:30 to 4:30 PM

General Marshall/Grant Ballrooms

Moderator – Terry Bousquet, NCASI

- 1:30 Water Regulatory Developments and Other Issues of Regional Interest  
*Paul Wiegand and Giffe Johnson, NCASI*
- 2:00 Water Quality Protection Program Priorities in Oregon and Washington  
*Susan Braley, Washington State Department of Ecology*  
*Justin Green, Oregon Department of Environmental Quality*
- 2:45 Fecal Indicator Bacteria – Site-Specific Assessment Tools and Alternative Tests  
*Terry Bousquet and Renee Ragsdale, NCASI*
- 3:10 Break
- 3:30 Aerated Stabilization Basin Dredging Plan Development and Evaluation  
*Bryan Carroll, American Process Group*
- 4:00 Arsenic and Copper: Measurement, Aquatic Chemistry, and Ambient Conditions  
*Barry Malmberg, NCASI*  
*Jeff Nason and Joe Mitzel, Oregon State University (invited)*



# Wood Products

Tuesday, September 25, 2018

1:30 to 4:30 PM

General Howard Ballroom

Moderator – Ric Law, NCASI

- 1:30 Update on EPA PCWP MACT Activities  
*Tim Hunt, American Forest and Paper Association*
- 2:00 NCASI Technical Support for Current EPA PCWP MACT Activities  
*Rob Crawford, NCASI*
- 2:30 Thermophilic Biofilter Implementation at an MDF Plant  
*John Bird, Arauco North America*
- 3:00 Break
- 3:30 Atmospheric Dispersion Modeling Approaches for Lumber Kilns – Potential Pitfalls and Solutions  
*Chad Darby, Brian Eagle, and Brian Snuffer, Maul Foster & Alongi*
- 4:00 Wastewater Pretreatment/Treatment Considerations for Wood Products Facilities  
*Andrew Hodgkinson, Jacobs Consultancy*

# Sustainability

Wednesday, September 26, 2018

8:00 to 10:00 AM

General Marshall/Grant Ballrooms

Moderator – Barry Malmberg, NCASI

- 8:00 Public Perception and Trends in Measuring Sustainability of Forest Products  
*Kirsten Vice, NCASI*
- 8:20 The Natural Capital Protocol and the Forest Products Sector Guide – Overview and Case Studies  
*Luis Rochartre, World Business Council for Sustainable Development*
- 9:00 The Role of Beneficial Use in the Pursuit of a Circular Economy  
*Derek Sain and Caroline Gaudreault, NCASI*
- 9:30 North American Solid Residual and Beneficial Use Practices  
*Barry Malmberg, NCASI*

# Air Quality

Wednesday, September 26, 2018

10:30 AM to 4:30 PM

General Marshall/Grant Ballrooms

Moderator – Zach Emerson, NCASI

- 10:30 Air Quality Topics of Regional Interest in Oregon and Washington  
*Ali Mirzakhilili, Oregon Department of Environmental Quality*  
*Philip Gent, Washington State Department of Ecology*
- 11:15 Air Quality – Regulatory Update and Focus Areas in this Session  
*Vipin Varma, NCASI*
- 11:30 Lunch
- 1:30 BACT and LAER for Air Toxics – Overview and Case Studies  
*Anna Henolson and Beth Ryder, Trinity Consultants*
- 2:00 Novel Techniques for Refined Emissions Estimates for Process Sources  
*Zach Emerson, NCASI*
- 2:30 Test Program to Measure Air Toxics in Kraft Digester Non-Condensable Gases  
*Josh Childers, Clean Air Engineering*
- 3:00 Break
- 3:30 Planning and Implementation of the Subpart MM RTR Rule Changes  
*TBD, All4, Inc.*
- 4:00 Update on NCASI Air Quality Research Activities  
*TBD, NCASI*

# Forest Watersheds and Wildlife

Wednesday, September 26, 2018

8:00 AM to 5:00 PM

General Howard Ballroom

Moderators – Ashley Coble and Jake Verschuyl, NCASI

- 8:00 eDNA as a Tool for Identifying Freshwater Species in Sustainable Forestry: A Critical Review and Potential Future Applications  
*Dr. Ashley Coble, NCASI*
- 8:30 Assessing Forest Carnivore Diet and Predation Risk using Scat Derived DNA  
*Dr. Katie Moriarty, NCASI*
- 9:00 Three-Dimensional Partitioning of Resources by Northern Spotted Owls and Barred Owls  
*Dr. Julie Jenkins, USDA Forest Service Pacific Northwest Research Station*
- 9:30 Understanding Dissolved Oxygen Concentrations in the Alsea Watershed Study Revisited: It's a Gas  
*Dr. George Ice, NCASI (ret.)*
- 10:00 Break
- 10:30 Fish Community Response following Timber Harvest at Mica Creek, Idaho  
*John Gravelle, University of Idaho*
- 11:00 Relating Salmonid Population Health to Natural Turbidity Regimes in Northwest Streams  
*Dr. Doug Martin, Martin Environmental*
- 11:30 Lunch
- 1:30 Effects of Intensive Forest Management on Avian Abundance  
*Dr. Jake Verschuyl, NCASI*
- 2:00 Effects of Herbicides and Herbivory in Determining Early Seral Plant Communities  
*Dr. Thomas Stokely, Oregon State University*
- 2:30 Quantifying Tradeoffs between Intensive Forest Management and Biodiversity  
*Dr. Andrew J. Kroll, Weyerhaeuser*
- 3:00 Break
- 3:30 Habitat-Specific Response of Stream Invertebrates to Sand and Silt Cover on the Stream Benthos in the Coastal Ecoregion  
*Dr. Patrick Edwards, Portland State University*
- 4:00 How Creating Riparian Forest Canopy Gaps Affects Algae, Invertebrates, and Fish in Headwater Streams  
*Dr. Dana Warren, Oregon State University*
- 4:30 Forest Carbon Dynamics in Oregon and Washington using Forest Inventory and Analysis (FIA)  
*Dr. Steve Prisley, NCASI*