

## **WFGA/NWSOMA meeting – June 23-24, 2015.**

**University of Washington, Center for Urban Horticulture  
Seattle WA**

### **Tuesday am JOINT SESSION**

**8:00 - 8:10: Greetings and conference details**

**8:10 – 8:20: Welcome address – Rob Mangold – Director; USFS Pacific Northwest Research Station**

### **8:20 – 12:00 APPLIED GENOMICS: SCIENCE AND PUBLIC PERCEPTIONS**

#### **Invited Talks**

**8:20 – 9:00 Ross Whetten – "What are genomic technologies, and are they cost-effective for applied tree breeding?"**

**9:00 – 9:40 Sally Aitken – AdapTree survey results of public perception of genetics**

**9:40 – 10:00 Break**

**10:00 – 10:40 Kevin Folta - Rethinking Communication in Agricultural Biotechnology**

**10:40 – 11:20 James Curry and Cintia Ribeiro - Public Policy Challenges in Agricultural Biotechnology and Opportunities in Tree Biotechnology**

**11:20 – 12:00 Panel discussion – Mike Warjone facilitator**

**12:00 -1:00 Joint Lunch**

### **1:00 – 3:00 CONCURRENT WFGA AND NWSOMA SESSIONS**

#### **NWSOMA session**

**1:00 – 1:30 Welcome and Issues Roundtable - **Moderator TBD****

**1:30 – 1:45 Harvest options for old orchards - **Mike Crawford (BLM)****

**1:45 – 2:00 New Orchard Technology – Drone use in orchard management - **Mike Crawford (BLM)****

**2:00 – 2:45 Efficacy of systemic injections of emamectin benzoate and imidacloprid to control Douglas-fir cone gall midge and fir coneworm in Douglas-fir seed orchards - **Alex Mangini (USFS)****

2:45 – 3:00 Succession planning in industrial orchard management and contractor recruitment - **Mike Warjone**, Port Blakely Tree Farms and **Keith Jayawickrama**, NW Tree Improvement Cooperative

#### **WFGA CONCURRENT SESSIONS**

1:00 – 1:15 **Brad St. Clair** – In memoriam of Tom Ledig  
1:15 – 1:35 **Nick Wheeler** - Forest genetic and tree improvement research in the US: past, present and future  
1:35 – 1:55 **Ian MacLachlan** - The effects of selective breeding on adaptive phenotypic traits in interior lodgepole pine. **(Student)**  
1:55 – 2:15 **Cheng Ding** - Genetic parameters of growth and adaptive traits for aspen (*Populus tremuloides*): implications for tree breeding. **(Student)**  
2:15 – 2:35 **Jon Degner** - Using genotyping-by-sequencing (GBS) to elucidate population structure in Oregon white oak (*Quercus garryana*). **(Student)**  
2:35 – 2:55 **Marcus Warwell** - Phenotypic selection and genecology of growth rhythm in whitebark pine (*Pinus albicaulis*) grown 12 years under climate warmer and drier than climate of origin. **(Student)**  
2:55 – 3:15 **Andy Bower** – Population genetics of Baker cypress

**3:15 – 3:45 Break**

**3:45 – 5:30 Tour of Center for Urban Horticulture/Arboretum/Campus interests**

**5:30 - 6:30 Poster Session/cocktail hour**

**6:30 - 9:00 Banquet at CUH – Jack Nesbit speaking**

#### **WEDNESDAY AM JOINT SESSION**

#### **8:00-10:00 QUANTITATIVE GENETICS AND RESPONSE TO CLIMATE CHANGE**

##### **Invited Talks**

8:00 – 8:40 Rong-Cai Yang - Genotype × environment interaction in plant breeding: to avoid it or to exploit it?  
8:40 – 9:20 Connie Harrington - Rise and Shine! How winter temperatures affect the timing of spring budburst and diameter growth  
9:20 – 10:00 Ingo Ensminger - Tree responses to environmental cues

10:00 – 10:30 Break

## **10:30-12:00 WFGA and NWSOMA CONCURRENT SESSIONS**

### **NWSOMA CONCURRENT SESSION**

10:30 – 10:50 **Lisa Worthen** – Phenology, dichogamy, and floral synchronization in a northern red oak (*Quercus rubra* L.) seed orchard.

10:50 – 12:00 Panel Discussion: Controlled Mass Pollination (CMP) in Douglas fir.

### **WFGA CONCURRENT SESSIONS**

10:30 – 10:50 **Keith Woeste** - Estimating heritability of disease resistance and long-term survival in butternut (*Juglans cinerea* L.) confronting an invasive fungal disease

10:50 – 11:10 **Charlie Cartwright** - Whitebark Pine Provenance Trials: Early Results.

11:10 – 11:30 **Olga Grant** - Contrasting ecophysiology and growth of genetically diverse Sitka spruce seedlings grown under limited vs. optimal water availability.

11:30 – 11:50 **Jessica Wright** - Assessing range-wide natural variation in Valley Oak (*Quercus lobata*) using a newly established provenance test

## **12:00 – 1:00 JOINT LUNCH**

### **1:00 – 3:00 WFGA SESSIONS**

1:00 – 1:20 **Arnaldo Ferreira** – Managed Relocation of tree genetic resources under climate change

1:20 – 1:40 **Valerie Hipkins** - Project CAPTURE: A National Prioritization Assessment of Tree Species for Conservation, Management, and Restoration

1:40 – 2:20 **Andy Bower** – Climate change and forest trees in the Pacific Northwest: a vulnerability assessment and recommended actions for National Forests.

2:20 – 3:00

## **3:00 – 3:20 BREAK**

### **3:20 – 5:00 WFGA Business meeting**