

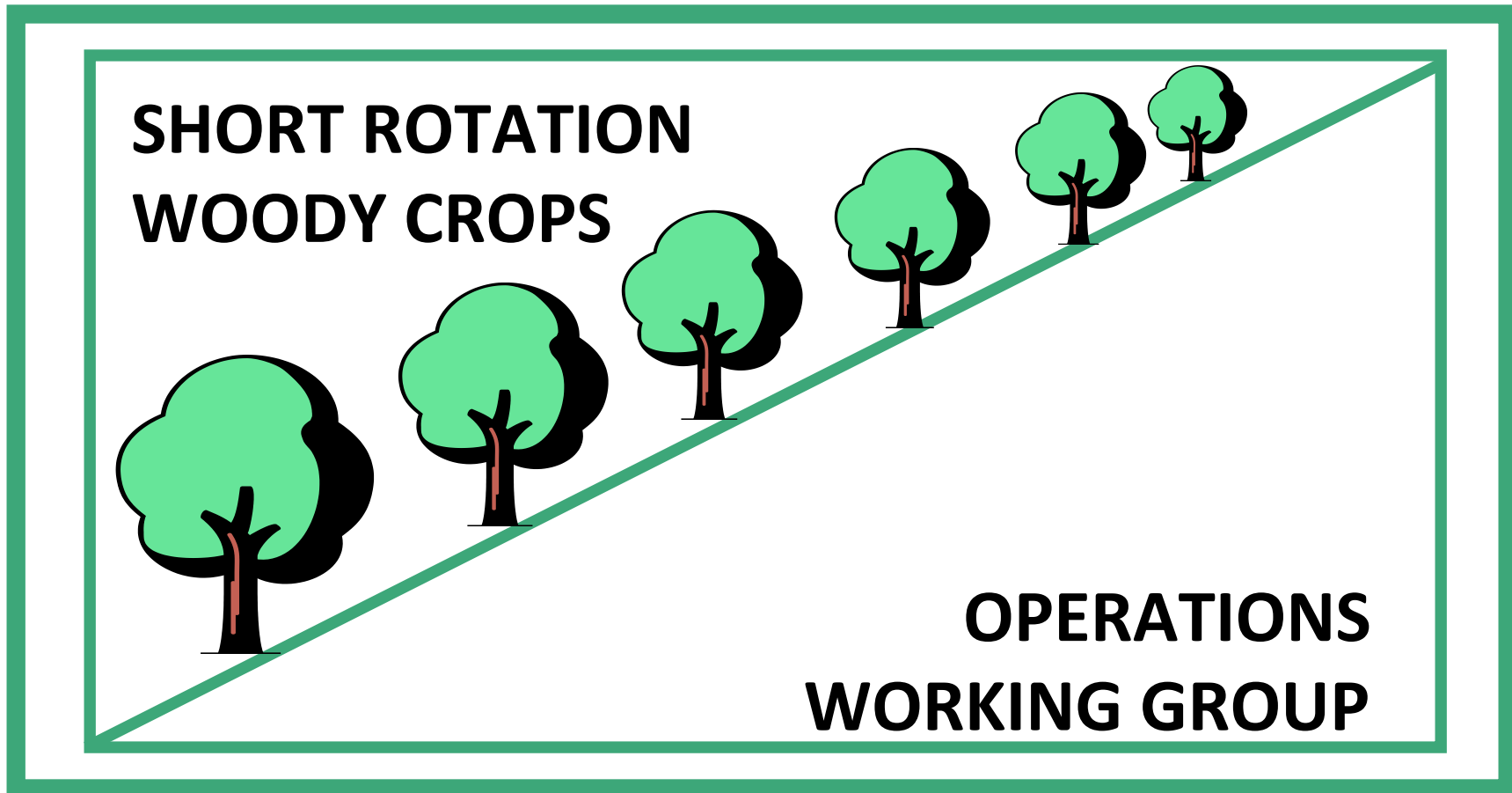


A LOOK BACK AND FORWARD

Lynn Wright
SRWCOWG, 2013-14 Chair
July 17, 2014

Happy Anniversary – 20 years

Two Rotations and Evolving



By Lynn Wright, WrightLink Consulting, 2014 building on the 10th Anniversary Presentation of Bryce Stokes and 10 years of meetings

Let's Remember

**Don Johnson, WSU
Poplar physiologist
Passed in ~ 2009**



**Jake Eaton, Potlatch/GWR
SRWCOWG Chair
3 terms: 2001 – 2006
Passed in 2012**



**Ian Nicholas
Willow researcher
New Zealand
Passed in 2012**



Bryce Stokes*
Visionary “Father” of SRWCOWG
First chair - 1995-98



Bryce began as early as 1988 to develop collaborations between industry and government researchers to develop better ways to harvest and handle woody crops.

***with USDA FS for many years**

SRWCOWG Precursor

Mechanization Conference

Alabama - March 1994



Demo's of harvesting sycamore short rotation



Hosted by Scott Paper and Morbark

Organized by Bryce Stokes



Sept 95 – Organizing Committee Met*

**Our Goal –Produce Big
Timber in 10 Years or Less!**

**“Mission: Promote
collaborative efforts in
developing needed operations
for SRWC plantations that
comply with principles of
economic viability, ecological
soundness, and social
acceptance”**



We always think BIG!

*Sponsored by USDA Forest Service-Southern Research Station (Bryce Stokes) and DOE's Oak Ridge National Laboratory (Lynn Wright and Bob Perlack) with industry participation

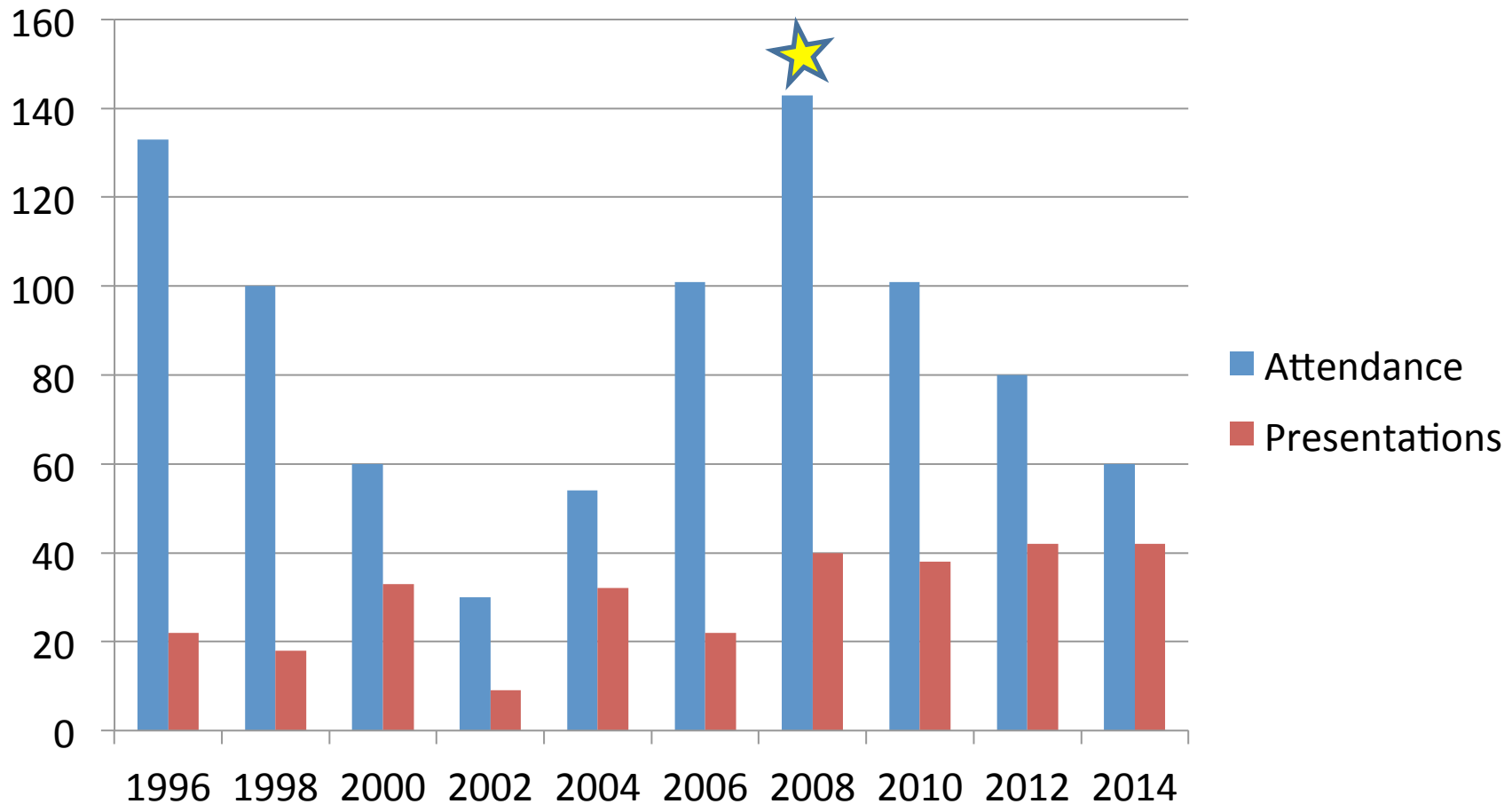
SRWCOWG Conference History

Locations: 1996 - 2014



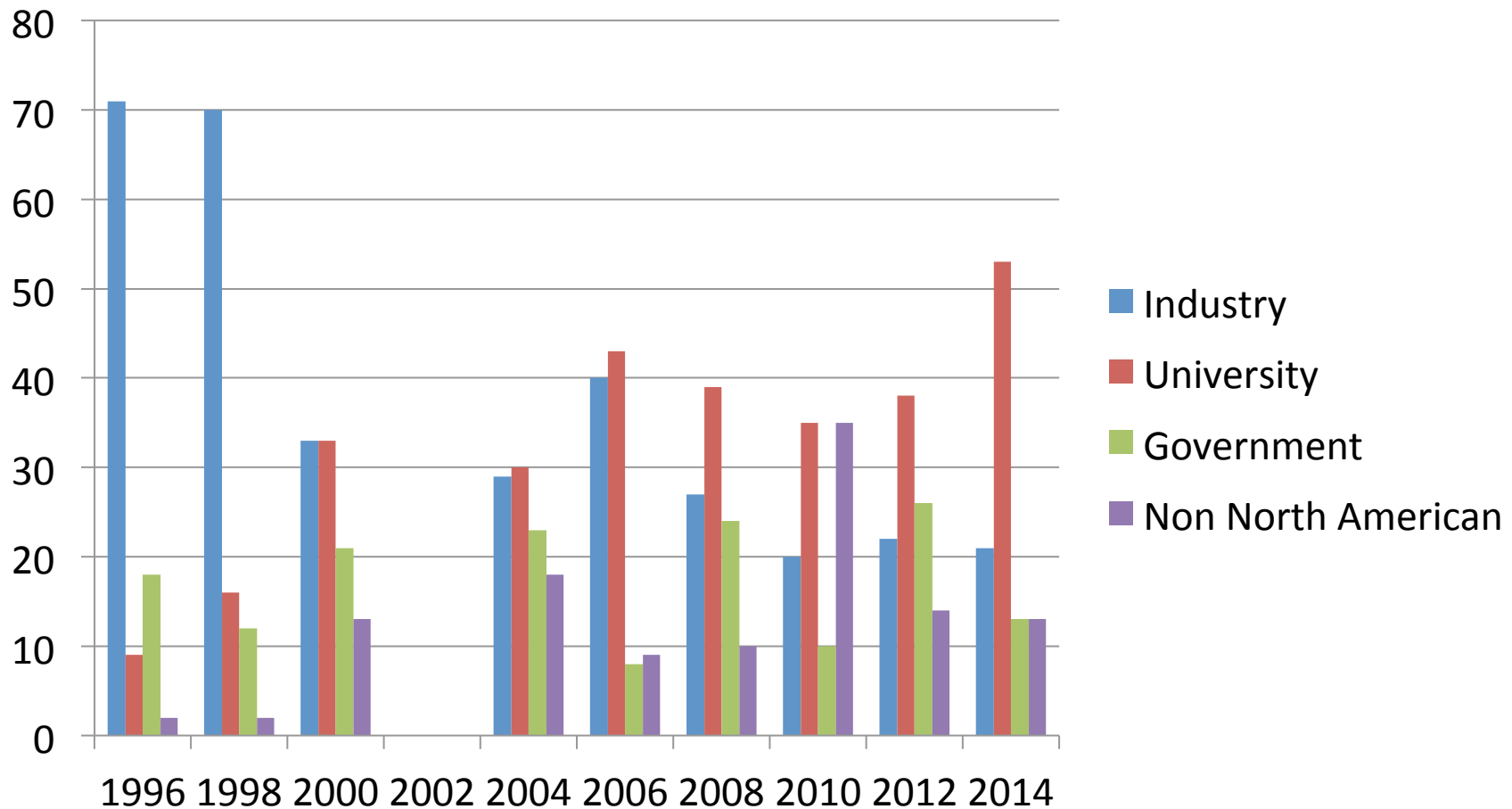
SRWCOWG Conferences

Attendance and Presentations

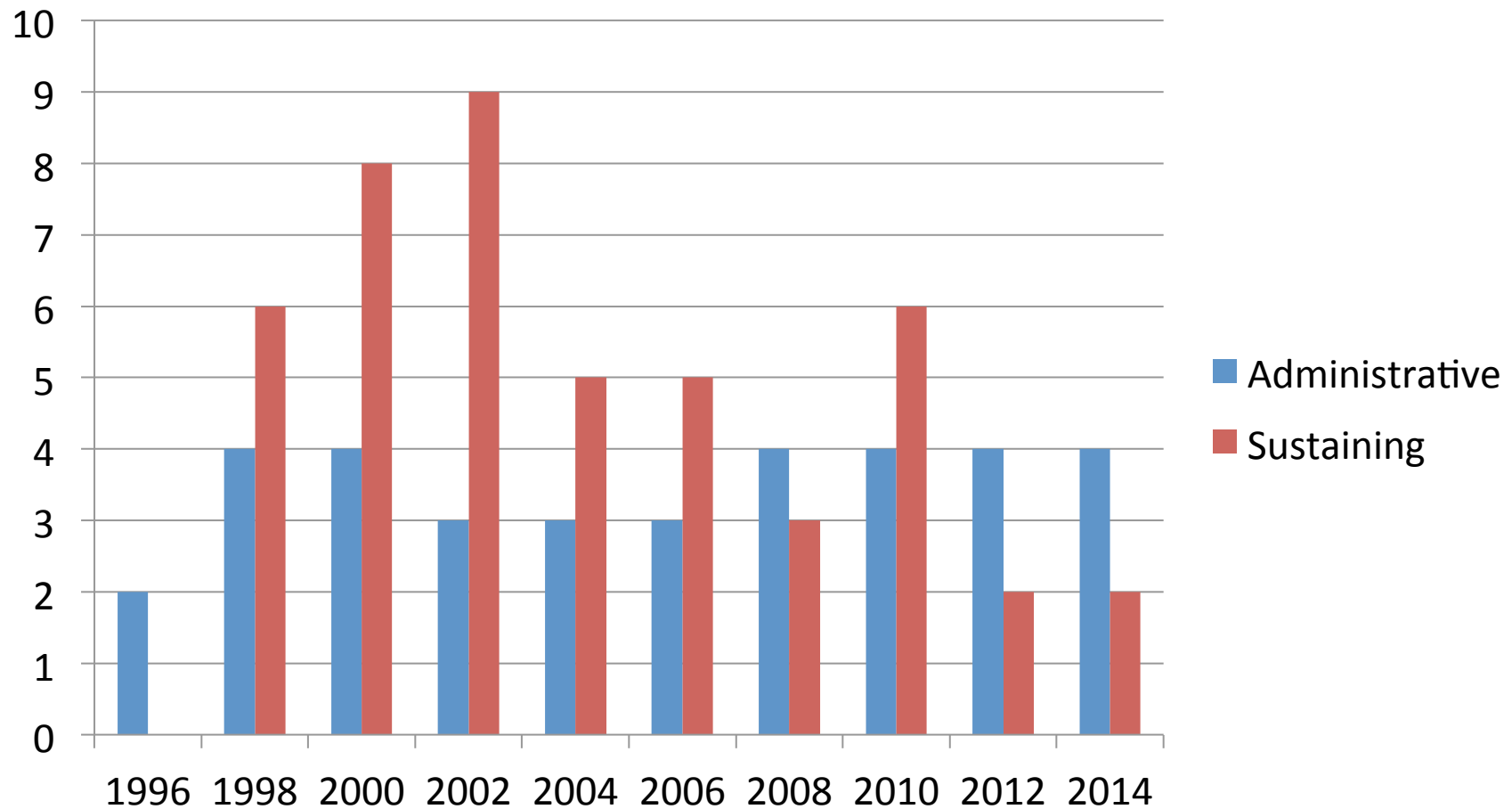


International Conference with expanded focus

Conference Attendee Affiliations (percentages)



Number SRWCOWG Sponsors



SRWCOWG Leadership

Period	Chair	Type Organization
1995-96	Bryce Stokes	Government/USFS
1997-98	Bryce Stokes	Government/USFS
1998-99	Bruce Hartsough	University/UC-Davis
1999-00	Vic Ford	Industry/Westvaco
2001-02	Jake Eaton	Industry/Potlatch
2003-04	Jake Eaton	Industry/Potlatch
2005-06	Jake Eaton	Industry/Potlatch
2007-08	Marilyn Buford	Government/USFS
2009-10	Tim Volk	University/SUNY
2011-12	Mark Downing/Tim Rials	Gov (ORNL)/Univ. (UT)
2012-14	Lynn Wright	Consultant

Administrative Sponsors

- *Electric Power Research Institute: 1998-2000*
- ***National Council of the Paper Industry for Air & Stream Improvement : 1999 -2014******
- *Oak Ridge National Laboratory: 1995-2012*
- *USDA Forest Service: 1995 - 2008*
- ***WrightLink Consulting: 2009 -2014***
- ***University of Tennessee/Sungrant Center: 2009 – 2014***
- *State University of New York: 2000, 2010*
- ***Washington State University: 2014***

Sustaining Sponsors

- *Agricultural Development Services, LLC*
- *American Cyanamid Company – 1998-2000*
- ***ArborGen 2012-2014***
- *BASF Corporation – 2001-2002*
- *B. B. Hobbs Company – 1998-2002*
- ***Boise Cascade Corporation – 1998-2007***
- *Catalyst Renewables – 2010-2011*
- *CNH America LLC – 2010-2011*
- *Double A Willow – 2010-2011*
- *DuPont Ag or Forestry Products – 2000- 2002*
- ***GreenWood Resources – 2004-2014***
- *Irrigation Mart – 2004-2009*
- *Morbark Industries Corporation – 1998-2002*
- *Netafim Irrigation, Inc. – 1998-2002*
- *Peterson Corporation –2004-2009*
- ***Potlatch Corporation – 2001-2007***
- *Rain Bird Agri-Products – 2001-2002*
- *Toro Ag/Drip-In Irrigation Company – 1998-2002*
- *Westvaco Corporation – 1996, 2000-2002*

1st SRWCOWG Biennial Conference

September 23-25, 1996 Paducah, KY

Tour of Westvaco operations



Conference topics:

Nursery management

Weed control

Animal damage

Fertigation

Post-harvest site prep



2nd Biennial SRWCOWG Conference
August 1998 Vancouver, WA
Tours at Boardman, City of Woodburn

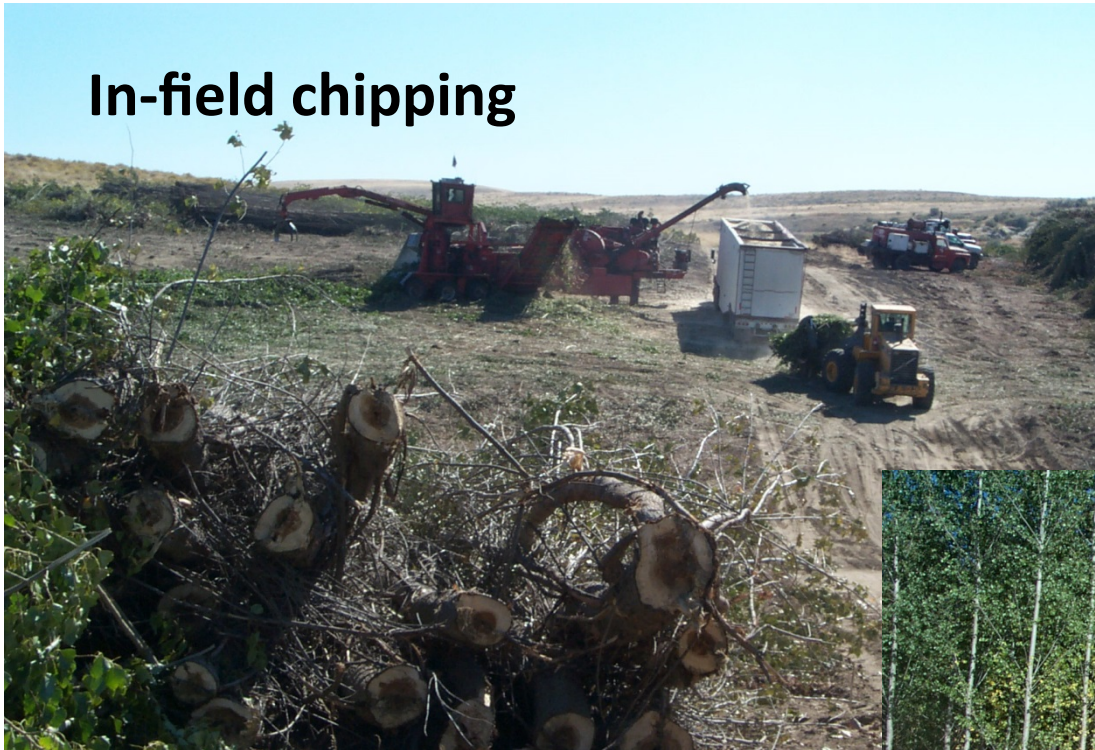


Conference Topics:
Regional Production strategies
Fertigation & Weed control
Harvesting strategies
Waste water use on poplars



6th Biennial SRWCOWG Conference & Boardman Tour
September, 2006 Pasco, WA
Hosted by Potlatch & Boise Cascade

In-field chipping



Stem pruning trials

Conference topics
Phytoremediation
Breeding & Genomics
Carbon sequestration
Bioenergy production
Wildlife use of plantations



Feller buncher harvester

Tour of GreenWood Resources Boardman, OR Plantations and Zea Chem Operations – 10th Conference July 16-17, 2014



New operations techniques for timber and biomass production, Boardman, OR



2014 Conference Topics and “take-away” Information

- Excellent R&D coordination eg. ABH & IBSS
- Willow triploids are better yielders
- Silver maple and Black locust rediscovered
- Hybrid sweetgum promising for SE
- SRWC yield maps from multiple approaches
- Spacing & rotation length issues re-evaluated
- Euc cold tolerance limits distribution in North Carolina
- CNH harvest capacity cap exists
- Environmental benefits in Ireland, BMP's effective in SE
- New Soil carbon data in Lake States!, RUSLE2 erosion data in NE
- Marginal land economics being evaluated for SRWC
- Economies of scale still needed for biorefinery profitability

Memorable Statements/ Observation/ Future Directions?

- “Failure is not an option” – Jeff Nuss
- “We convince by doing things first” – Jeff Nuss
- “Pathology problems could be solved with coordination with breeding” – Glen Stanoz
- “Any fool can screw up yields; extension to growers extremely important” – Ray Miller
- “Primary product is bioremediation” & “Cows pass wind; willow use can offset” – Alistair McCracken”
- OBS – More young people involved!!
- There will be a future for SRWC – many options!