

**10<sup>th</sup> International IUFRO 1.05.00 Workshop on Uneven-aged Silviculture  
Doubletree Hotel, Little Rock, Arkansas, USA**

**MONDAY, MAY 30, 2016**

**1500-1700 Registration at the Doubletree Hotel, 1<sup>st</sup> floor Lobby**

**1700-1900 WELCOMING RECEPTION  
Clinton School of Public Service, University of Arkansas  
1200 President Clinton Avenue  
Little Rock, Arkansas, USA**

**TUESDAY, MAY 31, 2016**

**0700-1700 Registration, Doubletree Conference Center, 2<sup>nd</sup> floor, Grand Ballroom  
0700-0800 Breakfast Buffet (provided)  
Salon A, Doubletree Hotel**

**0800 OPENING SESSION  
Palisades Room, Doubletree Hotel**  
Welcome: Jim Guldin, Workshop Coordinator  
Gary Kerr, Chair  
IUFRO 1.905.00 Uneven-aged Silviculture Working Group

**SESSION I: Uneven-aged silviculture, Around the World  
Palisades Room, Doubletree Hotel  
Moderator: TBA**

**0820-0900 Forest management on the Duchy of Cornwall  
Geraint Richards, Head Forester, Duchy of Cornwall (invited)**

**0900-0920 Diversified uneven-aged silviculture delayed conifer decline in Dinaric mixed  
mountain forest: A result of gap spatiotemporal dynamics or tending  
operations?  
Jurij Diaci, Matevz Adamic, Andrej Rozman, David Hladnik, University of  
Ljubljana, Slovenia**

**0920-0940 Comparison of natural and artificial forest regeneration after windthrow  
Gal Fidej, Andrej Rozman and Jurij Diaci. University of Ljubljana, Slovenia**

**0940-1000 How to use the art of Nature? Steady state in natural temperate forests as  
the prototype for close-to-nature forestry  
Tomáš Vrška and Kamil Král, Silva Tarouca Research Institute, Brno,  
Czech Republic**

**1000-1030 Morning break (provided)  
Salon A, Doubletree Hotel**

**1030-1050 Does complexity of leaf arrangement moderate the impact of drought stress?  
Hiromi Mizunaga and Takaharu Mochizuki, Shizuoka University, Shizuoka,  
Japan**

**1050-1110 High-value wood with continuous-cover management in Scots pine forests**

**Riika Piispanen** and Sauli Valkonen, Finnish Forest Research Institute, Finland

- 1110-1130 Ground disturbance improves natural regeneration in high-graded old-growth forests  
**Daniel P. Soto** and Klaus J. Puettmann, Oregon State University, Corvallis, Oregon, USA
- 1130-1150 The Bradford-Hutt system for transforming young even-aged stands to continuous cover management  
**Gary Kerr**, Commonwealth Forestry Institute, United Kingdom  
Coauthors: Mark Snellgrove, Sophie Hale, and Victoria Stokes
- 1200-1315 **Lunch Buffet (provided)**  
**Salon A, Doubletree Hotel**

## **SESSION II: QUANTITATIVE ELEMENTS OF UNEVEN-AGED SILVICULTURE**

**Palisades Room, Doubletree Hotel**

**Moderator:** Andreas Zingg, WSL, Birmensdorf, Switzerland

- 1315-1335 Effect of partial cutting on windthrow in old-growth boreal stands: evidence from field experiments and modelling  
**J-C. Ruel**, Laval University, Quebec, Canada  
Coauthors: K.A. Anyomi and S.J. Mitchell,
- 1335-1355 The spatial-temporal patterns of Larch plantations and uneven-aged silviculture in Northeast China- based on multi-source remote sensing data  
**Jiao-jun Zhu**, Qingyuan Forest Ecosystem Research Station, Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China  
Coauthors: Gui-duo Shang, Tian Gao, Xiao Zhen
- 1355-1415 Tree light capture and spatial variability of understory light increase with species mixing and size heterogeneity  
**Gauthier Ligot**, Univ. de Liège, Gembloux, Belgium  
Coauthors: Aitor Ameztegui, Benoît Courbaud, Lluís Coll, Dan Kneeshaw
- 1415-1435 Modeling growth and yield and economic tradeoffs of even- and uneven-aged management in bottomland hardwood forests of the Lower Mississippi Alluvial Valley  
**Sunil Nepal**, Brent R. Frey, and James E. Henderson, Mississippi State University, Starkville Mississippi, USA
- 1435-1455 Long-term windthrow susceptibility of even- and uneven-aged sugar maple dominated stands  
**Philippe Nolet**, Université du Québec en Outaouais, Ripon, QC Canada
- 1455-1515 Maintaining the coexistence of tree species of different shade tolerances with uneven-aged silviculture  
**Gauthier Ligot**, Univ. de Liège, Gembloux, Belgium  
Coauthors: Philippe Balandier, Benoît Courbaud, Daniel Kneeshaw, Hugues Claessens

1515-1535 Diameter distributions implied by individual tree growth equations for uneven-aged forests  
**Thomas B. Lynch**, Oklahoma State University, Stillwater, Oklahoma USA  
Coauthors: Pradip Saud, Jeff Gove, Mark Ducey

1535-1600 Introduction to the Field Tour  
Jim Guldin and Don C. Bragg, Southern Research Station  
US Forest Service

1600-1800 **POSTER SESSION, RECEPTION (included) and cash bar**  
**Salon A, Doubletree Hotel**  
**DINNER—on your own, River Market District, Little Rock**

#### **POSTERS:**

A New Look at Uneven-aged Silvicultural Methods and Responses in New England Beech-Birch Maple Stands, USA. W.B. Leak, **M. Yamasaki**, and C. Costello. Northern Research Station, USDA Forest Service, Durham, NH, USA.

Modeling the Impact of Overstory Density on the Regeneration Dynamics of Missouri Ozark Forests  
**Lance A. Vickers**, University of Missouri-Columbia, Abilene, Texas, USA. Coauthors: David R. Larsen, Benjamin O. Knapp, Daniel C. Dey and John M. Kabrick.

An Extreme Case of Integrative Forest Management: Dead Wood, Beetles, and Woodpeckers in Slovenian Forests, **Tom A. Nagel**, Maarten De Groot, Dejan Firm, Rok Pisek, Al Vrezec, Tomaž Mihelič, Dušan Roženberger, University of Ljubljana, Ljubljana, Slovenia.

Using Multiple Long-term Data Sets to Evaluate Dynamics and Characteristics of Managed Uneven-aged Northern Forest Stands. **Sarita Bassil**, State University of New York, Syracuse, New York USA .

From Natural Disturbance to Uneven-aged Forest Management. **Dušan Roženberger**, Tom A. Nagel, and Jurij Diaci. University of Ljubljana, Ljubljana, Slovenia.

The Effects of Varying Light and Moisture Levels on Pacific Northwest Timber Species. **Olivia L. Moskowitz**, M.M. Aghai, and G.J. Ettl, University of Washington, Seattle, Washington, USA.

Fifty Years of Regeneration Dynamics in an Uneven-aged Acadian Forest. **Nicole S. Rogers**, University of Vermont, Burlington, Vermont, USA. Coauthors: Anthony W. D'Amato, Laura S. Kenefic, and Aaron Weiskittel.

The Scientific Roots of Uneven-aged Silviculture for U.S. Northern Hardwood Forests, **Christel Kern** and Laura Kenefic, Northern Research Station, USDA Forest Service, Grand Rapids, MN.

Factors Affecting Engelmann Spruce Regeneration Success Using the Group Selection Method in Colorado, USA. **Seth Ex**, Ryan Davy, Colorado State University, Fort Collins, Colorado, USA.

Community Forests Management Practice to Maintain Uneven aged Forests Crops in Mountain Region of Nepal. **Sujan Panthi**, Civil Alliance for Mountain Development, Kathmandu, Nepal.

Posters can be set up starting Monday afternoon at 4 pm, May 30, and before 8 am Tuesday, May 31, 2016.

**WEDNESDAY, 1 June 2016**

**WITHIN-WORKSHOP FIELD TOUR**

**UNEVEN-AGED SILVICULTURE IN SOUTHERN PINES  
CROSSETT EXPERIMENTAL FOREST, CROSSETT AR**

0630-0715	Breakfast (provided)
0730	Busses leaves for Crossett AR
1015	Arrive at Crossett
Bus A:	stops 1 and 2 in the morning, stops 3 and 4 in the afternoon
Bus B:	stops 3 and 4 in the morning, stops 1 and 2 in the afternoon
	Stop 1: Unmanaged Reynolds Research Natural Area
	Stop 2: Poor Farm Forestry Forty, uneven-aged silviculture after 79 years
	Stop 3: Good Farm Forestry Forty, uneven-aged silviculture after 79 years
	Stop 4: Industrial Management of Short-Rotation Southern Pines
1200-1300	Lunch in the Tent (provided)
1500	Busses leave to return to Little Rock
1745	Bus arrives at hotel
1815	walk to Dickey-Stephens Baseball Park, North Little Rock
1830-1900	Dinner at the Ball Park (provided, buy your own beverages) Designated catering area in the ball park
1900~2100	Arkansas Travelers vs Corpus Christi Rockets Seats provided for the baseball game
???	walk back to the hotel

**THURSDAY, 2 JUNE 2016**

**0700-0820**                **Breakfast Buffet**  
**Salon A (provided)**

**SESSION III: UNEVEN-AGED SILVICULTURE IN NORTH AMERICA**

**Palisades Room, Doubletree Hotel**

**Moderator: TBA**

- 0820-0900                Sixty years of selection cutting at the Penobscot Experimental Forest, Maine, USA: What worked and what didn't  
**Laura Kenefic**, Northern Research Station, USDA Forest Service, Orono Maine, USA  
Coauthor: Robert Seymour, University of Maine
- 0900-0920                Forest Dynamics in a Long-term record of Uneven-aged Management in a Mixed Oak-Hickory-Pine forest in Missouri, USA  
**David Larsen**, University of Missouri, Columbia, Missouri, USA
- 0920-0940                Effect of silvicultural gap size on long-term species growth, stand yield, and economic value in upland Quercus dominated stands  
**John Lhotka**, Russell A. Cunningham, and Jeffrey W. Stringer, University of Kentucky, Lexington, Kentucky, USA
- 0940-1000                Integrating Ecosystem Services into Uneven-aged Silvicultural Prescriptions to Enhance Sustainable Forest Management  
**Robert L. Deal**, Pacific Northwest Research Station, USDA Forest Service, Portland, Oregon, USA  
Coauthors: Nikola Smith and Joe Gates
- 1000-1030                **Morning break (provided)**  
**Salon A, Doubletree Hotel**
- 1030-1050                Designing a multi-cohort, continuous cover, silvicultural system for Douglas-fir dominated forests in the Pacific Northwest, USA  
**Gregory Ettl**, University of Washington, Seattle, Washington, USA
- 1050-1110                Irregular selection: An uneven-aged management alternative that links science concepts to integrated restoration management  
**Terrie Jain**, Russell T. Graham, Michael Battaglia; Rocky Mountain Research Station, USDA Forest Service, Moscow, Idaho USA
- 1110-1130                Interactions between stand density and stand structure in affecting damage from hurricanes in longleaf pine  
**Kevin O'Hara**, University of California-Berkeley, Berkeley, California, USA  
Coauthor: Jim Guldin
- 1130-1150                Uneven-aged southern pine silviculture, B.C. (Before Crossett)  
**Don C. Bragg**, Southern Research Station, US Forest Service
- 1200-1315**                **Lunch Buffet (provided)**  
**Salon A**

## **SESSION IV: CONVERSION OF EVEN-AGED STANDS TO UNEVEN-AGED STANDS**

**Palisades Room, Doubletree Hotel**

**Moderator:** TBA

- 1315-1335            Human decision-making in the forests: selecting trees for removal during transformation to uneven-aged forest stand structures  
**Lucie Vítková** , European Forest Institute, Freiburg, Germany  
Coauthors: Áine Ní Dhubháin and Arne Pommerening
- 1335-1355            Transformation from even-aged to uneven-aged forest stand structure in Norway spruce forests of the Black Forest, Germany  
**Marc Hanewinkel**, University of Freiburg, Freiburg, Germany  
Coauthors: Dominik Wonsack and Lucie Vítková
- 1355-1415            Uneven-aged silviculture of larch plantations: converting larch plantations into mixed larch-broadleaved forests by thinning  
**Qiaoling Yan**, Qingyuan Forest Ecosystem Research Station, Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China  
Coauthors: Jiaojun Zhu, Guangchen Wang, Jing Wang
- 1415-1445            Moving to uneven-aged silviculture in native forests in Chile: short-term results and expectations  
**Pablo Donoso**, Universidad Austral de Chile, Valdivia, Chile  
Coauthors: Ralph D. Nyland, Bernardo Pilquinao, Florian Schnabel
- 1445-1505            The favorable growth of Scots pine (*Pinus sylvestris* L.) regeneration under the canopy – Does it ensure the success of uneven-aged silviculture ?  
**Janusz Szmyt**, Władysław Barzdajn, and Jacek Zientarski; Poznan University of Life Sciences, Poznan, Poland
- 1505-1525            Impact of Light and Moisture Gradients on the Growth and Physiology of Native Washington Tree Species: Informing Sustainable Timber Management  
**Matthew Aghai** and Gregory Ettl, University of Washington, Seattle, Washington, USA
- 1525-1545            Managing for the parts of the sum: restoration treatments to accelerate late successional structures  
**Klaus Puettmann**, Oregon State University, Corvallis, Oregon, USA
- 1600-1700            IUFRO 1.05.00 Uneven-aged Silviculture Working Group  
Business Meeting  
Gary Kerr, Chair
- 1700                    **ADJOURN**  
1800                    **DINNER—on your own, River Market District, Little Rock**

## **POST-WORKSHOP TOUR**

**The Post-Workshop Tour departs from the Doubletree Hotel on 3 June 2016 at 0730 AM, and returns at 6:00 pm, Monday, 6 June. Details TBA.**