



1.01.06 Ecology and Silviculture of Oaks Fall 2013 Newsletter



Greetings! The purpose of this unit is to provide communications and linkages between researchers interested in the ecology and silviculture of oak species as a means of furthering the science in this area. Towards that purpose, there are two opportunities coming up in 2014 that we have planned. The first opportunity is a technical oral and poster session at the 2014 IUFRO World Congress. The second opportunity is a pre-Congress field trip on Oak Silviculture in the Central Appalachian Mountains. Additional information on both of these opportunities is provided below. The Deputy Coordinators and I would like to hear from you about any news items, interesting research results, or other pertinent topics that we can include in future newsletters. Our email contact information is on the IUFRO website and at the bottom of this newsletter. I'm looking forward to seeing you in 2014!

Kurt W. Gottschalk

Dr. Kurt W. Gottschalk, Coordinator, 1.01.06



(Oak in Seoul South Korea)



(Oak harvest and shelterwood in France)



Oak Regeneration to Maintain Biodiversity around the World – An oral and poster session at the 2014 IUFRO World Congress, Oct 5-11, 2014, Salt Lake City UT, <http://iufro2014.com/>

This session will be a combination of invited speakers who will provide overviews of the importance of oak for biodiversity and ecosystem services along with invited and voluntary papers and posters that provide summaries of oak regeneration issues and solutions for specific

regions of the world and voluntary papers and posters that address more specific studies and results of oak regeneration treatments, the importance of oak forests for biodiversity and ecosystem services, the effects of changing climate on fire patterns and regeneration, and climate change effects on oak range changes.

Oak (*Quercus* spp.) regeneration is a challenging process around the world as changing land use patterns, forestry practices, fire patterns, and climate reduce the areas where conditions favorable to oak regeneration occur. Oak forests are an important component to biodiversity as they provide valuable wildlife habitat, forage, mast, and other critical ecosystem services. For example, work has shown much larger and diverse bird communities in oak dominated forests versus maple dominated forests. Climate change and land use change interact to create changed fire patterns on the landscape. In many parts of the world, oak forests are sustained by fire and these changed fire patterns threaten the sustainability of oak dominated forests via disruption of the regeneration cycle. This session will examine oak regeneration around the world in the context of different silvicultural systems and practices to sustain oak forests and their values within the Congress theme of Forest Biodiversity and Ecosystem Services and also the theme of Forests and Climate Change. Oak forests around the world share many commonalities while also having regional differences. One of the commonalities is their importance in supporting biodiversity and another is their importance in providing ecosystem services, especially on those sites which are on the edge of supporting forests. Oak forests in many areas provide important social values in addition to their biological values. Land use changes in some regions have changed processes like fire and other disturbance patterns such that they no longer support oak regeneration in areas dominated by oak forests. This pattern is further overlaid with changing climate patterns that may result in oak forests shifting in occurrence across regions – some areas can no longer support regeneration while other areas may become suitable for oak regeneration where oak currently does not occur or is only a small component of the forest.

The organizers are especially looking for nominations to present some of our overview and summary presentations. A sampling of proposed titles is given below. If you are interested in nominating someone for these presentations, please contact Dr. Gottschalk via email by October 5. The session organizers will respond by October 10 so that abstracts can be entered before the October 15th deadline. Overview presentations may include:

Oak forests around the world – overview of oak forests, where they occur, their basic ecology and plant biodiversity in them

Value of oak forests for wildlife habitat – importance of oak forests as supporters of animal biodiversity

Value of oak forests for ecosystem services – importance of oak forests as providers of ecosystem services

Climate change and oak regeneration – how climate change will influence the movement of oak forest in the landscape over time

Summary presentations about the issues preventing and silvicultural treatments to obtain successful oak regeneration in various oak regions around the world would be used to compare and contrast oak regeneration. An example title for European oak forests could be “Oak regeneration in Europe”. Similar talks for other regions are welcomed, for example, Central Asia, Eastern Asia, Middle East and North Africa, Eastern North America, Western North America, Central and South America, etc.

To submit an abstract for this session go to: <http://iufro2014.com/scientific-program/abstract-submissions/>, click on “Submit an Abstract” button, log in using email address and password (or create a new profile if you do not have one from the previous World Congress), then click on the new abstract button. In the abstract submission form, enter your abstract title and abstract text, then select Division 1 – Silviculture, whether you want an oral or poster presentation, and very important – select the theme – “**Forest Biodiversity and Ecosystem Services**” and the session – “**247 Oak regeneration to maintain biodiversity around the world**”. Please enter your abstract before the October 15, 2013 deadline.



(Northern red oak in Ontario)



(Northern red oak in Pennsylvania)



Oak Silviculture in the Central Appalachian Mountains United States – A pre-Congress Field Tour, September 29-October 4, 2014.

IUFRO Unit 1.01.06 Ecology and Silviculture of Oaks is sponsoring a 5-day field tour on the ecology and silviculture of mixed oak forests in the Central Appalachian Mountains. The tour will focus on oak regeneration practices and research to tie in with our 2014 IUFRO World Congress session “Oak Regeneration to Maintain Biodiversity around the World”. The tour begins in Washington DC on Monday, September 29 with registration from 5 to 7 pm followed by a tour of National Monuments by night. We will then travel to various sites in Maryland, West Virginia, and Pennsylvania to view eastern mixed hardwood forests that are dominated by oak species. The tentative schedule and sites are given below but the final version may be somewhat different. The tour will arrive in Pittsburgh PA the evening of October 4 and on Sunday October 5th attendees can fly from Pittsburgh to Salt Lake City for the Congress. The

tour is not handicap accessible, but the majority of the field sites are reasonably level and will involve only light to moderate hiking. Tour hosts include the USDA Forest Service Northern Research Station, West Virginia University, Pennsylvania State University, Maryland Forest Service, and Pennsylvania Bureau of Forestry. For additional information contact Dr. Kurt Gottschalk, kgottschalk@fs.fed.us.

Tentative Itinerary:

Monday Sept. 29: registration, DC Monuments by Night tour, overnight in Washington DC

Tuesday Sept. 30: Maryland's Potomac-Garrett State Forest; West Virginia's Blackwater Falls State Park, overnight at lodge Davis WV.

Wednesday Oct. 1: Olson Fire Tower and Fernow Experimental Forest, Monongahela National Forest; Cooper's Rock State Forest; overnight in Morgantown WV.

Thursday Oct. 2: West Virginia University's Experimental Forest; Pennsylvania State University's research; overnight in State College PA.

Friday Oct. 3: Pennsylvania State University's research; Pennsylvania's Moshannon State Forest; steak fry cookout, overnight in Du Bois PA.

Saturday Oct. 4: Pennsylvania's Clear Creek State Forest; travel to Pittsburgh and overnight near airport.

Sunday Oct. 5: fly to Salt Lake City for Congress



(Oak in Germany)



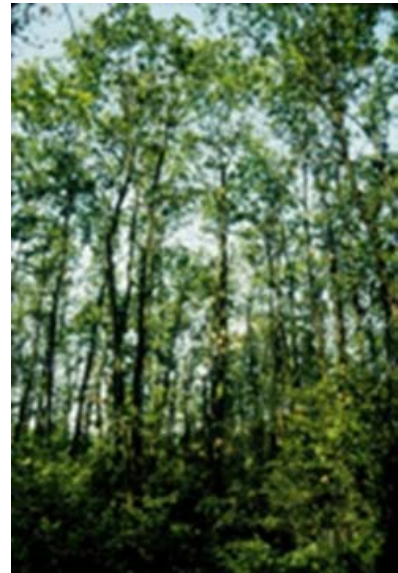
Coordinator:

Kurt W. Gottschalk
USDA Forest Service
Northern Research Station
kgottschalk@fs.fed.us

Deputy Coordinators:

Brian Lockhart
USDA Forest Service
Southern Research Station
blockhart@fs.fed.us

Eduard Hochbichler
Universität für Bodenkultur
Wien
eduard.hochbichler@boku.ac.at



(Oak forest in Romania)