



# TRACE 2016

Tree Rings in Archaeology, Climatology and Ecology  
11-15 May 2016, Białowieża, Poland

## CONFERENCE PROGRAMME

### Tuesday, 10 May 2016

	08:00-18:30	pre-conference field trip
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### Wednesday, 11 May 2016

	08:00-09:00	registration for short courses
	09:00-16:00	short courses (including lunch 12:15-14:00)
	16:00-19:00	registration
	19:00-23:00	ice-breaker reception ( <b>outdoor reception, please mind that it may be chilly in the evening</b> )

### Thursday, 12 May 2016

	07:00-08:30	registration	
	08:30-08:45	conference opening	
KEYNOTE	08:45-09:15	Dieter Eckstein	Dendrochronology - looking back on amazing 50 years of its recent past
archaeology	09:15-09:30	Thomas Frank	Dendrochronology of Early Neolithic water wells in the Rhineland, Germany
	09:30-09:45	Valentino Marini Govigli	Evidence from tree rings and forest history of sacred groves in Northern Greece
	09:45-10:00	Mayya Sidorova	Architecture and tree-ring dating of historical monuments in the open air museum "Starina Sibirskaya" in Western Siberia
	10:00-10:15	Julia Weidemüller	Transport of timber in the Dark Ages
	10:15-10:45	coffee break	
KEYNOTE	10:45-11:15	Kurt Nicolussi	Tree rings, glacier variability and climate in the Alps – the long-term view
dendroclimatology I	11:15-11:30	Daniel Balanzategui	A winter-early spring temperature reconstruction from AD 1169 for the northern Poland lowlands developed from tree-ring widths of living and historical <i>Pinus sylvestris</i> trees
	11:30-11:45	Allan Buras	Shrubs shed light on 20th century Greenland Ice Sheet melting

<b>dendroclimatology I</b>	11:45-12:00	Claudia Hartl-Meier	Millennial-scale temperature coherence in proxy reconstructions and climate models
	12:00-12:15	Veronica Kuznetsova	Climatic signals in early and latewood of coniferous in the Volga region - possibilities and restrictions of climatic reconstructions
	12:15-14:00	lunch	
<b>KEYNOTE</b>	14:00-14:30	Ewa Zin	Białowieża Forest - disturbance history and forest dynamics in past and ongoing scientific research
<b>dendroecology I</b>	14:30-14:45	Daniele Castagneri	Xylem anatomy indicates different strategies of two deciduous oak species to face drought in the South-Eastern Mediterranean Basin
	14:45-15:00	Monika Franek	Dendrochronological record of terrain subsidence caused by underground mining (Silesian Upland)
	15:00-15:15	Edurne Martinez del Castillo	Does European beech and Scots pine adapt equally to Mediterranean conditions? A xylogensis approach
	15:15-15:30	Norbert Szymański	Adaptation of European larch ( <i>Larix decidua</i> Mill.) of selected Polish provenances under climatic conditions of the Kielecka Upland (central Poland)
	15:30-15:45	Bogdan Wertz	Differences of the incremental response of main coniferous species in southern Poland in the pollution period
	15:45-16:00	Valentina Vitali	The influence of drought-stress on radial growth in Norway spruce, Silver fir, and Douglas fir in the Black Forest
	16:00-16:30	coffee break	
<b>wood anatomy and methods I</b>	16:30-16:45	Philipp Hochreuther	Is linear correlation analysis a feasible tool for analysing climate-proxy relationships? The application of wavelet coherence analysis for interpreting macroclimatic imprints on tree-ring $\delta^{18}O$ in monsoonal southeast Tibet
	16:45-17:00	Karolina Janecka	Does compression wood affect the climatic signal in carbon and oxygen isotopes of Norway spruce?
	17:00-17:15	Oliver Konter	Age-related changes of the climate sensitivity of boreal tree-rings
	17:15-17:30	Jiří Lehejček	A new tool for paleoclimate reconstructions in the Arctic – Wood-anatomy of <i>Juniperus communis</i>
	17:30-17:45	Margarita Popkova	Time identification of cell production in the growth season
	17:45-18:00	Georg von Arx	Quantifying xylem anatomy in angiosperms and conifers – live demonstration of ROXAS!
<b>poster session</b>	18:00-19:30		
	19:30-20:30	ATR meeting	

### Friday, 13 May 2016

	06:00-12:00	mid-conference field trip (early option)
	08:00-12:00	mid-conference field trip (late option)
	12:15-14:00	lunch

climate-growth relationships	14:00-14:15	Wolfgang Beck	Temporally changing climate/growth relationships found on long-term forest sample plots
	14:15-14:30	Katrin Böhm	Intra-seasonal growth variability of <i>Juniperus semiglobosa</i> from the Tien Shan, Kyrgyzstan
	14:30-14:45	Eyob Gebrehiwot Gebregeorgis	Precipitation as the main driver responsible for the radial growth of <i>Cupressus lusitanica</i> (Mill) at Wondo Genet, Ethiopia
	14:45-15:00	Shankar Panthi	Recent climate warming has induced a declining growth of Himalayan spruce in the central Himalaya, Nepal
	15:00-15:15	Ryszard Kaczka	The effect of wood preparation on results of Blue Intensity measurements
	15:15-15:30	Václav Tremł	Growth-climate relationships of trees at different treeline forms
dendroclimatology II	15:30-15:45	Matthew Meko	Multi-parameter dendrochronology in sub-saharan Africa
	15:45-16:00	Andrei Mursa	A 400-year long summer temperature reconstruction based on maximum density in <i>Pinus cembra</i> L. tree rings, in the Eastern Carpathian Mts., Romania
	16:00-16:30	coffee break	
dendroclimatology II	16:30-16:45	Magdalena Opała	Millennia-long dendroclimatic records for the Pamir-Alay region - perspectives and limitations
	16:45-17:00	Tobias Scharnweber	A snapshot from 1000 years ago - Beech growth during medieval times compared to today with a focus on summer drought
	17:00-17:15	Ernesto Tejedor Vargas	410-years of temperature reconstruction for the Iberian Peninsula based on tree-ring records
	17:15-17:30	Achyut Tiwari	500-year tree ring-width based spring precipitation (March-May) variability in trans-Himalayan zone of central Nepal
	17:30-17:45	Jan Tumajer	Different response of floodplain <i>Quercus robur</i> L. tree-ring width and vessel lumen area to changing hydroclimatic conditions
	17:45-18:00	Chuixiang Yi	Dendrochronology indicates a dryness tipping point for increased regional tree mortality
poster session	18:00-19:30		
	20:00-24:00	conference dinner	

### Saturday, 14 May 2016

dendro-ecology II	08:30-08:45	Francesco Giammarchi	Disentangling climate and ontogenetic effects on the growth potential and intrinsic water-use efficiency of two Alpine Norway spruce chronosequences
	08:45-09:00	Paweł Matulewski	Radial growth changes in Scots pine ( <i>Pinus sylvestris</i> L.) root systems subjected to trampling erosion within on a hiking trail in Brodnica Lakeland, NE Poland
	09:00-09:15	Elena Pellizzari	A juniper tree-ring network across the Alpine range
	09:15-09:30	Alma Piermattei	Disentangling the effect of climatic and genetic factors contributing to <i>Abies alba</i> tree-ring growth variation along the Italian peninsula
	09:30-09:45	Seyedehmasoumeh Saderi	Measuring the adaptive potential of larch to climatic changes using wood formation monitoring along an altitudinal gradient in the French Alps
	09:45-10:00	Alina Samusevich	Earlywood and latewood sensitivity to air pollution on the example of Norway spruce in the Ore Mountains
	10:00-10:15	Maria Tabakova	Tree growth response along an altitudinal transect in the North of Central Siberia
	10:15-10:45	coffee break	
Isotopes in	10:45-11:00	Achim Bräuning	Stable isotope series in tropical trees - how much is enough to represent a robust signal?

<b>dendrochronology</b>	11:00-11:15	Zeynab Foroozan	Climatic signals in stable carbon isotope ratios of Juniper and Oak tree rings in northern Iran
	11:15-11:30	Stefan Klesse	Oxygen isotopes in tree rings are less sensitive to tree size and stand dynamics than carbon isotopes
	11:30-11:45	Viorica Nagavciuc	Correlation between daily climatic data and oxygen isotope composition in the cellulose of <i>Pinus cembra</i> L. tree rings (Călimani Mts., Romania)
	11:45-12:00	Annika Oertel	Environmental signals in tree ring $\delta^{18}O$ from a temperate catchment in Switzerland
	12:00-12:15	Malin Michelle Ziehmer	Alpine Holocene tree ring isotope records - The chance and challenge of establishing multi-proxy records from tree rings for the past 9000 years
	12:15-14:00	lunch	
<b>wood anatomy and methods II</b>	14:00-14:15	Peter Prislan	Intra-specific plasticity of seasonal dynamics of xylem formation and wood structure in beech at two sites in Slovenia
	14:15-14:30	Jesper Björklund	Seasonally interchangeable property relationships in Boreal conifers - key to decipher wood density for dendroclimatology
	14:30-14:45	Jianmin Jiang	Change-points of multiscale subperiod trends in tree-ring series over 8000 years in the Southwest of USA
	14:45-15:00	Irina Sviderskaya	Functional characteristics of conifer tracheids and annual rings: model estimates by lumen diameter and wall thickness
	15:00-15:15	Ewa Zin	Cross dating using pointer years and fire scars - examples from temperate and boreal <i>Pinus sylvestris</i> tree-ring-fire history studies
<b>dendroecology IV</b>	15:15-15:30	Małgorzata Danek	The influence of masting on tree-ring growth of European larch in eastern part of the Polish Carpathian Mountains
	15:30-15:45	Henryk Dąbrowski	The origin of driftwood found on the western coast of Spitsbergen - dendrochronological study
	15:45-16:15	conference closing	