

EuroDendro 2008



The long history of wood utilization May 28th to June 1st 2008, Hallstatt, Austria

Program

Wednesday, May 28th 2008

18:30 Welcome by the Saline-Blasmusik

19:00 Opening ceremony

Reception by:

University of Natural Resources and Applied Life Sciences - BOKU Vienna

President Ingela Bruner

Ministry of Agriculture, Forestry, Environment and Water management

Head of Department Johannes Schima

Natural History Museum Vienna

Director of the prehistoric Department Anton Kern

Saline Austria AG - Tourism

Head of Department Kurt Thomanek

Dinner at the Congress House

Introduction to the prehistoric salt-mining site Hallstatt

Anton Kern (Natural History Museum Vienna)

Hans Reschreiter (Natural History Museum Vienna)

Welcome drinks

Thursday May 29th

08:00 Arrival and beginning

Session 1: Forest- and wood utilization

Chairlady: Katharina Cufar

	Nr.	pg.
08:20 08:40 Maisie Taylor My life and trees		39
08:40 09:00 Elisabeth Johann Forest Utilization and Management in the Austrian Alpine Foothills (Österreichisches Alpenvorland) during the Era of the Roman Empire		27
09:00 09:20 Willy Tegel Dendroarchaeology of the First Millennium AD: Exploring the Transition from Antiquity to the Middle Ages in Western and Central Europe (4 th and 5 th c. AD)		39
09:20 09:40 Tomasz Wazny Dendroprovenancing in the Eastern Mediterranean		41
09:40 10:00 Thorsten Westphal Albania – a dendrochronological white spot in the Mediterranean Part 1: Project overview and dendroarcheology		41
10:00 10:30 Coffeebreak		
10:30 10:50 Thomas Eißing Wood provenance and logging in Southern Germany		19
10:50 11:10 Esther Jansma Digital Collaboratory on Cultural-Historical Dendrochronology in the Low Countries (DCCD)		26
11:10 11:30 Elzbieta Szychowska-Krapiec Dendrochronological dating of wood from roof structures of historic churches in central Poland		38
11:30 12:00 Introduction to posters: Chairlady: Sigrid Wrobel		
12:00 12:30 Poster session 1		
Karl-Uwe Heussner Absolute Chronology of Late Bronze Age and Early Iron Age from Poggoimarino/Italy	1-1	24
Tomas Kyncl Dendrochronological dating of prehistoric well constructions in the Czech Republic	1-2	29
Esther Jansma Age, wood provenance and construction characteristics of three Roman barges from the Netherlands: a dendrochronological study	1-3	25
Ronald Visser Roman timber and tree rings	1-4	40
Katarina Cufar Dendrochronological potential of wooden rural buildings in Slovenia	1-5	18

Thursday May 29th

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András Grynaeus Recent Results of Dendrochronology in Hungary	1-6	22
Kristof Haneca Historical timber import in Flanders (northern Belgium): the current dendrochronological approach	1-7	24
Maris Zunde A dendrochronological question: was the imported <i>Baltic timber</i> always timber from the Baltic?	1-8	44
Maxim Yermokhin Determining origin of Norway spruce (<i>Picea abies</i> (L.) Karst.) wood	1-9	44
Lydia Querrec Wood posts from old palisades surrounding Québec City, a UNESCO heritage site	1-10	36
Hiroyuki Fujii Species and tree ring analysis of wooden historic building in Taima-dera Buddhist Temple, Nara, Japan	1-11	20
Jun Obayashi Yamamoto Dendroarchaeological Study of Excavated Wooden Well in <i>Saidaiji</i> Temple	1-12	34
Rutile Pukiene The 17 th century winding stairs in the Vilnius Cathedral as a source of information on architectural and natural history	1-13	36
Thomas Pichler Evidence for pre-historic mining activities by means of dendrochronological analysis of wooden artefacts from the copper mine Kelchalm/Kitzbühel	1-14	35
Kurt Nicolussi Historic mining on gold at a high mountain site in the Alps – first results of dendrochronological analyses on mining timber from the Kloben area (Hohe Tauern)	1-15	33
Nigel Nayling Dendro-historical analysis of the Newport medieval Ship: construction, life history and demise	1-16	33
Takayuki Okochi Nondestructive dendrochronological study for wooden statues housed in Ritto History Museum, Japan	1-17	34
Eberhard Lehmann Neutron transmission imaging with imaging plates detectors as competitive method for tree ring determination	1-18	30
Eberhard Lehmann Imaging with cold neutrons for the determination of tree rings in deteriorated wood	1-19	30
Michael Bamforth The use of large diameter coppice rods in Iron Age woodworking	1-20	15
Wolfgang Lobisser Wood finds of the Iron Age from the Ramsautal on the Dürrenberg near Hallein	1-21	31

Thursday May 29th

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Jarno Bontadi Vertical transhumance in Trentino. An historical reconstruction through dendrochronology.	1-22	15
Tomáš Kolár Dendrochronological dating of subfossil oak trunks from river-basin Morava and determination their physical and mechanical properties	1-23	28
Vladimir Gryc Anatomic identification of wood samples from the archaeological research of Opava	1-24	21
Christoph Buksnowitz Tree ring structure and variation as a quality-affecting parameter in Norway Spruce resonance wood.	1-25	17
Stefano Spina Deterioration in historical wood by xylophagous insects: investigation on wood anatomical aspects and wood physical implications.	1-26	37
12:30 13:40 Lunch at the Congress House		
13:40 14:00 Pascale Fraiture Wood painting supports in the southern part of the ancient Low Countries from 1450 to 1650: dendrochronological and archaeological analyses		19
14:00 14:20 Mireia Celma Martinez Shepherds woodcarving in Central Pyrenees		17
14:20 14:40 Niels Bleicher Four levels of pattern-identification in tree rings for palaeodendroecological interpretation.		16
Session 1: Dendroclimatology		
Chairman: Dieter Eckstein		
14:40 15:00 Keith Briffa Is there a "real" loss of temperature sensitivity in recent high-latitude tree growth?		48
15:00 15:20 Kurt Nicolussi A 9111-year long conifer chronology for the Alps: establishment and results		61
15:20 15:50 Coffeebreak		
15:50 16:10 Andreas Kirchhefer Dendroclimatology in Dividalen, intra-alpine North-Norway: chronology development, tree-line dynamics and climate-responses		56
16:10 16:30 Ionel Popa Millennial long summer temperature reconstruction inferred from tree-ring record for Calimani Mts. (Eastern Carpathians, Romania)		61

Thursday May 29th

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16:30	16:50	Oleg Shumilov Paleoclimatic variations on the tree-ring data at Kola Peninsula (Northwestern Russia) for 1455 - 2005		64
16:50	17:10	Martin de Luis Dendrochronology in Mediterranean areas: new insights for climate change studies		49
17:10	17:30	Jussi Grießinger Stable isotopes in subalpine trees from the Tibetan plateau		53
17:30	17:50	Neil Loader Multi-Parameter dendroclimatology at the Northern tree-line		58
17:50	18:10	Valerie Trouet A multi-proxy reconstruction of interdecadal Winter North Atlantic Oscillation variability since A.D. 1050		65
18:10	18:40	Introduction to posters: Chairman: Neil Loader		
		Giovanna Battipaglia Detection of extremes in millennial length tree-ring chronologies.	2-1	48
		Marina Gurskaya Extreme climatic events recorded in coniferous tree rings at the Poluj river floodplain (Northwestern Siberia).	2-2	55
		Roberta Riondato Which is the most climate-sensitive part along a stem?	2-3	62
		Ignacio Garcia-Gonzalez Tree-rings of young <i>Juniperus thurifera</i> trees are more sensitive to summer water stress than older ones	2-4	53
		Yasir-Ullah Bhoru Climatic response of <i>Pinus roxburghii</i> tree-rings and resin canals from Reserve forest of FRI Dehra Dun (India)	2-5	48
		Anna Cedro Climatic response of spruce trees growing behind natural rangeland in southern coast of Baltic Sea	2-6	49
		Didzis Elferts Influence of climatic factors on the radial growth of Scots pine in the Western part of Latvia	2-7	50
		Iryna Koval Influence of climate on radial growth of <i>Pinus Sylvestris L.</i> in forest and forest-steppe zones of Ukraine	2-8	57
		Iluta Luce Growth response of Scots pine (<i>Pinus sylvestris L.</i>) to ground-water level and climatic factors in a bog	2-9	60
		Michal Rybnicek The Determination of the Climatic Factors Effect on Radial Increment of Spruce Stands in the Orlicke hory at Altitudes over 800 m	2-10	63
		Adomas Vitas Dendroclimatological investigation on Douglas fir (<i>Pseudotsuga menziesii</i>) in Lithuania	2-11	66

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Martin Weigl Climate-growth relationships of intra-annual parameters for oak from Austria	2-12	67
Britt Grundmann Variation in climate-growth relationship of Common beech (<i>Fagus sylvatica</i> L.) and Norway spruce (<i>Picea abies</i> [L.] Karst.) in Natural forests in Southern Sweden since 1860	2-13	54
Christian Zang Effects of increased drought on choice of commercial forest trees in Bavaria	2-14	67
Markus Lindholm Reconstruction of summer temperature from annual height increment of Scots pine at the northern timberline	2-15	58
Thomas Melvin Process-based standardization in dendroclimatology	2-16	60
Kerstin Treydte Albania – a dendrochronological white spot in the Mediterranean Part 2: Potential for long-term climate reconstruction	2-17	64
Adomas Vitas Reconstruction of Stirmiai lake (northeastern Lithuania) level for the Medieval Warm Period: dendrohydrological study	2-18	66
Elena Kasatkina Possible reflection of extraterrestrial body impacts in tree-ring chronologies	2-19	55

19:30

Dinner at Bräugasthof (A)

Friday, May 30th 2008

Whole day excursion

You can reach the Salzberg by cable car (with the name tags as your ticket), or you can walk there (approximately 45 minutes).

Please choose the following offers and sign at the lists.

- Guided tour to the wooden staircase (by Hans Reschreiter and Kerstin Kowarik)
You need good shoes and warm clothes. If you are afraid of small rooms – don't attend!
Starting time at the meeting point (at the Salzberg): duration approximately one hour,
max. 24 people per group
09:30, 10:30, 11:30, 13:00, 14:00, 15:00, 16:00

- Guided tour through the village of Hallstatt
Starting time at the Congress house: duration approximately 1.5 hours,
max. 50 people per group
11:00, 14:00

- Guided hiking tour (you need hiking boots)
Starting time at the meeting point (Salzberg): duration approximately 2 hours,
max. 15 people per group
10:30, 13:30

- Guided tour to the Iron-Age Graveyard (by Anton Kern)
Starting time at the meeting point (at the Salzberg): duration approximately one hour,
max. 50 people per group
10:00, 15:00

- Experimental archaeology, wood working tools (by Wolfgang Lobisser)
Starting time at the wooden hut, above the Lunch area
11:30, 16:00

- Presentation of wooden findings from the salt mine Hallstatt (by Michael Grabner)
all the time at the Lunch area

Lunch:

Between 12:00 and 14:00 at the Lunch area (Salzberg)

Dinner:

19:00 at the Bräugasthof (A)

20:30 Boat trip at the Lake (in two or three groups)

08:00 Arrival and beginning

Saturday May 31st

Session 3: Forest growth, dynamics and protection against mass movements

Chairman: Risto Jalkanen

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08:20 08:40 Paolo Cherubini Dendroecology, or the use of tree rings in ecology: experiences from the past, challenges for the future.		71
08:40 09:00 Hanns Hubert Leuschner Local or large scale spatial signal? A research strategy for the dendroecological evaluation of bog pine horizons		78
09:00 09:20 Ute Sass-Klaassen Unravelling past river dynamics by studying early wood vessel size in recent and subfossil oaks		81
09:20 09:50 Introduction to posters: Chairman: Holger Gärtner		
Maris Hordo Trends of Scots pine (<i>P. Sylvestris</i>) radial growth in Estonian Forests	3-1	73
Zoltan Kern Steps toward a long regional stone pine tree-ring chronology for Eastern Carpathians, Romania	3-2	74
Nicole Suty Tree-ring data from the Swedish National Forest Inventory	3-3	83
Sandra Ikauniece Tree species composition change in <i>Quercus robur</i> stands in eastern Latvia	3-4	73
Alar Läänelaid Age and present state of oaks in an oak forest in Saaremaa Island, Estonia	3-5	75
Georges Lambert Methods for a three dimensional interpreting model of growth of 4000 oak trees collected in northern France and southern Belgium	3-6	77
Krzysztof Ufnalski The oldest groups of oak trees in Poland	3-7	83
Byambagerel Suran Forest insect outbreak reconstruction in Bogd Khan mountains (Ulaanbaatar, Mongolia) using tree rings	3-8	82
Svetlana Stetsenko Morphological changes of a pine in forest cultures under influence of pesticides	3-9	81
Georg Kindermann Influence of tree and site conditions on tree ring width variation	3-10	75
Hannu Salminen Time-series analysis of height increment and radial growth of Scots pine in northern Finland	3-11	80

Saturday May 31st

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Walter Oberhuber Synergistic effect of drought and chestnut blight (<i>Cryphonectria parasitica</i>) on radial growth of European chestnut (<i>Castanea sativa</i>)	3-12	79
Jonathan Lageard Tree-ring dating of Fruit Trees at Croxteth Hall, Liverpool, UK	3-13	77
Anna Cedro Wild pear (<i>Pyrus pyraeaster</i> L.) – a xerothermic element in reserve “Bielinek”	3-14	70
Paul Copini Dendrogeomorphology as a tool to reconstruct drift sand dynamics using European oak (<i>Quercus robur</i> L. and <i>Quercus petraea</i> (Matt.) Liebl.)	3-15	72
Ünal Akkemik Effects of Snow Avalanche occurred in the winter of 1992-1993 on tree rings of Bornmueller’s Fir in Kastamonu, Turkey	3-16	70
09:50 10:30 Poster session 2 and 3		
10:30 11:00 Coffeebreak		
11:00 11:20 Markus Neumann Relations of growing district and tree ring width pattern		78
11:20 11:40 Margaret Devall Metal deposition in <i>Taxodium distichum</i> tree rings in a Louisiana wetland: nickel, copper, chromium, manganese and iron		72
Session 4: Wood formation and wood anatomy		
Chairlady: Ute Sass-Klaassen		
11:40 12:10 Introduction to posters: Chairlady: Margaret Devall		
12:10 12:40 Poster session 4		
David Drew Cambium: A process approach to simulating daily xylem development in Eucalypts	4-1	91
David Drew The use of precision dendrometers in research on daily stem size and wood property variation	4-2	92
Risto Jalkanen Variation of tracheid number in radial files of xylem growth ring in pinned and micro-cored Scots pine	4-3	94
Peter Prislán Wood formation in beech (<i>Fagus sylvatica</i> L.) in the 2006 growth season	4-4	102
Javier Vázquez-Piqué Modelling the influence of climate and soil on cork oak (<i>Quercus suber</i> L.) daily growth: a neural network approach	4-5	108

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Maria Reyes Alejano The influence of environmental and silvicultural factors on diametric growth (stem) of holm oak (<i>Quercus ilex</i> ssp. <i>ballota</i>) in the South West of Spain	4-6	86
Filipe Campelo Climatic signal of vessels in <i>Quercus ilex</i> from northeast Spain	4-7	88
Harri Mäkinen Increment cores from the Finnish National Forest Inventory as a source of information for studying wood formation during a growing season	4-8	100
Iryna Koval The microstructure of wood's year bands as an indicator in meteorology history studies	4-9	97
Manuel Souto-Herrero Is always ring width an appropriate variable for the dendroecological analysis of oak?	4-10	106
Camille Couralet Growth rings and growth ring formation in 5 species of the Luki forest reserve, Mayombe, Democratic Republic of Congo	4-11	88
Maaïke De Ridder Growth-ring analysis in limba plantations (<i>Terminalia superba</i> Engl. et Diels) at the border of the Mayombe Forest, Democratic Republic of Congo	4-12	89
Charles Nock Seasonal and long term variation in wood density for tropical tree species in Western Thailand	4-13	100
Elisabeth Robert Hydraulic architecture of <i>Avicennia marina</i> (Forssk.) Vierh. along an ecological gradient in Gazi Bay, Kenya	4-14	103
Nele Schmitz Intervessel pit anatomy in two mangrove species and its ecological significance	4-15	104
Olga Tolkach Role of the starch in formation of the annual radial growth size of a birch (<i>Betula pendula</i> Roth).	4-16	107
Ilona Peszlen Effect of lignin on wood formation in transgenic aspen trees	4-17	101
Leena Vihermaa Variation in timber properties of Sitka spruce due to site factors and climate	4-18	109
Stefano Spina Ring shake and physic-mechanic properties in Chestnut from Latium	4-19	107
Majid Lotfalian Reactions between Annual Rings and Timber Logging	4-20	98
Marzena Klusek Anatomical analysis of Miocene wood from the Carpathian Foredeep (SE Poland)	4-21	96

Saturday May 31st

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Neil Loader

A device for removing stuck/broken increment borers

12:40 13:50 Lunch

13:50 14:10 Geoff Downes

Applications of high-resolution dendrometers and wood property measurement to model wood formation

90

14:10 14:30 Jeong-Wook Seo

Climatic control of the intra-annual cambium dynamics of Scots pine near its northern distribution line.

106

14:30 14:50 Jozica Gricar

Cambial activity and wood formation in experimentally controlled heated and cooled stem portions of sessile oak during the growing season of 2007

94

14:50 15:10 Tuula Jyske

The effect of severe drought on xylem wood formation in Norway spruce

95

15:10 15:30 Walter Oberhuber

Temperature dependence of *Pinus cembra* stem growth and wood formation along an altitudinal transect

101

15:30 16:00 Coffeebreak

16:00 16:20 Patrick Fonti

Precision vs. efficiency: how much information do we lose in an automated measurement of earlywood vessels?

92

16:20 16:40 Ignacio García González

Comparing several growth variables obtained from the earlywood vessels of oak: climatic responses and ecophysiological meaning

93

16:40 17:00 Ilse Boeren

Growth ring analysis in *Millettia laurentii* from the Republic of Congo

86

17:00 17:20 Achim Bräuning

Detection and ecological interpretation of seasonal growth patterns and stable isotope variations in south Ecuadorian trees.

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17:20 Closing

19:30 Dinner at the Conference House

Sunday, June 1st 2008

07:30 Departure of the buses

**Thank you for taking part at the EuroDendro 2008
“The long history of wood utilization”
at Hallstatt, Austria.
May 28th to June 1st 2008**



See you at the next EuroDendro meeting!

Daniela Geihofer
Sonja Schaupmann
Sandra Karanitsch
Michael Grabner