Siberian Federal University, Krasnoyarsk, Russia V.N.Sukachev Institute of Forest SB RAS, Krasnoyarsk, Russia Swiss Federal Research Institute WSL, Birmensdorf, Switzerland

Program

Russian-Swiss Workshop

"Current Status and the Potential of Tree-Ring Research in Russia"

Krasnoyarsk, Russia January 20-21, 2014

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Tuesday, 20 January

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09.00 – 09.10	Opening Session Eugene A. Vaganov, Rector of Siberian Federal University, Russia
	Lectures Moderator: Irina V. Sviderskaya
09.10 – 10.30	Ulf Büntgen Swiss Federal Institute for Forest, Snow and Landscape Research WSL Frontiers of tree-ring research
10.30 - 11.00	Coffee-break
11.00 – 11.45	Fritz Schweingruber Swiss Federal Institute for Forest, Snow and Landscape Research WSL Aging, none escapes
11.45 – 12.30	Eugene A. Vaganov Siberian Federal University, Krasnoyarsk Searching for the bridge between dendrochronology, physiology and gene expression: a problem of long-distance signalling
12.30 – 13.30	Lunch
	Presentations Moderator: Vladimir V. Shishov
13.30 – 13.45	K.V. Krutovsky, N.V. Oreshkova, E.A. Babushkina, Liliana V. Belokopytova, T.V. Kostyakova, A.M. Grachev, E.A. Vaganov, Khakasia Technical Institute-Branch of the Siberian Federal University, Abakan Preliminary results on using methods of dendrochronology and genome wide genotyping for studying the genetic mechanisms of homeostasis, heterosis and genetic resistance towards the environmental factors in Siberian larch
13.45 – 14.00	Dmitry Ovchinnikov , L. Lixin, Zh. Qi-Bin, A. Kirdyanov V.N. Sukachev Institute of Forest SB RAS, Krasnoyarsk A long-term tree-ring variability along the northern Siberia-Tibetan plateau transect based on the Hilbert-Huang transform method

14.00 – 14.15	Alexey I. Fertikov, A.V. Kirdyanov, A.S. Shishikin, E.A. Vaganov Siberian Federal University, Krasnoyarsk Dynamics of heavy metal (Ni, Co, Mn, Cu, Fe) and sulfur (S) content in tree-ring of larch affected by industrial pollution from the Norilsk smelters
14.15 – 14.35	V. Matskovsky, Olga Solomina Institute of Geography RAS, Moscow 831-years long conifer tree-ring chronology in Solovki Islands and its climatic interpretation
14.35 – 14.55	Viktor Voronin, V. Oskolkov, V. Bujantuev, S.Shvetsov, R.Moritz Siberian Institute of Plant Physiology and Biochemistry SB RAS, Irkutsk Construction of a millennia-long chronology for the north Baikal region, Russian from the Holocene deposits of Muya-river valley
14.55 – 15.30	Coffee-break
15.30 – 15.50	Ekaterina Dolgova Institute of Geography RAS, Moscow June-September temperature reconstruction in the Northern Caucasus based on blue intensity data
15.50 – 16.10	Rashit M. Hantemirov, L.A. Gorlanova, Y.A. Ekba, R.S. Dbar, A.Y. Surkov, V.V. Kukarskih Institute of Plant and Animal Ecology UrB RAS, Ekaterinburg Assessing the climatic sensitivity of Pinus brutia on the eastern coast of the Black Sea
16.10 – 16.25	Anna V. Taynik, V.S. Myglan Siberian Federal University, Krasnoyarsk Tree-ring growth of Siberian larch at the upper treeline in the Altay- Sayan region over the last 250 years
16.25 – 16.40	Valentin V. Barinov, V.S. Myglan Siberian Federal University, Krasnoyarsk Extreme climatic events in Altay-Sayan region over the last 250 years inferred from dendrochronological data
16.40 – 17.00	Anatoly Nikolaev East-North Federal University, Yakutsk The effect of cryogenic processes on radial growth of larch in Central Yakutia, Russia
17.00 – 17.20	Leonid I. Agafonov Institute of Plant and Animal Ecology UrB RAS, Ekaterinburg Deciduous tree species as indicators of river hydrology

Wednesday, 21 January

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Presentations

Moderator: Alexander V. Kirdyanov

- 9.30 9.45 L.V. Belokopytova, **T.V. Kostyakova**, E.A. Babushkina, A.M. Grachev Khakasia Technical Institute-Branch of the Siberian Federal University, Abakan Dendroclimatological analysis of the radial growth of Scots pine and Siberian larch on the territory of the museum-natural reserve "Kazanovka" (Khakasia)
- 09.45 10.05 O. Solomina, V. Matskovsky

Institute of Geography RAS, Moscow

Drought frequency in the last 300 years in the Moscow region (Russia) from pine and oak ring width chronologies

- 10.05 10.20 Vladimir V. Kukarskih, L.I. Agafonov

 Institute of Plant and Animal Ecology UrB RAS, Ekaterinburg

 Dendrochronological studies in the southern Trans-Urals and
 Kazakhstan
- 10.20 10.40 Irina V. Sviderskaya, M.V. Bryukhanova, A.V. Kirdyanov
 Siberian Federal University, Krasnoyarsk
 New Instrument for Dendrochronology Model Estimation of
 Hydraulic Characteristics of Pinaceae Tree Rings by Their Cellular
 Structure
- 10.40 11.10 **Coffee-break**
- 11.10 11.30 **Vladimir V. Shishov**, I.I. Tychkov, M.I. Popkova, V.A. Ilin

 Siberian Federal University, Krasnoyarsk

 Tree-ring growth simulation in Eurasia: from a single tree to landscape
- 11.30-11.45 Ivan I. Tychkov, M.I. Popkova, V.V. Shishov

Siberian Federal University, Krasnoyarsk

VS-oscilloscope - software developing of the tree-ring growth processbased model

- 11.45 12.00 Margarita I. Popkova, I.I. Tychkov, V.V. Shishov, E.A. Vaganov Siberian Federal University, Krasnoyarsk

 Cell growth simulation of tree rings: new approach
- 12.00 13.00 **Lunch**
- 13.00 15.00 **General discussion** (outcome of the Workshop, joint publications, Special Issue of tree-ring related journal, possible joint projects, etc.) **Moderator: Ulf Büntgen**