



III INTERNATIONAL CONFERENCE

FORESTS OF RUSSIA: POLICY, INDUSTRY, SCIENCE AND EDUCATION

May 23–24, 2017
St. Petersburg, Russia

**The main topic of the conference:
PROBLEMS AND PERSPECTIVES OF FOREST-BASED
CIRCULAR BIOECONOMY IN RUSSIAN FEDERATION**

CONFERENCE PROGRAM

*The conference is coincided with the 215-year anniversary
of the St. Petersburg State Forest Technical University*



Conference website: <http://spbftu.ru/lesarf2018/>

23 of May, Wednesday

- 9.00 – 10.00 Registration of participants (I-209)
- 10.00 – 12.00 Plenary meeting (I-231)
 Iurii BELENKII, Rector of SPb SFTU – *Welcoming words*
 Marc PALAHI, Director of European Forest Institute – *The key transformational role of forests as basis for a sustainable bioeconomy*
 Natalia LUKINA, corresponding member of RAS, Director of Center of Forest Ecology and Productivity – *Concept and preconditions for forest bio-economy development in Russia*
 Arne BARDALEN, Special Adviser of Norwegian Institute of Bioeconomy Research – *The Forest Sectors role in a sustainable Bioeconomy*
 Anatoly PETROV, Rector of Russian Institute of Continuous Education in Forestry – *Forestry economics: past, present, future*
- 12.00 – 12.15 Group photo
- 12.15 – 13.30 Lunch
- 13.30 – 16.00 Plenary meeting continuation
 Nikolay PETRUNIN, Vice-director of Saint Petersburg Forestry Research Institute – *Forest Sector of Russia: current state and development trends*
 Vladimir ARKHIPOV, Development Director of *LESPROEKT* – *Forest resources assessment in RF: Problems and solution*
 Eduard AKIM, Member of the FAO UN Advisory Committee on Paper and Wood Products; Head of Department of Saint Petersburg State Technological University of Plant Polymers – *Biorefinery of wood*
 Sergey KARATAEV, Chief Specialist for prefabricated wooden house-building, “Faeton” company – *Current issues of prefabricated wooden houses production*
- 16.15 – 17.30 Excursions to the University museums and botanical garden

24 of May, Thursday

- 9.30 – 12.00 Roundtable discussions
- 12.00 – 13.00 Lunch
- 13.00 – 16.00 Roundtable discussion continuation
- 16.00 – 17.00 Conclusions and closing the conference

26 of May, Saturday

An excursion to Lisino Forest Experimental Station

ROUNDTABLE DISCUSSIONS

1. FOREST RECOURSES: USE, INVENTORY, EVALUATION AND REPRODUCTION

Moderators: Eugeny Kuznetsov, Vladimir Arkhipov

I-209

- *Grek V.S., Volkova Y.A.* Regularities of the structure of the trees inventory indicators and their dynamics
- *Kudryavtsev A.Y.* Opportunities for increasing of productivity of forest-steppe forests (on example of Penza region)
- *Gribachyova O.V., Kravets A.L.* The composition and condition of natural regeneration of deciduous species in the hollow of the Antratsitovskiy region of the Lugansk People's Republic
- *Galdina T.E.* Geographical plantations in the Central forest-steppe as an object of stationary research
- *Bobushkina S.V., Tarakanov A.M.* Conditions for successful reforestation on the over-wet clear cut felling areas of the Arkhangelsk region
- *Danilov D.A., Yanush S.Y., Mandrikin S.S.* Successional processes on postagrogenic soils of the Leningrad region
- *Korotkov S.A.* Forming of spruce forests of the Moscow region under the influence of environmental and economic factors
- *Sinkevich S.M.* Natural regeneration in the middle taiga pine forest after intermingled-gradual felling
- *Mehrentsev A.V.* The prospects for the development of forest bio-economy in the Republic of Bashkortostan
- *Selikhovkin A.V., Varentsova E.Y., Popovichev B.G., Musolin D.L.* Dendropathogenic fungi and stem pests as a factor in the destruction of the forest ecosystems of the Karelian isthmus
- *Mikhailov K.L.* Analysis of the development of state-private partnership in the forestry of the taiga zone of the European North of Russia
- *Sivolapov A.I.* Poplar breeding of Voronezh State Forest Technical University named after G. F. Morozov for protective afforestation
- *Utshkaliev M.D., Ahmetov R.S.* Inventory of green areas of Aktobe city of the Republic of Kazakhstan
- *Gerasimova O.A.* The variability of apple leaves in 2016 in the Botanical garden named after Vs.M. Krutovsky
- *Chernenkova T.V.* Assessment of the condition of Eastern European forests by ground and satellite data
- *Blagodarova T.A.* Prospects for breeding and reproduction of alder in the Central Chernozemje

Discussion and conclusions

2. BIOREFINERY AND INNOVATIVE PRODUCTS OF FOREST BIOMASS CHEMICAL TREATMENT

Moderators: Victor Roschin, Valeriya Nekrasova

I-231

- *Nekrasova V.B.* Therapeutic and prophylactic remedies from wood biomass
- *Leonovich A.A.* Solid phase transformations during pressing of medium density fibreboard
- *Schkolnikov E.V.* Kinetics of extraction-hydrolysis of pine bark under water, acid and alkaline treatment
- *Evstigneev E.I.* Selective destruction and valorisation of lignin
- *Vigranenko Y.T.* Carboxylation of furfural, catalyzed by carbonyl complex of iron, cobalt and nickel compounds
- *Ermolinskiy V.G.* Opinions and facts in the development of the theoretical basics in the pulp and paper industry and technologies of synthetic fibers
- *Korotkiy V.P.* Feed additive for high-productive cows based on woody greenery
- *Lasheva V.G., Todorova D.A.* Research of packaging paper with antibacterial properties for active packaging
- *Rakovskaya E.G.* Biorefining as a green solution for the utilization of wood waste
- *Poplyak E.O.* Acoustic influence on the birch bast extraction by an aqueous solution of alkali
- *Stepanova I.V.* Obtaining of the chlorine-containing derivative from oxidized hydrolytic lignin
- *Tsvetkova E.G.* Research of the chemical composition of intermediate products in xylitol production
- *Bakanov V.V.* Extractive compounds of the lower part sporocarp of shiitake mushrooms (LENTINULA EDODES)
- *Popchyk M.V.* Organic synthesis based on 5-hydroxymethylfurfural
- *Chu K.N.* Modification of chemical structure of bamboo charcoal in the process of thermal activation
- *Mikson D.S.* Esters from fallen needles of Siberian larch
- *Silina A.V.* low-molecular compounds of the elecampane roots
- *Mikulintseva M.Y.* Liquid products of wood pyrolysis - a promising crude for the production of various chemicals
- *Dao Nguen Man* Composition of terpenoids from male generative microstrobils and female generative sprouts
- *Akhmetov R.S.* Snow distribution in the system of field-protective forest belts of the Aktobe Region of the Republic of Kazakhstan
- *Latyshevich I.A.* Development of thermosetting compositions using modified terpenoid-maleic adducts
- *Luginina L.I.* Comparative analysis of scots pine (*Pinus sylvestris* L.) forest cultures in the Republic of Tatarstan
- *Sokolova N.V.* Certification of woody biomass and global climate change
- *Fedorova O.V.* Biofuel from black liquor produced by sulfate pulp production
- *Ryzhov V.A.* Active coal feed additive for cattle breeding based on low-grade charcoal
- *Akim E.L.* Biorefining of wood biomass
- *Pecarets A.A.* Creation of technology for obtaining fuel and coal briquettes from sawdust of larch wood
- *Vinogradov N.V.* Methods for the production of arabinogalactan from larch wood
- *Karpov I.A.* The technology of separation of arabinogalactan and lignin from alkaline

- extracts derived from cooking soluble cellulose
- *Mandre U.G.* Carbonization and torrefication of wood
- *Smorodin S.N.* Thermotechnical analysis of biofuel as a basis for the development of technological recommendations

Discussion and conclusions

3. WOODED BASED PRODUCTS AND PROSPECTS OF PREFABRICATED WOODEN HOUSES

Moderators: Anatoly Chubinsky, Konstantin Frolov

I-300

- *Chubinsky A.N.* Wood in construction: advantages and disadvantages
- *Karataev S.G.* Solution of actual issues in the production and use of panels with a wooden frame for low-rise construction
- *Shlyonov N.G.* Actual problems of the use of wood for the manufacture of window blocks
- *Kiriutina S.E.* On the reliability and durability of wooden structures in low-rise residential buildings
- *Fedyayev A.A.* Thermal losses of wooden houses factory made
- *Rusakov D.S.* Use of by-products of cellulose production for gluing of plywood
- *Sergeevichev A.V.* Analysis of the influence of the cutting speed on the roughness of the ground surface
- *Lukin V.G.* Effect of wood coloring on the decorative properties of a substitute for natural spruce
- *Vasiliev V.V.* Intensification of the curing process of melamine-urea-formaldehyde resins
- *Gamova I.A.* Shredded waste of decorative paper-resin films - adhesive of particle board
- *Lushina N.V.* Modeling of tree structures by Voronoi polygons
- *Ivanov M.M.* Technical solutions in wooden housing construction
- *Eliseev I.V.* Development of a model for sawn timber cutting optimization in the presence of a saw positioning system
- *Guziuk S.P.* Directions for improving woodworking equipment

Discussion and conclusions

4. PRACTICAL EXPERIENCE IN SUSTAINABLE USE OF FOREST REOURCES AND MODERN METHODS OF THEIR ECONOMIC ASSESSMENT

Moderators: Alexander Alekseev, Alexey Eglit

I-343

- *Lobovikiv M.A.* Stumpage evaluation of wood in the United States of America
- *Pryadilina N.K.* Regional forest governance: from local forest management project to forest plan of Russian Federation Subject
- *Alekseev A.S., Belenky Y.I., Guryanov M.O.* Estimation of the rent for forest fund compartments and calculation of lease payment for forest resources use
- *Isaev A.P., Kiryanen A.I., Labudin A.V., Samodurov A.A.* Evaluation and analysis of corporate income in the economic activity of enterprise.
- *Katkova T.E.* Economic nature of the payments for forest resources use
- *Schepilina Y.S., Debrin M.V.* Mathematical modelling as a tool for intensification of forest resources use and wood treatment
- *Polyanskaya O.A.* Problems and perspectives of complex processing of wood raw materials at the enterprises of a forest complex
- *Pushkaryova L.G., Zayats A.M.* Program complex of determination of admissible volume of wood outtake according to forest management data
- *Paniutin A.N.* Small entrepreneurship as factor of forest sector development.
- *Levoshkin V.V., Minaev A.N.* Increase in productivity of loading and unloading equipment in forest ports of Russia
- *Garbuzova T.G.* Sustainable forest management as an effective tool for forest biodiversity protection
- *Nguyen Thi Nhan* Forest sector of the economy of the Socialist Republic of Vietnam: the potential for sustainable development and integration in the system of global economic relations

Discussion and conclusions



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