

Preliminary Schedule of Conference RR 2017

Monday **September 18, 2017**

09:30 – 10:00 *Opening Ceremony*

10:00 – 11:20 **Plenary Lectures**

10:00 – 10:40 Xu C., Xu W., Liu J., Dax D., Pranovich A., Willför S.
FROM WOOD-BASED POLYSACCHARIDES TO 3D SCAFFOLDS
FOR BIOMEDICAL APPLICATIONS

10:40 – 11:20 Ananikov V.
RENEWABLE RESOURCES FOR ORGANIC SYNTHESIS

11:20 – 11:40 *Coffee break + Exhibition Visiting*

11:40 – 13:40 **Plenary Lectures**

11:40 – 12:20 Brosse N., Deglise X.
RESEARCH ACTIVITY IN LERMAB (WOOD RESEARCH UNIT),
AN EXAMPLE: PHYTOREMEDIATION WITH TREES AND PLANTS

12:20 – 13:00 Gravitis J.
FROM CIRCULAR BIOECONOMY TO THE FOURTH INDUSTRIAL
REVOLUTION

13:00 – 13:40 Balakshin M., Capanema E.
ACHIEVEMENTS AND CHALLENGES IN LIGNIN VALORIZATION:
FUNDAMENTALS AND APPLICATIONS

13:40 – 15:00 *Lunch (optional)*

15:00 – 15:30 **Key Lecture**

15:00 – 15:30 Belgacem N., Bras J.
RECENT ADVANCES ON SURFACE MODIFICATION OF
POLYSACCHARIDES: FROM BASIC CONSIDERATIONS
TO CONCRETE APPLICATIONS

15:30 – 16:50 **Oral Presentations**

15:30 – 15:50 Kilpeläinen P., Kitunen V., Venäläinen M., Ilvesniemi H.
HOT WATER EXTRACTION OF SPRUCE BARK TANNINS

15:50 – 16:10 Salamon I., Zheljazkov V.
JUNIPER ESSENTIAL OIL (OLEUM JUNIPERI) – ITS CURATIVE
AND INDUSTRIAL UTILIZATION

16:10 – 16:30 Korpinen R., Sarjala T., Koivula H., Mikkonen K., Saloranta P., Nurmi M., Willför S., Saranpää P.
SUBERIN FATTY ACIDS EXTRACTED FROM BIRCH OUTER BARK AS STARTING MATERIAL FOR FUNCTIONAL SURFACES

16:30 – 16:50 Strand A., Retulainen E., Kouko J., Oksanen A., Salminen K., Ketola A., Sundberg A.
IN-SITU ANALYSIS OF BIO-BASED POLYELECTROLYTE COMPLEXES BY FLOW CYTOMETRY

17:00 – 19:00 **Round Table Discussion**
«Chemical and technological aspects of biorefining»

Akim E.
BIO-REFINERY OF LARCH & ASPEN, AS EXAMPLE
BIO-REFINERY OF WOOD

19:00 – 21:00 *Welcome Party*

Tuesday **September 19, 2017**

09:30 – 11:30 **Plenary Lectures**

09:30 – 10:10 Sinitsyn A.
SCALE UP OF LIGNOCELLULOSE BIOCONVERSION PROCESS

10:10 – 10:50 Rojas O., Zhang Y., Vuoriluoto M.
NANOCELLULOSES IN DETECTION, AFFINITY SEPARATION AND BIOACTIVE SYSTEMS

10:50 – 11:30 Shpatov A., Popov S., Um B., Lee J., Pshennikova L.
LOW POLAR EXTRACTIVES FROM FOLIATED BRANCHES OF KOREAN AND SIBERIAN PINES (PINUS KORAIENSIS AND P. SIBIRICA): COMPOSITION, DISTRIBUTION, AND BIOACTIVITY

11.30 – 11.50 *Coffee break + Exhibition Visiting*

11:50 – 13:50 **Key Lectures**

11:50 – 12:20 Matsumoto Y., Yokoyama T.
16 TYPES OF β -O-4 STRUCTURES IN LIGNIN – THEIR PRESENCE MANNER IN WOOD AND CHEMICAL REACTIVITY DURING BIOREFINING

12:20 – 12:50 Evtuguin D., Reis A., Mendes de Sousa A., Ataíde A.

IMPROVED NANOFIBRILLATED CELLULOSE PRODUCTION
FROM PAPER GRADE E. GLOBULUS KRAFT PULP

12:50 – 13:20 Mamleeva N., Kharlanov A., Babaeva N., Autlov S.,
Bazarnova N., Lunin V.
TRANSFORMATION OF HARDWOOD AND SOFTWOOD UNDER
OZONE IMPACT

13:20 – 13:40 **Oral Presentation**

13:20 – 13:40 Ismayati M., Nakagawa-Izumi A., Ohi H.
WOOD EXTRACTIVES AND BARK CONDENSED TANNIN AS
NATURAL PRESERVATIVES TOWARDS SUBTERRANEAN
TERMITES

13:40 – 13:55 **Sponsor Presentation**

13:55 – 15:10 *Lunch (optional)*

15:10 – 17:20 **Round Table Discussion**
«Biofuels from wood and plant materials, and structured carbon materials»

Mandre Yu., Akim E.
BIO-ENERGY & BIO-FUEL - ENERGY ASPECTS
OF BIOREFINING OF WOOD

Bogdanovich N., Romanenko K.
HYDROLYSIS INDUSTRY'S WASTE RECYCLING FOR PRODUCE
HIHCARBON ADSORBENTS

Spitsyn A., Chu Cong Nghi, Ponomarev D., Bogdanovich N., Romanenko
K. MONOLITH BIOCARBONS FROM BAMBOO – PRODUCTION
AND PROPERTIES

Belousov I.
EFFECT OF WOOD BIOMASS COMPACTION ON PYROLYSIS
KINETICS

17:20 – 17:40 *Coffee break + Exhibition Visiting*

17:45 – 19:45 *Saint-Petersburg Sightseeing Evening Tour*

Wednesday *September 20, 2017*

09:30 – 11:30 **Key Lectures**

- 09:30 – 10:00 Mika L., Tukacs J.
VALORIZATION OF BIOMASS WASTES
TO γ -VALEROLACTONE AND ITS USE
AS A SOLVENT FOR CATALYSIS
- 10:00 – 10:30 Stashenko E., Martinez J., Prada F., Gonzalez A., Correa J.
THE ROLE OF HIGH-RESOLUTION ANALYTICAL TECHNIQUES
IN THE STUDY OF PLANT SECONDARY METABOLITES AND
THEIR INTERACTIONS WITH THE ENVIRONMENT
- 10:30 – 11:00 Tripathi A., Khan S., Rojas O.
RATIONAL DESIGN PRINCIPLES TO CREATE POROUS FIBERS
FROM CELLULOSE ESTERS
- 11:00 – 11:30 Ohi H., Salaghi A., Maryana R., Liu Q., Rizaluddin A.
TOTALLY CHLORINE-FREE BLEACHING OF HARDWOOD
PREHYDROLYSIS-KRAFT PULP USING PEROXYMONOSULFURIC
ACID STAGES
- 11:30 – 11:50 *Coffee break + Exhibition Visiting*
- 11:50 – 13:30 **Oral Presentations**
- 11:50 – 12:10 Matt L., Villo P., Toom L., Liblikas I., Pehk T., Vares L.
HYDROFORMYLATION OF BIOMASS-BASED OLEFINIC
DERIVATIVES OF ISOSORBIDE
- 12:10 – 12:30 Mimini V., Hashim S.N.A.S., Sumerskii I., Zinovyev G., Fackler K.,
Potthast A., Rosenau T. ISOLATION AND CHARACTERIZATION
OF LIGNOSULFONATE OBTAINED FROM SULPHITE SPENT
LIQUOR BY ADSORPTION ON XAD-7 RESIN
- 12:30 – 12:50 Maslova O., Senko O., Stepanov N., Lyagin I., Aslanli A., Makhlis T.,
Efremenko E.
POLYFUNCTIONAL ENZYMATIC BIOLOGICS FOR
DEVELOPMENT OF TECHNOLOGY USEFUL FOR IMPROVEMENT
OF QUALITATIVE CHARACTERISTICS OF RENEWABLE
VEGETABLE RAW MATERIALS
- 12:50 – 13:10 Chadha A., Kabilan C., Muthu D.
HIGH VALUE ADDED PRODUCT (DHA) AND BIOFUEL FROM
ALGAE: SCREENING, ISOLATION AND PROCESS OPTIMIZATION
- 13:10 – 13:30 Cséfalvay E., Horváth I.
SUSTAINABILITY METRICS FOR BIOMASS-BASED
BASIC CHEMICALS
- 13:30 – 13:45 **Sponsor Presentation**

13:45 – 15:10 *Lunch (optional)*

15:10 – 16:30 Oral Presentations

15:10 – 15:30 Bei M., Yuvchenko A.
THE SYNTHESIS OF FUMAROPIMARIC ACID BASED TRIAMIDES,
AMIDOAMIDINES AND 1,4-BISTRIAZOLES

15:30 – 15:50 Hamidah U., Arakawa T., H'ng Y., Nakagawa-izumi A., Kishino M.
PRETREATMENT WITH IONIC LIQUID FOR ENHANCING
ENZYMATIC SACCHARIFICATION OF SOFTWOOD

15:50 – 16:10 Krasikova A., Bogolitsyn K., Gusakova M., Gravitis J.
SCIENTIFIC BASES OF DEVELOPMENT OF EFFECTIVE
ENVIRONMENTALLY FRIENDLY TECHNOLOGIES FOR
CHEMICAL PROCESSING OF PLANT RAW MATERIALS

16:10 – 16:30 Lundahl M., Cunha A.G., Klar V., Orelma H., Vuoriluoto M., Rojas O.
FILAMENTS OF CELLULOSE NANOFIBRILS VIA HYDROGEL
SPINNING

16:30 – 18:00 *Coffee break + Poster Session*

19:00 – 22:00 *Banquet «Restaurant in the Palace of Grand Duke Vladimir»*

14:30 – 18:30 *Hermitage Museum Tour (optional)*

Thursday September 21, 2017

09:30 – 11:30 Key Lectures

09:30 – 10:00 Nikitina L., Startseva V., Lodochnikova O., Bodrov A.,
Artemova N., Fedyunina I., Klimovitskii A.
EXTRAORDINARY BEHAVIOR OF β -HYDROXY SULFOXIDES
AND SULFONES OF MONOTERPENE SERIES

10:00 – 10:30 Vaccaro L., Trombettoni V.
NOVEL BIOMASS-DERIVED SOLVENTS FOR REPLACING
CLASSIC REACTION MEDIA

10:30 – 11:00 Grigoray O., Wondraczek H., Pfeifer A., Daus S., Kühnöl K.,
Latifi S., Saketi P., Kallio P., Heinze T., Fardim P.
PREPARATION OF LIGHT-RESPONSIVE KRAFT PULP FIBERS
AND STUDY OF THEIR PROPERTIES

11:00 – 11:30 Amer H., Colson J., Nypelö T., Henniges U., Potthast A., Rosenau T.
SURFACE HYDROPHOBIZATION OF CELLULOSIC PULPS USING

PLANT OILS AS GREEN SOLVENT MEDIA

11:30 – 11:50 *Coffee break + Exhibition Visiting*

11:50 – 13:50 Oral Presentations/Auditorium A

11:50 – 12:10 Trombettoni V., Campana F., Marrocchi A., Vaccaro L.
TAILOR-MADE ORGANIC HETEROGENEOUS CATALYSTS
FOR THE CONTINUOUS-FLOW PRODUCTION OF ALKYL
LEVULINATES

12:10 – 12:30 Soldatkina L., Salamon I., Novotna V., Tutunnik T. MODELING OF
EXTRACTION REMOVAL OF BIOLOGICALLY ACTIVE
SUBSTANCES FROM JUNIPER BERRIES

12:30 – 12:50 Galkin K., Krivodaeva E., Kashin A., Romashov L., Ananikov V.
IMPROVED SYNTHESIS AND STABILIZATION
OF BIO-DERIVED 5-HMF

12:50 – 13:10 Korotkova E., Pranovich A., Ozhimkova E., Sulman E., Willför S.
MILD-ALKALINE-EXTRACTED SPRUCE LIGNIN
AS A PLANT GROWTH REGULATOR

13:10 – 13:30 Sumerskii I., Zinovyev G., Sulaeva I., Rosenau T., Potthast A.
FAST TRACKS FOR ACCURATE LIGNIN CHARACTERISATION

13:30 – 13:50 Baker R., Thapa I., Ntais S., Baranova E., Lau M., Hass C., Millis J.
C6 DIACIDS FROM HOMOCITRIC ACID LACTONE
USING RELAY HETEROGENEOUS CATALYSIS

11:50 – 13:50 Oral Presentations/Auditorium B

11:50 – 12:10 Subbotina K., Fedorova O., Kazakov V.
POLYALKYLACRYLATE INFLUENCE OF SODIUM ON THE
SURFACE TENSION OF THE BLACK LIQUOR IN THE
MANUFACTURE OF SULPHATE PULP

12:10 – 12:30 Andranovich O., Demyantseva E., Smith R., Kharlamova A.
EFFECTIVENESS IMPROVEMENT OF SULPHATE SOAP
SEPARATION FROM PULP AND PAPER PRODUCTION SPENT
LIQUORS

12:30 – 12:50 Kutakova N., Tatarinceva V.
SPRUCE ALCOHOL EXTRACTS ARE SOURCE OF BAS

12:50 – 13:10 Smith R., Demyantseva E., Grigor'ev M., Dergacheva O.,
Andranovich O.
COMPARATIVE ANALYSIS OF DERESINATION ACTION OF
SURFACTANTS AND ENZYMES

13:10 – 13:30 Romanenko K., Bogdanovich N.
OBTAINING OF ACTIVATED CARBONS BY PYROLYSIS OF
HIDROLYTIC LIGNIN

13:30 – 13:50 Latyshevich I., Klyuev A., Prokopchuk N., Kozlov N.
THE EFFECT OF ALKANOLAMINE SALTS OF
DISPROPORTIONATED ROSIN ON THE OPERATIONAL
PROPERTIES OF MODEL COMPOSITIONS FOR PRECISION
CASTING

13:50 – 15:10 *Lunch (optional)*

15:10 – 17:10 Oral Presentations/Auditorium A

15:10 – 15:30 Budjav E., Ghorbani M., Requejo-Silva A., Unterweger C.,
Konnerth J., Liebner F.
THERMO-INDUCED GELLING OF DILUTED LIGNEOUS RESOLE
RESIN PRE-CONDENSATES IN ETHYLENE GLYCOL: A FACILE
APPROACH TOWARDS HIGHLY OPEN MESOPOROUS
MONOLITHIC AEROGELS AND CARBON AEROGELS

15:30 – 15:50 Sizov A., Kruchina-Bogdanov I., Laptev A.
BIRCH WOOD HEMICELLULOSE HYDROLYSIS WITH
HYDROGEN CHLORIDE GAS-AIR MIXTURES FOR XYLITOL
PRODUCTION

15:50 – 16:10 Gabov K., Hemming J., Fardim P.
ONE-STEP FRACTIONATION OF SUGARCANE BAGASSE USING A
HYDROTROPIC PROCESS

16:10 – 16:30 Alekseeva E., Lipin V.
MODERN TECHNOLOGIES IN THE PULP INDUSTRY

16:30 – 16:50 Senko O., Stepanov N., Maslova O., Efremenko E.
IMMOBILIZED BIOCATALYST FOR CONVERSING
OF HYDROLYSATES OF VEGETABLE WASTES
INTO POLYSACCHARIDES

16:50 – 17:10 Zemnukhova L., Arefieva O., Kovekhova A., Makarenko N.,
Turmasheva V.
OBTAINING, COMPOSITION AND PROPERTIES
OF CARBON-CONTAINING SORBENTS FROM PLANT RAW
MATERIALS

15:10 – 17:10 Oral Presentations/Auditorium B

15:10 – 15:30 Panasenko A., Yarusova S., Zemnukhova L., Gordienko P.

KINETICS OF CESIUM SORPTION BY ALUMINOSILICATE
SORBENTS PREPARED FROM RICE STRAW)

- 15:30 – 15:50 Subbotina K., Polyakova K., Fedorova O., Chebanova O., Kazakov V.
A METHOD OF PROCESSING DEPOSITS BASED ON CALCIUM
SILICATES
- 15:50 – 16:10 Trifonov R., Zorina A., Anokhina V.
NITROGEN HETEROCYCLIC DERIVATIVES
OF PLANT TRITERPENIOLS
- 16:10 – 16:30 Kokluhin A., Mozhaev A., Nikulshina M., Minaev P., Pimerzin A.,
Nikulshin P.
THE USE OF NI(CO)MOS CATALYSTS SUPPORTED ON ALUMINA
FOR CO-HYDROTREATING OF STRAIGHT-RUN GAS OIL WITH
SUNFLOWER OIL
- 16:30 – 16:50 Rogovina S., Aleksanyan K., Loginova A., Vladimirov L., Berlin A.
PRODUCTION, PROPERTIES AND MORPHOLOGY OF
BIODEGRADABLE COMPOSITIONS BASED ON PLA AND
POLYSACCHARIDES
- 16:50 – 17:10 Furazov M., Panov U., Kryukov S., Kryazhev V.
FLAX CELLULOSE AS RAW MATERIAL FOR MANUFACTURING
SUBSTITUTED CARBOXYLMETHYLCELLULOSE
- 17:10 – 17:30 *Coffee break + Exhibition Visiting*
- 18:30 – 19:00 *Closing Ceremony*
- 12:30 – 18:30 *Excursion to Oranienbaum (Menshikovskiy Palace and Park) (optional)*

Friday **September 22, 2017 (leaving day)**

- 10:00 – 13:00 *Excursions to the Museums and Botanic Garden
of Forest Technical University*