Preliminary Schedule of Conference RR 2017

Monday ***September 18, 2017***

09:30 – 10:00 *Opening Ceremony*

10:00 – 11:20 Plenary Lectures
Chairperson Vasilyev A.V.

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
Chairperson Willför S.

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

13:40 – 15:00 *Lunch (optional)*

15:00 – 15:30 Key Lecture
Chairperson Deglise X.

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»
Co-Moderators Akim E. and Holmbom B.

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
Chairperson Belgacem N.

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

10:10 – 10:50 Balakshin M., Capanema E.
ACHIEVEMENTS AND CHALLENGES IN LIGNIN VALORIZATION: FUNDAMENTALS AND APPLICATIONS

10:50 – 11:30 Chadha A., Kabilan C., Muthu D.
HIGH VALUE ADDED PRODUCT (DHA) AND BIOFUEL FROM ALGAE: SCREENING, ISOLATION AND PROCESS OPTIMIZATION

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

11:50 – 13:50 Key Lectures
Chairperson Balakshin M.

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.
IMROVED 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 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

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»
Co-Moderators Ponomarev D and. Bogdanovich N.

Mandre Yu., Akim E. (40 min.)
BIO-ENERGY & BIO-FUEL - ENERGY ASPECTS OF BIOREFINING OF WOOD

Bogdanovich N., Romanenko K. (20 min.)
HYDROLYSIS INDUSTRY'S WASTE RECYCLING FOR PRODUCE HIHCARBON ADSORBENTS

Spitsyn A., Chu Cong Nghi, Ponomarev D., Bogdanovich N., Romanenko K. (20 min.)
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
Chairperson Evtugin D.

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
Chairperson Sinitsyn A.

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

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
Chairperson Ohi H.

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 ***Poster Session*** *+ Coffee break*

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

Chairperson Matsumoto Y.

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., Henninges 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
Chairperson Pranovich 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
Chairperson Mika L.

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.
EFFECTIVENSS IMPROVEMENET THE 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., Derkacheva 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 – 17:30 Oral Presentations/Auditorium A
Chairperson Stashenko E.

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

17:10 – 17:30 Ovchinnikova E.
ETHYLENE FROM SECOND-GENERATION ETHANOL: INFLUENCE OF IMPURITIES AND PROSPECTS FOR COMMERCIAL APPLICATION

15:10 – 17:30 Oral Presentations/Auditorium B
Chairperson Mamleeva N.

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 TRITERPENIODS

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 Saetshin A., Valishina Z., Matuhin E., Kostochko A.
MODERNIZATION OF GRINDING TECHNOLOGY AND METHODS FOR STUDYING THE STRUCTURE OF FIBROUS MATERIALS IN THE PROCESS OF ITS PRODUCTION

17:30 – 18:00 Coffee break + Exhibition Visiting

18:00 – 18:30 Closing Ceremony

12:30 – 18:00 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

POSTER SESSION RR 2017

P-1 Abramov I., Akim E.
COMPARATIVE ANALYSYS OF PHYSICAL-MECHANICAL PROPERTIES OF FLUFF PULP FIBERS FROM CARRIVIAN PINE WOOD WITH BLEACHED KRAFT PULP FIBERS FROM SIBERIAN LARCH AND PINE WOODS

P-2 Acevedo L., Durán D., Martínez J., Stashenko E.
MSPD EXTRACTION OF THYMOL AND CARVACROL INCORPORATED INTO CHICKEN FEED AS POSSIBLE GROWTH PROMOTERS

P-3 Acevedo L., Durán D., Gonzaléz A., Martínez J., Stashenko E.
DETERMINATION OF THYMOL METABOLITES IN BROILER CHICKEN ORGANS THAT CONSUMING FOODS WITH NATURAL ADDITIVES, USING MSPD AND UHPLC-ESI(-)-ORBITRAP-MS

P-4 Agafonova E., Zakusilo D., Vasilyev A.

SUPERELECTROPHILIC ACTIVATION OF CINNAMYL NITRILE

P-5 Akhmedov O., Sohibnazarova K., Shomurotov S.
CHEMICALLY MODIFIED DERIVATIVES OF XANTHAN GUM AND BIOLOGICALLY ACTIVE COMPOUNDS ON THEIR BASIS

P-6 Aleksanyan K., Rogovina S., Berlin A.
BIODEGRADABLE COMPOSITIONS OF POLYLACTIDE WITH CHITOSAN AND ETHYLCELLULOSE

P-7 Alekseeva E., Sokolov V., Lipin V., Sustavova T.
EFFECT OF CHEMICAL ADDITIVES ON REDUCING THE DEGREE OF SWELLING IN THE TREATMENT OF ALKALI SOLUTION

P-8 Aryamova E., Sandzhieva M., Vasiliev A.
OXIDATIVE FUNCTIONALIZATION OF BENZYLIC $C(_{sp}{}^{3})$-H BONDS IN HALOGENARENES

P-9 Petrov V., Averianova N., Kuznetsova N., Gibadullin M., Chinga-Carrasco G.
CHARACTERIZATION OF NANOCELLULOSE MATERIALS

P-10 Babayeva F., Abasov S., Rustamov M.
THE REACTANT-CATALYST INTERACTION AT THE METHANE NONOXIDATIVE AROMATIZATION OVER NI REOX/AL2O3 CATALYST

P-11 Akhmedova R., Babayeva F., Ibragimov H., Abasov S., Rustamov I.
CATALYST FOR OBTAINING MOTOR FUEL FROM METHANOL

P-12 Bakhtiyarova A., Bandurina E., Yolkin V.
SORPTION PURIFICATION OFBIRCH WOOD HYDROLYSATE BY ACTIVE CARBON FROM CELLLOGIN

P-13 Bakhtiyarov D., Morozov M., Minnullin R., Galkina I., Galkin V., Bakhtiyarova Yu.
THE SYNTHESIS OF NEW MONO- AND DICARBOXYLATE PHOSPHOBETAINES ON THE BASIS OF TERTIARY PHOSPHINES AND CINNAMIC ACIDS

P-14 Bakhtiyarova Yu., Aksunova A., Galkin V., Galkina I.
TRIPHENYLARSINE IN REACTIONS WITH ω-HALOALKYLCARBOXYLIC ACIDS

P-15 Bei M., Yuvchenko A., Muravsky A., Murauski A.

SYNTHESIS OF CHYRAL DOPANTS TO LIQUID CRYSTALS FROM NITROGEN CONTAINING TERPENOIDS

P-16 Benko E., Lunin V.
OZONOLYSIS AS A PRETREATMENT METHOD TO IMPROVE ENZYMATIC SACCHARIFICATION OF PLANT BIOMASS

P-17 Benouadah N., Pranovich A., Aliouch D., Willför S.
QUANTITATIVE AND QUALITATIVE ANALYSIS OF EXTRACTIVES FROM PINUS HALEPENSIS

P-18 Bernal D., Stashenko E., Martinez J., Sierra L.
CHEMICAL AND BOTANICAL DIVERSITY STUDIED THROUGH GM-MS ANALYSIS OF FLOWER SCENT ISOLATED FROM TROPICAL PLANTS

P-19 Samsonova V., Arkhilin M., Stafeyeva E., Bogdanovich N.
SYNTHESIS OF FERROMAGNETIC ADSORBENTS BASED ON HYDROLYTIC LIGNIN

P-20 Bulova A., Zerov A., Iakovenko R., Vasilyev A.
REACTIONS OF 2,4-DIARYL-1,1,1-TRIFLUOROBUT-3-EN-2-OLS AND THEIR TMS ETHERS WITH ARENES IN TRIFLUOROMETHANESULFONIC ACID

P-21 Caceres M., Torres R., Stashenko E., Ortiz C.
ANTIBACTERIAL EFFECT OF PLANT ESSENTIAL OILS FROM LIPPIA ORIGANOIDES AND THYMUS VULGARIS AGAINST PATHOGENIC BACTERIA

P-22 Chukicheva I., Buravlev E., Shchukina O., Fedorova I., Kutchin A.
SYNTHESIS, PROPERTIES AND APPLICATION OF TERPENOPHENOLS AND THEIR DERIVATIVES

P-23 Córdoba Campo Y., Mejía J., Martínez J., Stashenko E.
UHPLC-ESI(+)-ORBITRAP-MS FOR DETECTION OF PHENOLIC ANTIOXIDANTS IN EXTRACTS FROM PLANTS AND THEIR RESIDUAL BIOMASS

P-24 Dao N., Roshchin V.
GROUP COMPOUNDS EXTRACTED FROM MALE GENERATIVE STROBILUS AND FEMALE GENERATIVE SHOOT OF SCOTS PINE (PINUS SYLVESTRIS)

P-25 Denisenko G.

REGENERATION OF CONCENTRATED SULFURIC ACID BY ORGANIC SOLVENTS WHEN USING IT FOR THE PROCESS OF HYDROLYSIS OF PLANT RAW MATERIAL

P-26 Devleshova N., Lozovskiy S., Vasilyev A.
THE NEW APPROACH TO SYNTHESIS OF BIOACTIVE 3,5-DIARYLFURAN-2-ONES

P-27 Dotsenko A., Rozhkova A., Zorov I., Gusakov A., Sinitsyn A.
LIGNOCELLULOSIC BIOMASS TRANSFORMATION TO ETHANOL: USING OF PRETREATMENT WITH IONIC LIQUIDS TO ENHANCE EFFECTIVENESS

P-28 Durán D., Arias A., Córdoba Campo Y., Mejía J., Tavera C., Hernández D., Pérez S., Acevedo P., Rodríguez G., Stashenko E., Martinez. J.
INTEGRAL USE OF LIPPIA ORIGANOIDES GROWN IN COLOMBIA

P-29 Evstigneyev E., Yuzikhin O., Gurinov A., Ivanov A., Artamonova T., Khodorkovskiy M., Bessonova E.
STRUCTURE, PHYSICAL-CHEMICAL PROPERTIES AND POSSIBLE WAYS OF UTILIZATION OF OXIDIZED HYDROLYSIS LIGNIN

P-30 Fedotova N., Yolkin V.
CHEMICAL COMPOSITION OF INITIAL RAW MATERIALS (PINE WOOD), CELLOLIGNINE AND HYDROLYZATE OBTAINED WITH ALCOHOL BOILING

P-31 Fedulina T., Kiryushina M., Pranovich A.
SOLVENT EFFECT ON NMR SPECTRA OF CELLULOSE MODEL COMPOUNDS

P-32 Gashevskaya A., Dorozhko E.
DETERMINATION OF MICROBIOLOGICAL INDICATORS OF XANTHAN

P-33 Giniyatov N., Ahmadullin I., Borbuzanov V., Kostochko A., Valishina Z., Matuhin E.
PROBLEMS OF RAW MATERIALS SUPPLYING FOR CELLULOSE NITRATE PRODUCTION

P-34 González A., Oliveros C., Martínez J., Stashenko E.
STUDY OF SECONDARY METABOLITES ISOLATED FROM CANNABIS SPP

P-35 Krutov S., Gordin A., Gribkov I., Nagovitsyna O.
CHEMICAL COMPOSITION ANALYSIS OF HYDROLYSIS LIGNIN FROM KIROV BIOCHEMICAL PLANT

P-36 Gromov N., Medvedeva T., Taran O., Aymonier C., Parmon V.
HYDROLYSIS OF CELLULOSE TO GLUCOSE OVER SOLID ACID CARBON CATALYSTS IN FLOW REACTOR

P-37 Guba G., Gusar A., Dorozhko E.
POLYMERIZATION OF OLIGOMERS LACTIC ACID IN THE PRESENCE OF AMINO ACIDS UNDER MICROWAVE IRRADIATION CONDITIONS

P-38 Gusar A., Guba G.
MICROWAVE SYNTHESIS OF POLYLACTIC ACID

P-39 Holmbom T., Holmbom B.
A NOVEL NATURAL HYDROPHOBISATION TECHNOLOGY UTILISING BIRCH BARK EXTRACTIVES

P-40 Krutov S., Evtuguin D., Ipatova E.
THE ANALYSIS OF TECHNICAL LIGNINS FUNCTIONAL GROUPS BY ^{1}H NMR IN SOLUTION

P-41 Ibrayev M., Takibayeva A., Nurkenov O.
STUDYING ANTIOXIDANT PROPERTIES OF PROSPECTIVE HEPATOPROTECTOR «CYTAPHATE»

P-42 Ismagilova A., Zakusilo D., Vasilyev A.
ORGANIC SYNTHESIS BASED ON NATURAL COMPOUNDS. THE REACTION OF 5-PHENYL-2,4-PENTADIENOIC ACID WITH BENZENE IN TFOH

P-43 Yanov V., Ivanova M., Zenitova L., Mingaleev N.
CELLULOSE-CONTAINING WASTE - A MATERIAL FOR THE ELIMINATION OF OIL SPILLS

P-44 Ivanova V., Uvarova D., Habbina A., Makhotina L., Mandre Y., Akim E.
THE PRODUCTION OF POWDERY PULP AS ONE OF THE WOOD BIO REFINING DIRECTION

P-45 Kaplitsin P., Bogolicin K., Druzjinina A., Ovchinnikov D., Parshina A.
ENTEROSORPTION PROPERTIES OF ALGAL CELLULOSE

P-46 Karpinchik E., Puchkova N., Yuvchenko A., Agabekov V.
GREASE-COOLING LIQUIDS FOR METAL TREATMENT
ON THE BASIS OF RENEWABLE FOREST-CHEMICAL RAW MATERIALS

P-47 Kartasheva Z., Rusina I., Pisarenko L., Kasaikina O.
ACCELERATED CATALYTIC CONVERSION OF DRY OAK
AND MAPLE LEAVES INTO USEFUL PRODUCTS

P-48 Khakalo A., Filpponen I., Rojas O.
PROTEIN-ASSISTED INTERFACIAL ADHESION IN COMPOSITES OF
CELLULOSE NANOFIBRILS AND POLYLACTIDE: ENHANCED
TOUGHNESS TOWARDS MATERIAL THE RMOFORMING

P-49 Kirsankin A., Nikolskii S., Usachev S., Stovbun S.
THE DISSOLUTION OF TREATED WOOD CELLULOSE IN IONIC FLUIDS

P-50 Kiselev I.
INHIBITION OF THE ENZYME CATALASE OF PLANT CELLS
BY AUTOMOTIVE GASES

P-51 Klyauzova A., Kobrakov K., Ruchkina A.
CHEMICAL MODIFICATION AND ANTIOXIDANT ACTIVITY OF
HIGHBUSH BLUEBERRIES LEAF EXTRACTS

P-52 Kocheva L., Karmanov A.
UTILIZATION OF THE PROLONGED PERIOD OF STORAGE
BARK-WOOD-WASTES FROM THE REFUSES
OF THE WOODWORKING ENTERPRISES

P-53 Kozlova E., Ziyatdinova G., Morozova E., Budnikov H.
ANTIOXIDANT CAPACITY OF MEDICINAL HERBS
USING POLYGALLIC ACID MODIFIED ELECTRODE

P-54 Murav'ev A., Bochek A., Novoselov N., Spirina T., Sazanov Yu., Petrova V., Popova E., Yudin V., Krylova T.
RHEOLOGOCAL PROPERTIES OF THE SOLUTIONS AND STRUCTURAL
ORGANISATION OF THE OBTAINED FILMS FROM SOLUTION
CELLULOSE WITH POLYACRYLONITRILE AND CELLULOSE WITH
CHITIN IN IONIC LIQUIDS

P-55 Ladesov A., Belesov A., Kosyakov D., Shestakov S., Pochtovalova A., Pikovskoi I., Kurguzova N.
TREATMENT OF SPRUCE DIOXANE LIGNIN BY BINARY SYSTEMS

IONIC LIQUID-DMSO

P-56 Lozovskiy S., Vasilyev A.
HYDROARILATION OF CROSS-CONJUGATED
ARYL-SUBSTITUTED ENYNONES

P-57 Maksimova E., Vasilyev A.
OXIDATIONS OF ARABINOGALACTAN

P-58 Mammadkhanova S., Mammadova T., Abdullayev E., Hasanova A.,
Teyyubov K., Kocharli Z., Abbasov V.
USE OF THE MODIFIED NATURAL NANOTUBES IN THE PRODUCTION
PROCESS OF THE «GREEN DIESEL» FUELS

P-59 Martinez J., Stashenko E., Sierra L., Cordoba Y.
CHEMICAL CHARACTERIZATION OF THE VOLATILE FRACTIONS OF 25
TROPICAL FLOWERS BY HS-SPME/GC-MS

P-60 Mattos B., Ramos L., Rojas O., Magalhães W.
SURFACE FUNCTIONALIZATION OF BIOGENIC SILICA PARTICLES
ISOLATED FROM HORSETAIL AND THEIR POTENTIAL APPLICATION
AS CARRIERS IN BIOCIDE DELIVERY SYSTEMS

P-61 Matveeva E., Grishchenko L., Parshina L., Trofimov B.
HYDROAMINATION OF ARABINOGALACTAN PROPARGYL ETHERS
WITH IMIDAZOLE: SYNTHESIS OF NEW PHARMACEUTICALLY
PERSPECTIVE POLYSACCHARIDES

P-62 Medvedeva T., Gromov N., Taran O., Timofeeva M., Parmon V.
DEVELOPMENT OF BIFUNCTIONAL RU-CONTAINING CATALYSTS FOR
ONE-POT HYDROLYSIS-HYDROGENATION OF CELLULOSE TO
SORBITOL

P-63 Mejía J., Velandia S., Ocazionez R., Martínez J., Stashenko E.
STUDY OF THE CHEMICAL COMPOSITION AND EVALUATION
OF THE ANTIOXIDANT, CYTOTOXIC AND SENSITIZING POTENTIAL
OF ISOLATED EXTRACTS OF HIBISCUS ROSA-SINENSIS
AND THE RESIDUAL BIOMASS OF LIPPIA ORIGANOIDES

P-64 Mikhailidi A., Belkovich V., Vlasova E., Saprikina N., Kotelnikova N.
A ROBUST AND LOW COST WAY FROM PAPER
AND CARDBOARD TRASH TO FUNCTIONAL CELLULOSE POWDERS

P-65 Mikhailidi A., Saprikina N., Vlasova E., Mokeev M., Kotelnikova N.
CELLULOSE HYDROGELS AS DEPOT FOR HYBRID NANOCOMPOSITES WITH SILVER AND GOLD NANOPARTICLES PREPARED BY «GREEN» SYNTHESIS

P-66 Mikulintseva M., Ponomarev D., Spitzyn A., Grachev A.
SOME PROPERTIES OF CHEMICAL COMPOSITION OF WOOD ABLATION PYROLYSIS BIO-OIL

P-67 Nikiforova N., Zorina A., Anokhina V., Trifonov R.
NOVEL PYRAZINE-CONTAINING ANALOGS OF LUPENONE AND DAMMARANE TRITERPENOIDS

P-68 Nursahedova S., Vasilyev A.
REACTIONS OF CF3-PROPARGYL ALCOHOLS WITH ARENES UNDER THE ACTION OF ACIDIC ZEOLITE CBV-720

P-69 Oliveros C., Martínez J., Stashenko E.
SECONDARY METABOLITES IN ESSENTIAL OILS AND EXTRACTS FROM PATCHOULI CULTIVATED IN COLOMBIA

P-70 Plotnikova L., Nechiporenko U., Uspenskaya M., Plotnikova N., Ishevskiy A.
STUDY OF OIL EXTRACTS OF PLANT MATERIALS BY THE METHOD OF REFRACTOMETR

P-71 Prada F., Martínez J., Stashenko E.
FATTY ACID COMPOSITION AND PYRROLIZIDINE ALKALOIDS IN OILS FROM SIX CROTALARIA SPECIES (FABACEAE) GROWING IN THE WILD IN COLOMBIA

P-72 Pranovich A., Xu W., Willför S., Xu C.
LIGNIN-PLA BIOPOLYMER COMPOSITE FOR 3D PRINTING

P-73 Raskildina G., Zlotsky S.
PRODUCTION AND TRANSFORMATION CYCLIC ACETALS OF HYDROXYMETHYLFURFURAL

P-74 Reyes G., Borhei M., Khakalo A., Rojas O.
CELLULOSE AND CHITIN NANOFIBER FILMS WELDING VIA IONIC LIQUIDS

P-75 Rozhkova A., Korotkova O., Dotsenko A., Zorov I., Schwanenberg U., Sinitsyn A.

PENICILLIUM CANESCENS AS A POTENTIAL TOOL FOR PRODUCTION OF TAILORED CELLULASE COCKTAILS

P-76 Rusina I., Kartasheva Z., Pisarenko L., Kasaikina O., Apasheva L., Rubtsova N.
CATALYTIC PROCESSING OF PLANT WASTE RESULTS IN PULP AN LIQUID PRODUCTS CAPABLE OF REGULATING THE GROWTH OF PLANTS

P-77 Ryabukhin D., Lisakova A., Zalivatskaya A., Vasilyev A.
HYDROPHENYLATION OF 2-METHYL-5-(PHENYLETHYNYL)-2H-TETRAZOLE UNDER SUPERELECTROPHILIC ACTIVATION

P-78 Saetshin A., Valishina Z., Matuhin E., Kostochko A.
MODERNIZATION OF GRINDING TECHNOLOGY AND METHODS FOR STUDYING THE STRUCTURE OF FIBROUS MATERIALS IN THE PROCESS OF ITS PRODUCTION

P-79 Salamon I.
CHAMOMILE, MATRICARIA RECUTITA, IN SLOVAKIA - CURATIVE PROPERTIES

P-80 Schekoldina Z., Kizim N.
EXTRACTION OF ANTHOCYANINS FROM HAWTHORN FRUITS

P-81 Shapovalov V., Zakusilo D., Vasilyev A.
ORGANIC SYNTHESIS BASED ON NATURAL COMPOUNDS. THE REACTION OF 1,5-DIPHENYLPENTA-2,4-DIEN-1-ONE WITH BENZENE IN TFOH

P-82 Sheloumov A.
THE THERMIC DESTRUCTION PROCESS OF THE PHOSPHORUS-NITROGEN-CONTAINING FLAME-RETARDANTS FOR THE WOOD COMPOSITE MATERIALS

P-83 Shkol`nikov E.
CHEMICAL PROCESSING AND COMPREHENSIVE UTILIZATION OF TREE BARK

P-84 Sierra L., Mejía J., Martínez J., Stashenko E.
GC-MS AND LC-MS STUDY OF SECONDARY METABOLITES ISOLATED FROM TROPICAL FLOWERS

P-85 Smirnova E., Zhuravleva N., Reznik A., Kizevetter D.

MODIFICATION OF CELLULOSE DIELECTRICS BY STRUCTURE-FORMING BIOCOMPONENTS

P-86 Sysoeva A., Tikhomirova L., Bazarnova N.
BIOTECHNOLOGY OF RECEIVING RENEWABLE RAW MATERIALS OF A SILVERWEED WHITE (POTENTILLA ALBA L.) IN CONTROLLED CONDITIONS

P-87 Tardy B., Ago M., Guo J., Borghei M, Kamarainen T., Rojas O.
INTERFACIAL ASSEMBLY AND SUPERSTRUCTURING OF CELLULOSE NANOCRYSTALS AT THE AIR-WATER-AIR INTERFACE

P-88 Tranchuk N., Roshchin V.
PHENOLICS FROM LARIX SIBIRICA CROWN

P-89 Tretyakov S., Kutakova N., Bezumova A.
EXTRACTION OF BIOACTIVE SUBSTANCES FROM BIRCH BARK IN MICROWAVE FIELD

P-90 Vasilyev V., Hosseini Z., Mazur A.
IDENTIFICATION OF STRUCTURAL UNITS OF PHENYLPROPAN HARDWOOD LIGNIN BY MEANS OF 13C NMR SPECTRA IN A SOLID

P-91 Vedernikov D.
CARYOPHYLLENIC ACIDS BUDS OF BIRCH TREES CERTAIN TYPE

P-92 Yekubjanov M., Veshnyakov V., Khabarov Yu., Kuzyakov N.
SPECTROPHOTOMETRIC DETERMINATION OF LIGNIN IN HYDROLYSIS LIGNIN

P-93 Vigranenko Y., Koluzhnikova Y., Kocheregin S., de Vekki A.
FURFUROL'S HYDROFORMYLATION AND HYDROGENATION CATALYZED BY COBALT AND RHODIUM CARBONYLS COMPLEXES

P-94 Voronov M., Gustyakova S., Zhila M., Sapunov V.
CONVERSION OF WASTES FROM FATTY ACID METHYL ESTERS PRODUCTION TO HIGH VALUE-ADDED CHEMICALS

P-95 Voznyakovskii A., Krutov S.
LIGNIN AS THE SOURCE OF GRAPHENE-LIKE STRUCTURES

P-96 Yurtaeva E., Remesova I., Luzhnova S., Tyrkov A.

THE METOD FOR PRODUCING AND CHEMICAL COMPOSITION_
EXTRACTIVES FROM LOPHANTUS ANISATUM BENTH

P-97 Yusupov R., Zenitova L., Yanov V., Dautova A., Alekseev E.
NATURAL RUBBER - A RAW MATERIAL OF VEGETABLE ORIGIN - AS A COMPONENT OF DECOMPOSABLE POLYMER COMPOSITIONS

P-98 Zanko N., Rakovskaya E.
TO THE ISSUE OF WASTE UTILIZATION OF CHEMICAL TECHNOLOGY OF WOOD

P-99 Zarubaev V., Galochkina A., Babkin V., Ostrouhova L.
ANTI-VIRAL ACTIVITY OF DIHYDROQUERCETIN, THE MAJOR FLAVONOID OF SIBERIAN LARCH LARIX SIBIRICA L

P-100 Zerov A., Kazakova A., Vasilyev A.
REACTIONS OF 2,4-DIARYL-1,1,1-TRIFLUOROBUT-3-YN-2-OLS WITH ARENES UNDER THE ACTION OF TRIFLUOROMETHANESULFONIC ACID

P-101 Zhilkibayev O., Mukhamadiev N., Baimukhanbetov S., Brimzhanov Z.
UNIVERSAL ORGANIC FERTILIZER ELDOROST FOR RENEWABLE PLANT RESOURCES

P-102 Zorov I., Rozhkova A., Shashkov I., Schwaneberg U., Sinitsyn A.
ANALYTICAL METHODS IN THE PROCESSES OF RENEWABLE BIOMASS BIOCONVERSION

P-103 Zubov I., Selyanina S., Orlov A., Trufanova M., Yarygina O.
PRODUCTION OF PEAT-BASED PREPARATIONS ENRICHED WITH STEROLS