

## International Congress "Biomass: Fuel & Energy - 2018"

### Program

#### Day 1, Wednesday April 18, 2018

8:30 Registration and welcome coffee

**9:30 - 11:00 Opening session. Introduction. Legislation, Public Policy and Infrastructure of the Biofuel Market. Biomass: supply and demand, logistics, preprocessing.**

*Biofuel as a tool for regional development. Government initiatives on biofuels market development. The possibility of ethanol production without excise tax.*

Moderator: Alex ABLAEV, PhD, President, Russian Biofuels Association

**Alex ABLAEV, PhD, President, Russian Biofuels Association**

April theses.

**Eduard AKIM, Doctor of Technical Sciences, Professor, Honorary Member of the UN FAO Advisory Committee on Forest Sector Sustainability. Head of Department, Higher School of Technology and Energy of St. Petersburg State University of Industrial Technologies and Design**

Global trends in biomass production and use.

**Olga KOCHETKOVA, Deputy Director, Department of Social Development and Innovations, Ministry of Economic Development of the Russian Federation**

New roadmap for "Development of biotechnologies and genetic engineering on 2018 – 2020"

**Alexander YANENKO, Doctor of Biological Sciences, Professor, Director, Kurchatov Institute - GosNIIGenetika**

Roadmap activities for "Development of Biotechnologies and Genetic Engineering" in 2018 - 2020: formation of proposals to ensure favorable conditions for development of the motor biofuels market.

11:00 - 11:30 Coffee break

**11:30 - 13:30 SESSION: Production of food, technical and fuel alcohol. Projects and case studies: news, startup issues, feasibility studies.**

*Technology for ethanol production. Differences in production: food vs fuel alcohol. Denaturation. Construction and modernization of distilleries.*

**Alla DANILOVTSEVA, Deputy Research General Director, Rosspirtprom**

Fuel bioethanol as an upcoming reality. Amendments to the Federal Law "On State Regulation of Production and Turnover of Ethyl Alcohol ..."

**Nina NECHIPORCHUK, Head of Department of Indirect Taxes, Tax and Customs Tariff Policy Department, Ministry of Finance of the Russian Federation**

Alcohol-containing fuels and methods of calculating excise taxes.

**Alessandro GUZZONE, Vogelbusch, Austria**

Thermal integration measures for downstream units in plants for the production of fuel ethanol.

**Dmitry ARSENIYEV, General Director, Nikita DUDKIN, Project Manager, NPK Ecologia**

Bioethanol fuel production plant: concept, budget, construction.

**Maria NACHETOVA, PhD, Sales and Technical Consultant, Lallemand Biofuels & Distilled Spirits**

Bioethanol: key aspects of effective production.

13:30 - 14:30 Lunch

**14:30 - 16:00 Biomass conversion: thermochemical, biochemical, hybrid. Using solid waste and other organic waste to generate electricity, produce heat and chemical products. Production of biogas from solid waste and agricultural waste. Biodiesel.**

**Andrey GRACHEV, Doctor of Technical Sciences, General Director, ELP Group**

Mobile unit for thermochemical conversion of biomass and other organic waste to produce liquid fuel and charcoal.

**Vladimir MARKOV, Doctor of Technical Sciences, Professor, Head of the Department "Piston Engines", Bauman Moscow State Technical University (BMSTU)**

Using ethanol as a fuel for diesel engines.

**Alexander GUSAROV, General Director, GazEcos.ru**

Perspective directions for bioenergy development in the Russian Federation.

**Denis TARANENKO, General Director, BIOALTEN**

Biodiesel fuel in Russia: feedstock, technology, economics and prospects. Profitable production of biodiesel from animal fats and other feedstock.

16:00 - 16:30 Coffee Break

**16:30 - 18:00 SESSION: Biomass for electricity generation and production of heat. Pellets, briquettes and woodchips.**

*Production of electrical and heat energy on biomass base. Pellets, briquettes and heating oil. Economics of production and use. Economics of the production of electricity and heat from biomass. Feedstocks: collection and delivery. Where should the plants be located? How much should biomass cost? Initiatives of the regions on bio-resources mapping.*

**Olga RAKITOVA, PhD, Executive Director, National Bioenergy Union (NBS)**

Market of pellets and briquettes. How to organize an effective supply of biofuels. Case studies in bioenergy development in different Russian regions.

**Sergey PEREDERIY, Eko Holz-Pellethandel (Germany)**

Pellet market in Germany and other European countries. Prospects for Russian manufacturers.

**Elena TVERITINOVA, Deputy Head of the Standards and Quality Department, FSC Russia**

FSC-certification of biofuel to obtain the SBP certificate in order to meet the requirements of some countries for purchasing imported pellets.

**Alexander SHEVCHENKO, Senior Engineer, Joint Institute for High Temperatures of Russian Academy of Sciences**

Energy-efficient installation for low-temperature pyrolysis (torrefication) of granulated biomass.

**Alexander PEKARETS, Director, Shelekhovsky Wood Processing Plant**

Technology of charcoal briquette production from wood waste.

**18:00 – 18:30 Degustation "Spirits of the world" sponsored by Lallemand Biofuels & Distilled Spirits**

Join us to taste alcoholic beverages from all over the world and to enjoy nuances of these wonderful drinks.

18:30 Cocktail Reception

**Day 2, Thursday, April 19, 2018**

## **Forum «Petrochemistry: in search of green technologies»**

8:30 Registration and welcome coffee

**9:30 - 11:00 Petrochemistry for non-chemists and agriculture for non-specialists: current situation in Russia.**

**Andrey GRACHEV, Head of Corporate R&D, SIBUR**

Petrochemical industry and SIBUR business: perspectives on coming years. Petrochemistry for non-specialists: principles, volumes, logistics. What petrochemicals expect from raw material suppliers.

**Svetlana KUZNETSOVA, Investment Director, RusAgro**

Rusagro production of agricultural products - facilities location and raw materials logistics. The issue of agricultural products overproduction. Interest in processing wheat and sugar beet into biofuels and non-food products. Criteria for such projects investing.

**Alina OSMAKOVA, Executive Director, Association "Technological Platform BioTech2030"**

Stimulating the creation of the biopolymers market in Russia. Background and possible prospects.

**Nina ADAMOVA, Analyst, Center for Economic Forecasting, Gazprombank**

Estimation of the petrochemicals volume, which can be produced from renewable raw materials in Russia.

11:00 - 11:30 Coffee Break



**11:30 - 13:30 The economy of bioproducts production in Russia and in the world.  
View from agricultural sector.**

*The main costs, risks and pitfalls of creating highly integrated products with high added value, starting with grain and / or sugar beet. How much does it cost to build a factory, and where to build it?*

**Alex ABLAEV, PhD, President, Russian Biofuels Association**

Industrial biotechnology for non-specialists: principles, scales and prospects. The economy of bioproducts production in Russia and in the world: view from agricultural sector.

**Natalia CHERNYSHEVA, PhD in Economic Sciences, Head of Analytical Department, Analytical Center for the Agro-Industrial Complex, Ministry of Agriculture of the Russian Federation**

Bio-raw materials in Russia: wheat, sugar beet, or straw and wood? Resources of economically accessible renewable feedstock.

**Dmitry ARSENIYEV, General Director, NPK Ecology**

Engineering of complex projects in chemistry and petrochemistry. Case studies for implementing real project which cost is 30 billion rubles.

**Tigran YUZBASHEV, PhD in Biology, Kurchatov Institute - GosNII Genetika**

Biotechnology for chemistry and petrochemistry: success and restraints.

**Dmitry SHAPOVALOV, expert, NEO Center**

System principles of project of deep processing of wheat with a technological chains of production of chemical products as a guarantee for successful financing.

13:30 - 14:30 Lunch

**14:30 - 16:00 What does the chemical industry need?**

*What products of biotechnology can be in demand? What are the most promising and where is the market going?*

**Mark TSODIKOV, Doctor of Chemical Sciences, Head of the Laboratory, A.V.Topchiev Institute of Petrochemical Synthesis**

Perspective catalytic reactions of conversion of bio-oxygenates into fuel components and important monomers.

**Roman GULYAEV, Chief Expert, Department of Scientific Expertise, Directorate for New Products and Technologies, NIOST - SIBUR Scientific Center**

Bioplastics in the Russian Federation. Why are bioplastics not manufactured in Russia? What issues need to be addressed to create a need for bioplastics? Who is the potential consumer, what is the size of the potential market and the prices of sales?

**Vadim SAMOYLOV, A.V. Topchiev Institute of Petrochemical Synthesis**

Bioglycerin: perspective directions for valorization with obtaining of petrochemical products and components of motor fuels. World case studies of successful introduction of processes for obtaining valuable chemical products based on glycerin: bio-propylene glycol, bio-epichlorohydrin, glycerin-carbonate, etc.

16:00-16:30 Coffee-Break

**16:30 - 17:30 Monetization of biochemicals and bioproducts: lignin, products based on sugars from biomass and cellulose, market assessment, consumers.**

**Sergey TARAZANOV, PhD, Laboratory for the development of perspective and special gasolines, Research Institute of Oil Refining**

A review of furfural derivatives as fuel additives and petrochemical feedstock.

**Valentin TRETAKOV, Professor, Doctor of Chemical Sciences, Head of the Department of Petrochemical Synthesis and Artificial Liquid Fuels, Moscow Technological University**

Ethanol is a simple and renewable universal raw material for petrochemicals? Conversion of bioethanol into chemical products, motor gasoline and jet fuel.

**Damien GEOFFROY, Senior Project Manager, MAGUIN (France)**

New technologies and innovations for optimization and integration of alcohol production processes leading to a reduction in operating costs.

**Olga MASLOVA, Laboratory of Ecobiocatalysis, Moscow State University**

Biocatalytic synthesis of organic acids and plastics based on them.

**Petr FEFELOV, Director of the division "Petrochemical Technologies", ZAVKOM Engineering**

A new technology for the production of divinyl from ethanol, superior to existing technologies for the production of divinyl from pyrolysis products.



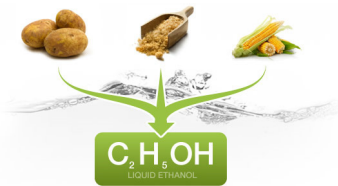
**Petrochemistry**  
in search of **green** feedstock

Международный Конгресс и выставка  
**"Биомасса: топливо и энергия - 2018"**  
Холидей Инн Лесная, Москва

**Konstantin LAVROV, PhD in biology, Senior Researcher, Laboratory of Molecular Biotechnology, Kurchatov Institute - GosNlligenetika**

Acrylic monomers: technologies of biocatalysis in petrochemistry. Evaluation of the applicability of new forms of monomers to improve the efficiency of oil production and water treatment.

18:00 End of Forum



### **April 20, 2018, Friday**

9:00 - 18:00 **Technical workshop "SpirtExpert": alcohol production technology and ensuring the smooth running of alcohol production**

Location: Holiday Inn Lesnaya. To participate in the seminar, you are required to register.

Workshop "SpirtExpert" is intended for distilleries technical specialists responsible for the production process and high quality of drinking alcohol. Participation in the workshop is recommended for:

- Technical Director
- Chief Engineer
- Chief Technologist
- The technologist of alcohol production;
- Head of the main plant laboratory

### **Workshop Program**

9:00 – 10:30 *Alcohol market: food, technical, fuel. Sale and logistics of end products. Diagnostics and improvement of the enterprise. Modern equipment, technologies, innovations. Process optimization. Selection and justification of modern production schemes for ethyl alcohol from grain and sugar raw materials.*

#### **Alex ABLAEV, PhD, President, Russian Biofuels Association**

World market and trends of alcohol production and use.

#### **Alla DANILOVTSEVA, Deputy Research General Director, Rosspirtprom**

Fuel bioethanol as an upcoming reality. Amendments to the Federal Law "On State Regulation of Production and Turnover of Ethyl Alcohol ..."

#### **Sergey MAKAROV, PhD, Razumovsky Moscow State University of technologies and management**

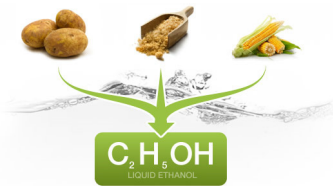
Manufacture of national drinks on the basis of grain distillates. Whiskey and various grain distillates (moonshine).

#### **Vadim BUNIN, Senior Engineer, NPK Ecology**

Diagnostics of the enterprise. Modern equipment, technologies, innovations in the modernization of the distillery. Dry and wet ways of producing alcohol. Features of production from different raw materials: wheat, corn, rye, sugar beet, molasses.

Break





11:00-12:30 *Ways to increase the ferment activity of alcohol yeast. Maximization of the output. Ways to intensify the process of fermentation. Control of bacterial contamination. Process control. Analytical methods and standards.*

**LEDENEV Vladimir Pavlovich, PhD, Head of Laboratory of alcohol production technology, Research Institute of Food Biotechnology**

Prospects and technical aspects of the production and use of ethyl alcohol for non-food purposes in Russia. Reproduction of distilleries for the production of ethyl acetate.

**NACHETOVA Maria, PhD, Sales and Technical Consultant, Lallemand Biofuels & Distilled Spirits**

Stress factors affecting the yeast activity when producing ethyl alcohol. Special yeast and fertilizing.

**KADIEVA Albina, PhD, Technical Specialist, Novozymes**

Influence of a complex of enzymes on qualitative parameters of mating.

**TURSHATOV Mikhail Vladimirovich, PhD, Head of Laboratory of alcohol production technology, Research Institute of Food Biotechnology**

Technological aspects of processing starch-containing secondary raw materials for ethyl alcohol for fuel, chemical and food applications.

Lunch

13:30-15:00 *Dry and wet ways of producing alcohol. Features of production from different raw materials: wheat, corn, rye, sugar beet, molasses. Efficiency of water use. Modern equipment used for industrial water treatment. Quality control, laboratory management. Ways to improve the quality of alcohol produced. Improving the taste of alcohol. Bard and other additional products. Requirements for processing equipment for processing (disposal) of bard.*

**Maxim SIDYAKIN, Process Technology Division, Alfa Laval Potok OJSC**

Disposal of bards of alcohol production.

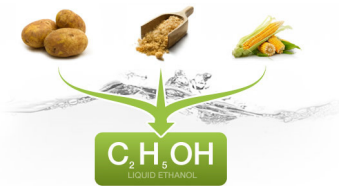
**Damien GEOFFROY, Senior Project Manager, Maguin (France)**

New technologies and innovations for optimization and integration of alcohol production processes leading to operating costs reduction.

**Mikhail AKSENOV, Flottweg Moscow**

Optimization of technology for processing alcohol waste products.

Break



15:30-17:00 *Compliance with environmental regulations. Technologies of abatement of emissions and waste. Management of process safety.*

**Ildar GILYAZETDINOV, Director, High Technologies**

Designing and building the right distillation shop for ethanol. Calculation of technological schemes and automation of technological processes. Negative experience of using Chinese technologies.

**Ekaterina MAKSIMOVA, PhD, Director, NanoBioActiv.**

Intensification of biotechnological productions of target products for food and feed industries on the basis of composite biostimulants.

**Alex ABLAEV, PhD, President, Russian Biofuels Association**

Efficiency and profitability of distilleries depending on capacity. Prospects for the production of alcohol from straw and sawdust.

17:30 End of Workshop.