



Federal Agency for Science and Innovation (FASI) and Central Scientific Research Automobile and Engine Institute "NAMI" in the framework of the Federal Program "R&D in priority areas of Russia's science and technologies complex development for 2007-2012" organize an international conference **"Power and 2<sup>nd</sup> generation biofuels production from non-food biomass"**. The Conference will be held on **21-22 October 2009 in Moscow** within the 7-th International Automobile Scientific Forum (IASF 2009).

**Organizers:**



Ministry of Education and Science of the Russian Federation



Central Scientific Research Automobile and Engine Institute - "NAMI"

**Supported by:**



Ministry of Education and Science of the Russian Federation



Ministry of Industry and Trade of the Russian Federation



The Government of Moscow



Association of Automobile Engineers of Russia



Bioliquids-CHP

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## Information and media support:



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AUTOTRUCK  
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## Introduction:

One of the global challenges today is to meet the ever growing energy resource demand and reduce the negative environmental impacts at the same time. Use of biomass for energy purposes shows great promise in resolving this challenge: it allows to replace fossils for renewable energy resources and significantly reduce greenhouse gas emissions. Moreover, in this case a raw materials supply base for power generation and biofuels production could be considerably diversified through more intensive use of locally available and abundant biomass resources such as agricultural waste, municipal solid waste, forestry residues, timber industry waste and others.

Bioenergy sector is being actively growing worldwide. With a variety of mature technologies available, it is able to produce a wider range of commercial products, including different kinds of biofuels – from pure methane gas to gasoline and diesel fuels. In addition, it provides an opportunity to diversify agricultural production, develop agro-industrial sector and improve quality of life of the rural communities. But the technologies used so far to produce biofuels and generate power from biomass are rather simple. Some concerns are voiced about land being increasingly devoted to fuel crops and diverted from other purposes, such as food and feed production. The need to increase biofuels availability and expand production from renewable energy sources to meet growing demand, mitigate conflict between land use for food\feed and energy crops, and diminish production costs is triggering a shift towards new and more sophisticated technologies, focusing on use of non-food biomass.

Broad international collaboration and coordination of efforts of the research community, industry and legislators is essential to overcome the existing technological and organizational barriers on the way to viable bioenergy sector.

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### **Conference objectives:**

1. To inform about the current status of research and new developments in the field of power and second-generation biofuels production from non-food biomass.
2. To analyze the latest experiences in launching projects in power and biofuels production from non-food biomass both in Russia and abroad.
3. To identify problems and barriers on the way towards production of power and second-generation biofuels, to find ways of solving them.
4. To facilitate development and introduction of the new technologies for power and second-generation biofuels production.
5. To attract talented young people to the development of the technologies for power and second-generation biofuels production from non-food biomass.

### **Topics for discussion:**

A wide range of issues related to the development of technologies for production of power and second-generation biofuels from non-food biomass is put forward for discussion:

1. **Raw material sources:** collection, accumulation, processing, transportation and supply of biomass from timber industry and agriculture.
2. **R&D in bioenergy technologies:** biomass combustion, gasification, pyrolysis, fermentation, extraction and use of biogas from municipal solid waste sites, production of liquid and gaseous biofuels (biodiesel, bioethanol, biobutanol, methanol, hydrogen).
3. **“Biomass for power production” demonstration and commercial projects.**
4. **Legislation and development strategy:** legislative framework and financial support, nation-wide and regional strategies for bioenergy sector development; standards harmonization .
5. **Economic and environmental aspects of bioenergy technologies introduction.**

### **Language**

The working languages of the Conference are English and Russian. Abstracts and papers are accepted in both languages. Simultaneous translation of oral presentations will be provided.

### **Publication**

The abstracts and full versions of the accepted papers will be published.

### **Registration**

Participation is free of charge. For getting registered please return the completed registration form at the e-mail address: [admin@nami.ru](mailto:admin@nami.ru). On-line registration is available at the web-site: [www.nami.ru](http://www.nami.ru). Abstracts (in MS-Word format) must be submitted by e-mail to the Organizing Committee at the e-mail address: [admin@nami.ru](mailto:admin@nami.ru) **before 10 October 2009.**

### **Abstract requirements**

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Abstracts (in MS-Word format) should be submitted at the e-mail address: **admin@nami.ru**. **The deadline is 10th October 2009.**

**Template:**

- Title of the paper
- first name, middle name and family name of the authors, titles (e.g: Peter M. Ivanov, professor)
- name of the company (organization);
- city, country;
- e-mail;
  
- the text

The Russian text (with a title, tables, diagrams, etc.) should not exceed 300 words (about 1200 symbols, including spaces). Typeface – Times New Roman 12 pt at a single line interval. Bold face should be used for the title.

**Contact information:**



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