

*Gennady Zaikov, Larisa Madyuskina and Marina Artsis*

## 16<sup>TH</sup> INTERNATIONAL CONFERENCE FOR RENEWABLE RESOURCES AND PLANT BIOTECHNOLOGY (NAROSSA® 2010)

*N.M.Emanuel Institute of Biochemical Physics, Russian Academy of Sciences  
4, Kosygin str., 119334 Moscow, Russia  
chembio@sky.chph.ras.ru*

© Zaikov G., Madyuskina L., Artsis M., 2010

NAROSSA® 2010 conference was held in Maritim Hotel (Magdeburg, Germany) in the period of June 7-8, 2010. The organizer of the conference was the Pilot Pflanzenöltechnologie Magdeburg e. V. (PPM) association and the sponsor of the conference was OHMI Consulting GmbH.

Prof. Dr. Melvyn F. Askew (Census Bio, Wolverhampton, United Kingdom), Prof. Dr. Grete Bach (ifn Forschungs- und Technologiezentrum GmbH, Elsteraue/OT Tröglitz, Germany), Dr. Ute Bauermeister (Gesellschaft für Nachhaltige Stoffnutzung mbH, Halle/Saale, Germany), Dr. Peter Bloß (Kunststoff-Zentrum in Leipzig gGmbH, Leipzig, Germany), Dieter Bockey (UFOP e.V., Berlin, Germany), Dr. Susanne Brandt (Landesbauernverband Sachsen-Anhalt e.V., Magdeburg, Germany), Thorsten Breitschuh (NAROSSA e.V., Magdeburg, Germany), Dr. Waldemar Buchwald (Institute for Natural Fibres and Medicinal Plants, Poznan, Poland), Dr. Matthias Gohla (Fraunhofer IFF - Institut für Fabrikbetrieb und -automatisierung, Magdeburg, Germany), Torsten Graf (Thüringer Landesanstalt für Landwirtschaft, Dornburg, Germany), PhD Paul P. Kolodziejczyk (Biolink Consultancy, New Denver, Canada), Prof. Gotthard Kunze (Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung IPK, Gatersleben, Germany), Prof. Dr. Lothar Mörl (Otto-von-Guericke-Universität, Magdeburg, Germany), Prof. Dr. Ingo Schellenberg (Hochschule Anhalt (FH), Kompetenzzentrum Life Sciences, Bernburg, Germany), Dr. Heike Schimpf (Landesanstalt für Landwirtschaft, Forsten und Gartenbau / KoNaRo, Bernburg, Germany), Prof. Grzegorz Spychalski (Institute for Natural Fibres and Medicinal Plants, Poznan, Poland), Dr. Ralph Thomann (Institut für Getreideverarbeitung GmbH, Bergholz-Rehrbrücke, Germany), Dr. Maria Wladyka-Przybylak (Institute for Natural Fibres and Medicinal Plants, Poznan, Poland), Prof. Dr. Gennady E. Zaikov (N. M. Emanuel Institute of Biochemical Physics, Moscow, Russia) were members of the Scientific Committee of this conference.

The program of the conference included following main topics:

1. Plant Breeding for non-food Application
  - Biotechnology
  - In vitro culture
  - Smart breeding
2. Renewable Resources for Material Applications
  - Biobased composites (Natural fibres, Nano particles etc.)
  - Biobased polymers
  - Biobased additives
3. Processing, Characterisation and Application of Secondary Plant Metabolites
  - Biomass conversion technologies
  - Biorefineries
  - Cosmetics and pharmaceuticals
4. Biomass and Efficient Energy Generation
  - Energy crops and organic residues
  - Thermal, thermochemical and biochemical conversion technologies
  - Gas cleaning and product upgrading
5. Sustainable Development in Environment, Economy and Sociology
  - Acceptance
  - Sustainability in production and logistics
  - Regional material, nutrient and energetic cycles

About 100 participants from 27 research centers from Germany, France, Russia, Poland, Switzerland, Czech Republic, Guinea, Indonesia took part in this conference.

Scientific program of the conference included 3 plenary lectures and 33 oral presentations which were divided into two sessions (18 presentations in the first session and 15 – in the second one).

The topic of the first plenary lecture was “Greeting of the patron” (H. O. Aeikens, Minister for Agriculture and the Environment of Saxony-Anhalt, Magdeburg, Germany). The second plenary lecture was about feedstocks and (bio) technologies for biorefineries (J. Venus, Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V., Germany). Socially sustainable development of the

rural areas was discussed in the third lecture (G. Spsychalski, Director of the Institute of Natural Fibres and Medicinal Plants, Poland).

Poster session included 17 presentations about some aspects of plant biotechnology and renewable resources. Particularly there was the poster of Russian scientists: “Mechanism of stable radical generation in lignin under

the action of nitrogen dioxide” (E. Ya. Davydov, I. S. Gaponova, S. M. Lomakin, G. B. Pariiskii, T. V. Pokholok, Gennady E. Zaikov, N.M. Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Moscow, Russia).

The problems which were discussed during this conference are very important for pure as well as for practical application.