

## CHRONICLE



## XXII UKRAINIAN ORGANIC CHEMISTRY CONFERENCE

The Twenty-Second Ukrainian Organic Chemistry Conference took place at the Uzhgorod National University on September 20-24, 2010. This conference was organized by the Institute of Organic Chemistry of the National Academy of Science of Ukraine, Uzhgorod National University, the Scientific Council for Organic Chemistry of the Division of Chemistry of the National Academy of Sciences of Ukraine, and the Ukrainian Chemical Society.

The conference was planned to encompass work from throughout all Ukraine but evolved into an international event with leading scientists from Ukraine, Russia, Belarus, Poland, Latvia, Germany, France, and Hungary.

The scientific organization of the conference was provided by the Institute of Organic Chemistry of the National Academy of Sciences of Ukraine and Uzhgorod National University. Academician of the National Academy of Sciences of Ukraine M. O. Lozinskii, Professor Yu. G. Shermolovich, and Professor V. E. Pashinnik from the Institute of Organic Chemistry served as the chairman, co-chairman, and vice-chairman of the Organizing committee, respectively. Professor V. E. Lendel from Uzhgorod State University also served as co-chairman of the Organizing committee. Young scientists, graduate students, and undergraduates of the Faculty of Organic Chemistry at Uzhgorod State University undertook the extensive work of registering the participants and organizing the conference sessions.

A total of 249 individuals participated in the conference. There were 11 plenary lectures, 67 oral reports, and 302 scientific posters.

The subject matter of the conference encompassed virtually all areas of organic chemistry. We should note that the synthesis, properties, and application of heterocyclic compounds were in one way or another treated in most of the plenary lectures, oral reports, and scientific posters. The broad scope and high scientific level of the conference were fully reflected in the plenary lectures and oral reports given by outstanding organic chemists. A total of 10 academicians and corresponding members of national academies of science, 63 Professors and Doctors of Science, and 91 docents and Science Candidates took part in the conference.

The five-day session of plenary lectures was opened by Academician of the National Academy of Sciences of Ukraine V. P. Kukhar, who analyzed strategic directions for the synthesis of aminophosphonic acids over the past five years and outlined the major directions in the development of this area of chemistry.

Professor A. A. Ishchenko analyzed the electronic structure as well as the photophysical and photochemical properties of polymethine dyes, giving rise to the broad scope of their application, and examined

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pathways for the design of dyes for new light-sensitive materials and the nanoassembly of highly-efficient light energy transformers derived from polymethine dyes.

The plenary report by Professor V. A. Kovtunenکو on the application of the vinylogy principle to the reactions of  $\gamma$ -halo ketones was devoted to vinylogy as an effect in organic chemistry.

The well-known Polish chemist, Professor P. Kafarski gave a report on the chemistry of organophosphonates, in which he examined the application of aminomethylbisphosphonates, analyzed the most promising methods for the synthesis of these derivatives, and discussed mechanisms of their transformations.

Academician V. A. Khripach of the National Academy of Sciences of Belarus presented work on the synthesis of natural steroids and their analogs, new selective methods and reagents stressing approaches to the application of synthetic analogs of natural steroids.

The leading Polish chemist, Professor J. Lipkowski examined major achievements in the experimental crystallography of supramolecules.

Professor V. P. Khilya, Corresponding Member of the National Academy of Sciences of Ukraine, discussed methods for the modification of neoflavonoid heterocyclic fragments and the practical application of modified flavonoids.

The well-known German chemist, Professor R. Mews gave a lecture devoted in memory of the late organofluorine chemist, Professor Lev M. Yagupolskii, and analyzed major achievements of fluorine-containing organic nitrogen and sulfur compounds.

Three plenary lectures were devoted to catalysis in organic chemistry. Academician V. G. Koshechko of the National Academy of Sciences of Ukraine discussed electrochemical and homogeneous catalytic functionalization of organic substrates by "small molecules" and reviewed major directions in organic electrochemistry. He emphasized the importance of elucidating the role of key intermediate species in such reactions and the effect of various factors on their direction as well as the composition and yield of the final products.

Academician G. L. Kamalov of the National Academy of Sciences of Ukraine treated aspects of catalytic oxidation in the presence of organic complexes in his lecture on the oxidation of compounds with an activated CH bond by atmospheric oxygen and hydrogen peroxide in the presence of polynuclear 3d-metal complexes.

Professor Nikolai I. Korotkikh gave a lecture on carbene catalysis in organic chemistry and analyzed methods for obtaining carbene catalysts and showed the broad scope of reactions catalyzed both by individual carbenes and carbene complexes of transition metals.

The oral reports were grouped into four sections: 1) New synthetic methods and reagents in organic and heterorganic chemistry, 2) Heterorganic chemistry, 3) Methods for the study of the structure of organic compounds and organic reaction mechanisms, and 4) Organic compounds in industry, medicine, and agriculture.

The conference hosted fruitful meetings between representatives of the leading organic chemistry journals *Khimiya Geterotsiklicheskikh Soedinenii* [Chemistry of Heterocyclic Compounds] and *Zhurnal Organicheskoi i Farmatsevticheskoi Khimii* [Journal of Organic and Pharmaceutical Chemistry] and contributing authors. These journals as well as *Ukrainskii Khimicheskii Zhurnal* [Ukrainian Chemical Journal] were the media sponsors of the conference.

The sponsors were helpful in the success of the conference. We should note the general sponsors, Uzhgorod Cognac Factory, Zakarpatsadvinprom [Transcaucasian Vineyard and Winery Industry], as well as conference sponsors Farmak (Kiev), Borshagov Chemical and Pharmaceutical Factory (Kiev), Eximed (Kiev), Enamine (Kiev), and Khimmed (Kiev). Media and financial support was provided by Donau-Lab, Kiev, which specializes in the distribution of laboratory and industrial chemical equipment.

A motion was adopted at the concluding session of the conference to hold the next regularly-scheduled XXIII Ukrainian Organic Chemistry Conference in 2013 in Dnepropetrovsk.

**Mikhail Slivka**