

Olena Shyshchak

VIIIth INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE "ADVANCE IN PETROLEUM AND GAS INDUSTRY AND PETROCHEMISTRY" (APGIP-8)

*Lviv Polytechnic National University
12, Bandera St., 79013 Lviv, Ukraine*

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The VIIIth International Conference "Advance in Petroleum and Gas Industry and Petrochemistry" (APGIP-8) was held on May 16-21, 2016 in Lviv Polytechnic National University (Ukraine). It was organized by Ministry of Education and Science of Ukraine, Lviv Polytechnic National University (Department of Chemistry and Technology of Petroleum, the Head of the Department – Prof. Michael Bratychak) and Ukrainian Oil and Gas Academy.

The scope of this Conference embraced the state and future trends in petroleum processing and petroleum products use, possibility of technological equipment improvement, especially for Ukrainian refineries and gas plants, assortment and quality of existing products.

The Conference's program included 5 main topics:

- Oil and Gas Processing
- Petrochemistry and Coal Chemistry
- Chemmotology of Lubricants and Technical

Liquids

- Organic Synthesis Products, Polymeric Materials and Composites
- Ecological Aspects of Refineries

About 130 participants from 8 countries (Ukraine, USA, Poland, Georgia, Azerbaijan, Kazakhstan, Armenia and Israel) took part in the meeting. Among the participants there were: Professors – 41; DSc. – 38; post-graduated students – 34.

On May 17, after the opening ceremony headed by Prof. Yuri Bobalo, the Rector of Lviv Polytechnic National University, 8 plenary lectures were presented:

– Prof. Michael Bratychak, (*Lviv Polytechnic National University, Lviv, Ukraine*) Products of oil fractions pyrolysis as raw materials for the production of organic synthesis products.

– L. Kossowicz, Prof. J. Grzechowiak-Milewska (*Oil and Gas Institute – National Research Institute, Krakow, Poland*) Lifetime of refinery processes by Prof. Pilat in the XXI century.

– Prof. H. Jędrzejowska-Tyczkowska, Małgorzata Słota-Valim, Arkadiusz Drozd (*Oil and Gas Institute – National Research Institute, Krakow, Poland*) Shale gas exploration as an important reason for development and integration of seismic, microseismic and geological methods.

– Prof. Sergii Boichenko (*National Aviation University, Kyiv, Ukraine*) Synergy, place and role of chemmotology in resolving of priorities issues of scientific and technical progress.

– Prof. O. Figovsky, A. Leykin, L. Shapovalov (*Hybrid Coating Technologies, Inc. Daly City, USA; Polymate Ltd., Migdal haEmek, Israel*) Nonisocyanate Polyurethane: synthesis, structure and application.

– Prof. V. Zazhigalov (*Institute for Sorption and Problems of Endoecology of NAS of Ukraine*) Mechanochemistry in techNology of the catalysts for organic products synthesis.

– Prof. V. Tokarev, O. Shevchuk, H. Ilchuk (*Lviv Polytechnic National University, Lviv, Ukraine*) Hydrogel networks based on functional oligomers and polymers: synthesis, properties, application for obtaining the nanocomposite materials.

– Prof. A. Zaichenko, N. Mitina, O. Miagkota, A. Voloshinovskii, V. Vistovskiy (*Lviv Polytechnic National University, Lviv, Ukraine*) Functional physically detectable nanoassemblies, nanoparticles and nanolayered surfaces.

Two sessions were included in the scientific program: "Oil and Gas Processing" and "Petrochemistry" (53 oral reports and 54 posters).

Problems of oil bitumen modification (Prof. O. Grynshyn, Lviv Polytechnic National University, Ukraine); bitumen production and application (Prof. S. Pyshyev, Lviv Polytechnic National University, Ukraine); new lubricants development (Prof. G. Pop, Institute of Bioorganic Chemistry and Petrochemistry,

Ukraine); anticorrosive protection (Dr. P. Topilnytskyi, Lviv Polytechnic National University, Ukraine); inhibitors of hydrates formation (A. Pushak, JSC PALTECH, Kyiv, Ukraine); influence of coal tar pitch additives on carbonization of caking coal (Prof. V. Zubkova, University in Kielce, Poland); development of carbon materials from coal (Prof. T. Shendrik, Institute of Surface Chemistry, Kyiv, Ukraine); investigations of demulsifiers of different nature (Yu. Golych, JSC "Ukratnafta", Kremenchuk, Ukraine); problems of mining complex concerning coal supply (Prof. A. Starovoi (Ukrainian scientific-industrial association "Ukrkoks", Dnipropetrovsk, Ukraine); formation of oil mixtures for processing (Dr. O. Tertyshna, Dnipropetrovsk State Chemical-Technological University, Ukraine); effect of coal oxidation on its coking ability (Dr. D. Miroschnichenko, Ukrainian State Scientific-Research Institute of Coal, Ukraine); usage of 2-butanol as a high-octane gasoline component (I. Danchuk, JSC, "Lynik", Dnipropetrovsk, Ukraine); effect of activation parameters on methane storage on activated carbon (H. Faltynowicz, Wroclaw University of Technology, Poland) and others were discussed during the first session.

The participants of the second session "Petrochemistry" discussed routes of double-step radical polymerization (Prof. V. Syromyatnikov, Kiev Taras Shevchenko National University, Ukraine); effect of modified nanosilica on the structure and properties of PPO/PA 11 blends (Prof. R. Jeziorska (Industrial Chemistry Research Institute, Warsaw, Poland); progress in modification of bitumen by polymers (Prof. H. Janik (Gdansk University of Technology, Poland); polymer-based composites for electronic industry applications (Prof. W. Brostow, University of North Texas, USA); composites including carbon nanostructures (Prof. M. Plonska-Brzezinska, University of Biaystok, Poland); impact of fullerenes and carbon nanotubes on the aerobic oxidation of model oil hydrocarbons (Prof. E. Zeynalov, Institute of Catalysis and Inorganic Chemistry, Baku, Azerbaijan); organosilicon polymers with unsaturated

fragment in the side chain (Prof. O. Mukbaniani, Tbilisi State University, Georgia); methods of nanofibers fabrication and application (Prof. S. Minko, University of Georgia, USA); the problems of sustainability and environmental protection at development of polyurethanes as specialty products (Prof. J. Haponiuk, Gdansk University of Technology, Poland); features of polyvalent metals sorption by intergel systems (Prof. T. Jumadilov, Institute of Chemical Sciences named after Bekturov, Almaty, Kazakhstan); syntheses and reactions of some quinonediimines (Prof. N. Durgaryan (Yerevan State University, Armenia); metal-containing hydrogel and thermoplastic composites (Prof. O. Suberlyak, Lviv Polytechnic National University, Ukraine); effect of mineral filler on obtaining and properties of osteoplastic porous composites (Prof. V. Skorokhoda, Lviv Polytechnic National University, Ukraine) and other vital problems.

The interesting report about SciFinder – a division of the American Chemical Society – was made by Dr. T. Khristova (CAS, USA).

Representatives of Ukrainian and Polish industrial enterprises and private firms also took part in the conference's work: JSC "Kherson refinery" (Kherson, Ukraine), joint enterprise "Yukoil" (Zaporizha, Ukraine), JSC "Palyvno-Alternatyvni Technologii" (Kyiv, Ukraine), Lysychansk oil investment company (Lysychansk, Ukraine), PHU Ave (Katowice, Poland); Lotos Biopaliwa Sp.z.o.o. (Czechowice-Dziedzice, Poland). They represented the results of new technologies implementation, achievements in the production of new products and routes of cooperation between scientific-research institutes and the industry.

Two poster sessions included about 54 posters which discussed some particular tasks in the field of petroleum and gas refining as well as petrochemistry, chemotology, coal industry and ecology.

The Prize Committee chaired by Prof. Witold Brostow (University of North Texas, USA) has awarded Young Investigator Prizes to the young scientists.

The information about the Conference is available on site agip.org.ua.