

## IX<sup>th</sup> INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE “ADVANCE IN PETROLEUM AND GAS INDUSTRY AND PETROCHEMISTRY” (APGIP-9)

*Oleg Grynyshyn<sup>1</sup>*

The IX<sup>th</sup> International Conference “Advance in Petroleum and Gas Industry and Petrochemistry” (APGIP-9) was held on May 14-18, 2018 in Lviv Polytechnic National University (Ukraine).

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 6 main topics: Oil and Gas Processing; Petrochemistry and Coal Chemistry; Chemmotology of Lubricants and Technical Liquids; Organic Synthesis Products; Polymeric Materials and Composites and Ecological Aspects of Refineries. About 140 participants from 6 countries (Ukraine, USA, Poland, Georgia, Kazakhstan and Netherlands) took part in the meeting. Among the participants there were: Professors – 44; DSc. – 49; post-graduated students – 24.

On May 15, after the opening ceremony headed by Prof. Volodymyr Skorokhoda, the Director of Institute of Chemistry and Chemical Technology, Lviv Polytechnic National University, 7 plenary lectures were presented: Tomasz Sterzynski (Poznan University of Technology, Poznan, Poland). Structure-properties relationship in physically modified semi-crystalline polymers; Yuri Golych (PJSC “Ukratnafta”, Kremenchuk, Ukraine). PJSC “Ukratnafta” – stages of development and transition to the gas and diesel fuels extract in accordance with EURO 5 requirement; Helena Janik (Gdansk University of Technology, Gdansk, Poland). Polymer modified bitumen; Josef Haponiuk (Gdansk University of Technology, Gdansk, Poland). Good health products and polymer composites obtained with the use of natural origin micro- and nanofibers; Dariusz M. Bielinski (Lodz University of Technology, Lodz, Poland). Ceramizable polymer composites –

possibilities and challenges; Krzysztof Brzezinski (University of Bialystok, Bialystok, Poland). Metal-cation-based regulation of enzyme dynamics; Sergii Boichenko (National aviation university, Kyiv, Ukraine). Conceptual fundamentals of alternative motor fuels implementation: modern challenges, problems and perspectives.

Two sessions were included in the scientific program: “Oil and Gas Processing” and “Petrochemistry” (58 oral reports and 38 posters).

Problems of oil bitumen modification (Prof. S. Pyshyev, Lviv Polytechnic National University, Ukraine); dehydration of oil and anticorrosive protection (Dr. P. Topilnytsky, Lviv Polytechnic National University, Ukraine); inhibitors of hydrates formation (Dr. R. Kempinski, Oil and Gas Institute National Research Institute, Krakow, Poland); modern laboratory equipment (O. Zinchenko, PJSC “Ukratnafta”, Kremenchuk, Ukraine); catalytic afterburning of volatile pollutants from biomass combustion (Prof. M. Kulazynski, Wroclaw University of Science and Technology, Wroclaw, Poland) and many others were discussed during the first session.

The participants of the second session “Petrochemistry” discussed routes of spherical nanosilica based nanostructured polyolefins (Prof. R. Jeziorska, Industrial Chemistry Research Institute, Warsaw, Poland); polymer-based composites for electronic industry applications (Prof. W. Brostow, University of North Texas, USA); fluorine materials on the basis of renewable raw materials (Prof. O. Mukbaniani, Tbilisi State University, Georgia); features of polyvalent metals sorption by intergel systems (Prof. T. Jumadilov, Institute of Chemical Sciences named after Bekturov, Almaty, Kazakhstan); synthesis and application of functionalized polyolefins (Prof. L. Jasinska-Walc, Gdansk University of Technology, Gdansk, Poland), polyvinylpyrrolidone as a reacting modifier in polymer chemistry (Prof. O. Suberlyak, Lviv Polytechnic National University, Ukraine); effect of mineral filler on obtaining and properties of

<sup>1</sup> Lviv Polytechnic National University  
12 S. Bandery St., 79013 Lviv, Ukraine  
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*Oleg Grynyshyn*

osteoplastic porous composites (Prof. V. Skorokhoda, Lviv Polytechnic National University, Ukraine); functional oligomers based on phenol-formaldehyde resins (Prof. M. Bratychak, Lviv Polytechnic National University, Ukraine) and other vital problems.

Two poster sessions included about 38 posters which discussed some particular tasks in the field of

petroleum and gas refining as well as petrochemistry, chemmotology, coal industry and ecology.

The Prize Committee chaired by Prof. Witold Brostow (University of North Texas, USA) has awarded for the best oral and poster presentations.

The information about the Conference is available on site [apqip.org.ua](http://apqip.org.ua).