

## INTERNATIONAL CONFERENCE «CONSUMABLES FOR WELDING, SURFACING, COATING DEPOSITION AND 3D TECHNOLOGIES»

International Scientific and Technical Conference «Consumables for welding, surfacing, coating deposition and 3D technologies» was held in Kyiv at E.O. Paton Electric Welding Institute on June 4–5, 2019. It was organized by E.O. Paton Electric Welding Institute, International Associations «Welding» and «Electrode» and Society of Welders of Ukraine. Proceedings of the Conference were published to the beginning of Conference work in form of special issue of Paton Welding Journal, No.6, 2019.

Scientists, lecturers and engineer-technical specialists of SRI, higher education institutions, industrial and commercial enterprises, representatives of associations from a series of cities of Ukraine as well as foreign participants from Poland, Germany, France participated in the Conference, in total more than 60 people.

A list of organizations and companies, specialists of which participated in the Conference, included: E.O. Paton Electric Welding Institute, Paton PWE, TM.Weltek LLC, Sumy-Electrode LLC, Vitapolis LLC, NTUU «Igor Sikorsky Kyiv Polytechnic Institute», Dnipro University of Technology, Z. I. Nekrasov Iron and Steel Institute of the NAS of Ukraine, SE Ivchenko-Progress, PLAN-T LLC, Additive Laser Technologies of Ukraine LLC, Tekhnologii Vysokikh Energij LLC, Zirast-Dnepr LLC, Dniprovsk State Technical University, VANT LLC, Institute of Welding in Gliwice (Poland), Dr. Rosert RCT Company (Germany), Welding Alloys Group (France) and others.

Deputy Director of PWI Prof. I.V. Krivtsun made a welcoming speech at the Conference opening. He conveyed greetings to the Conference participants on behalf of Prof. B.E. Paton, in short words described the main tendencies on the world's market of welding consumables and wished successful and fruitful work to the Conference. In particular, the importance of meetings and



Discussion during presentation of A.A. Mazur



During the visit to Paton PWE

discussions between the specialists in the field of welding consumables, which assist to rise the efficiency of welding engineering, was underlined.

16 presentations on a series of relevant for welding engineering topics were made at the Conference during plenary session. Without giving detailed attention to each of them (as it was mentioned, the presentations were included in the issue of Paton Welding Journal, No.6, 2019), we would like to note only those, which sparked the largest interest and provoked lively discussions. Thus, presentation of A.A. Mazur (PWI) «State and perspectives of world's market of welding consumables» it was noted that welding in foreseeable perspective is the basic technology in many branches of industry and construction. Industrialized countries are characterized with sufficiently stable dynamics of development of welding engineering and welding market, which is determined by stable growth of consumption of structural materials and expansion of their mix as well as appearance on welding market of new advanced materials, technologies and equipment for welding and related processes.

R. Rosert (Germany) in presentation «Welding and submerged-arc surfacing of high-alloy steels with flux-cored wires» in details outlined on several examples of realized projects on manufacture of unique welding equipment. Outlined technologies of welding and surfacing today are effectively used for welding of all classes of high-alloy steels and alloys, for surfacing of cobalt-based alloys.

Y. Nagaj (Poland) in presentation «Issues of certification of welding consumables in Poland and EU countries» outlined on the algorithm of action of any company having a goal to enter the European market. He in details highlighted the steps of Poland on a way of economic development, which allowed it to become EU equal partner.

Large interest was provoked by presentation of A.A. Kononenko (Dnipro University of Technology) «Investigation of conditions of deep penetration in manufacture of samples of high-temperature alloy Inconel 718 by method of selective laser melting». This method (Selective Laser Melting) allows manufacturing complex-profile products on a computer model virtually of any metallic powders.

The exhibition of manufacturers of welding consumables, with participation of PWI, Paton PWE, Sumy-Electrode LLC, VITAPOLIS LLC, VELMA LLC, PLAN-T LLC was held during the Conference.

A series of bilateral negotiations directed on cooperation and further collaboration, and performance of joint projects took place during the Conference and Exhibition work.

In the second day of the Conference its participants visited Paton Pilot Plant of Welding Equipment.

Drs A.T. Zelnichenko, V.N. Lipodaev, PWI