The E. O. Paton Electric Welding Institute
Association of Enterprises «ELECTRODE»
International Association «WELDING»
Society of Welders' of Ukraine
Russian Welding Society

VIII International Conference
«WELDING CONSUMABLES»
PROGRAM OF THE CONFERENCE
( preliminary )

The E. O. Paton Electric Welding Institute of the NAS of Ukraine
16–18 June, 2014, Kiev, Ukraine

Kiev 2014
INTERNATIONAL PROGRAM COMMITTEE

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ORGANIZING COMMITTEE OF THE CONFERENCE

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PROGRAM OF THE CONFERENCE

Monday, June 16

09.00–17.00 Arrival, registration, payment of registration fee, registration of business trip authorities and accommodation of the conference participants
15.00–17.00 Meeting of members of «Electrode» Association
18.00–22.00 Conference Opening Reception

Tuesday, June 17

09.00–11.00 Plenary session
11.00–11.20 Coffee break
11.20–13.00 Plenary session
13.00–14.00 Lunch
14.00–15.40 Plenary session
15.40–16.00 Coffee break
16.00–17.40 Plenary session

Wednesday, June 18

09.00–11.00 Plenary session
11.00–11.20 Coffee break
11.20–13.00 Plenary session
13.00–14.00 Lunch
14.00–15.40 Plenary session
15.40–16.00 Coffee break
16.00–17.40 Plenary session
18.30–23.00 Informal dinner

Thursday, June 19

Departure of the conference participants
Tuesday, June 17
Opening of the Conference
Welcoming speech

Physical-chemical and metallurgical processes of arc welding and surfacing and methods of their investigation

Welding and related technologies for preserving of main pipeline integrity
Steklov O.I.
*Gubkin Russian State University of Oil and Gas, Moscow*

Investigation of crack formation susceptibility of austenite material using RVR-TEST procedure
*E. O. Paton Electric Welding Institute, Kiev*

Application of shielding gases in welding production (Review)
Paton. B. E., Rimsky S. T., Galinich V. I.
*E. O. Paton Electric Welding Institute, Kiev*

Effect of structural factors on complex of mechanical properties and crack resistance of welded joints of metals, alloys and composite materials
Markashova L. I., Poznyakov V. D., Berdnikova E. N., Gayvoronsky A. A., Alekseenko T. A.
*E. O. Paton Electric Welding Institute, Kiev*

Interaction of hydrogen with wrought metal
Paltsevich A. P., Sinyuk V. S., Ignatenko A. V.
*E. O. Paton Electric Welding Institute, Kiev*

Underwater welding and cutting in Russia
Kononenko V.Ya.
*Ecotehnologiya, Kiev*

Ukrainian market of welding consumables
Mazur A. A., Petruk V. S., Brovchenko N. S.
*E. O. Paton Electric Welding Institute, Kiev*

Regional aspects of export-import of Ukrainian welding consumables
Makovetskaya O. K., Mazur A. A., Petruk V. S., Pustovoyt S. V.
*E. O. Paton Electric Welding Institute, Kiev*
Consumables for mechanized methods of welding

Physical-metallurgical and welding-technological properties of gas-shielded flux-cored wires in welding of structural steels
Shlepakov V. N.
E. O. Paton Electric Welding Institute, Kiev

Mechanized welding of pipelines — methods providing increase of efficiency
Rosert R.
Drahtzug Stein, Germany

Role of welding flux in formation of weld metal in arc welding of low-alloy and high-strength steels
Golovko V. V.
E. O. Paton Electric Welding Institute, Kiev

Effect of thermal and physical characteristics of cores of flux-cored wires on their welding-technological properties
Kotelchuk A. S.
E. O. Paton Electric Welding Institute, Kiev

Surfacing consumables based on tungsten carbide
Zhudra A. P.
E. O. Paton Electric Welding Institute, Kiev

Flux-cored strips for wear-resistant hardfacing
Voronchuk A. P.
E. O. Paton Electric Welding Institute, Kiev

Effect of titanium and boron microalloying of weld metal on its mechanical properties in underwater welding
Maksimov S. Yu.
E. O. Paton Electric Welding Institute, Kiev

Self-shielding flux-cored wire for wet underwater welding of 12Kh18N10T steel
Kakhovskiy N. Yu.
E. O. Paton Electric Welding Institute, Kiev

Efficiency of application of new welding consumables for welding and surfacing of copper
Ilyushenko V. M., Anoshin V. A.
E. O. Paton Electric Welding Institute, Kiev

Estimation of possibility of application of 10GN1MA type flux-cored wire of «ESAB» company production in manufacture of equipment for nuclear power stations
Lifshits I. M.
«Izhorskie welding consumables» Ltd., Saint-Petersburg
Flux for electric-arc surfacing providing high-temperature separation of slag cover
Strelenko N. M.¹, Zhdanov L. A.¹, Goncharov I. A.²
¹NTUU «KPI», Kiev
²E. O. Paton Electric Welding Institute, Kiev

Flux-cored wires for surfacing of tools for hot working of metals and alloys
Kondratiev I. A., Ryabtsev I. A.
E. O. Paton Electric Welding Institute, Kiev

Discrete consumables for surfacing in current-carrying crystallizer
Kuskov Yu. M.
E. O. Paton Electric Welding Institute, Kiev

Critical defects of welding consumables by the example of copper-coated wire for MAG and arc welding of metallic studs
Turyk E.
Institute of Welding in Gliwice, Poland

Repair surfacing and hardfacing of parts of stamping equipment
Solomko E. A.¹, Lobanov A. I.¹, Orlov L. N.², Golyakevich A. A.², Khilko A. V.²
¹PJSC «Energomashspetstal», Kramatorsk
²«TM.Veltek» Ltd., Kiev

Selection of shielding gas for mechanized arc welding of dissimilar steels
Elagin V. P.
E. O. Paton Electric Welding Institute, Kiev

Effect of physical-chemical properties of disperse filler on quality of deposited metal in microplasma flux-cored surfacing of heat-resistant nickel alloys
Yushchenko K. A., Yarovitsyn A. V.
E. O. Paton Electric Welding Institute, Kiev

Novel consumables and technology of hard-facing of thermal coatings of «Kannametal Stellite GmbH» company
Pavlenko A.
Germany

Application of polymer couplants for wear-resistant coatings with ceramic structure
Manulik A. F.
«Owens-Illinois» Company, USA

Development of high-vanadium alloy for plasma-power surfacing of knives for cutting of non-metallic materials
Pereplechikov E. F.
E. O. Paton Electric Welding Institute, Kiev
New wear-resistant consumables for hardening of gas turbine blades
Kostin A. M.
*Pryazovskyi State Technical University, Mariupol*

**Consumables for manual arc welding**

*Electrodes for welding of dissimilar martensite-chromium and austenite chromium-nickel steel*
Zakharov L. S., Gavrik A. R., Lipodaev V. N.
*E. O. Paton Electric Welding Institute, Kiev*

*Investigation of damages in zone of joining of low-alloy steel with high-alloy Cr-Ni deposited metal*
Yushchenko K. A., Kakhovsky Yu. N., Bulat A.V., Morozova R. I.,
Zvyagintseva A. V., Samoylenko V. I., Oleynik Yu. V.
*E. O. Paton Electric Welding Institute, Kiev*

*Heating and melting of the electrodes with exothermal mixture in the coating*
Vlasov A. F., Makarenko N. A., Kushchiy A. M.
*Donbass State Machine Building Academy, Kramatorsk*

*Ultraviolet irradiation in manual arc welding using coated electrodes*
Levchenko O. G.\(^1\), Malakhov A. T.\(^1\), Arlamov A. Yu.\(^2\)
\(^1\)E. O. Paton Electric Welding Institute, Kiev
\(^2\)NTUU «KPI», Kiev

*On the issue of shape and dimensions of particles in welding fumes*
Gubenya I. P., Stepanuyuk S. N., Yavdoshchin I. R., Demetskaya A. V.
*E. O. Paton Electric Welding Institute, Kiev*

*The role of testing and certification in development of welding consumables market in Poland and EU*
Niagaj J.
*Institute of Welding in Gliwice, Poland*

*Condition of normative base, certification and attestation of welding consumables in Ukraine*
Protsenko N. A.
*E. O. Paton Electric Welding Institute, Kiev*

**Technologies, equipment and control in consumables production**

*Alternative raw materials for production of welding consumables at current stage*
Slobodyanyuk V. P.
*PJSC «PlasmaTec», Vinnitsa*
Effect of grain composition of charge on technological properties of electrode compounds for manufacture of low-hydrogen electrodes
Marchenko A. E.
E. O. Paton Electric Welding Institute, Kiev

Improvement of manufacturability of production and welding properties of electrodes for welding and surfacing of tin bronze
Maydanchuk T. B., Skorynka N. V.
E. O. Paton Electric Welding Institute, Kiev

Thickness variation of electrode coating as a form of demonstration of turbulence of electrode compounds
Marchenko A. E.
E. O. Paton Electric Welding Institute, Kiev

State of source of raw materials for electrode production
Palievskaya E. A., Sidlin Z. A.
«Tekhprom» Ltd., Moscow

Trends of improvement of equipment and technology of electrode production
Gnatenko M. F., Voroshylo V. S., Suchok A. D.
«Welma» Ltd., Kiev

Novel straightening-cutting machines of ROTEKS company
Kuznetsov A. G.
«ROTEKS» Ltd, Moscow

Development of a Pilot Machine for Flux Cored Wire
A. Bracarense
Federal University of Minas Gerais-DEME, Brasil

Closing of the Conference

REGISTRATION FEE

- Registration fee for the participants is 300 Euro (150 Euro for accompanying persons).
- The registration fee includes: the expenses for preparation and publication of the Conference Proceedings, opening reception and informal dinner, coffee and tea breaks and others.
- Invoice for payment of registration fee can be sent to e-mail by participant request.