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<td>B. Paton</td>
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<td>J. Huete</td>
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VENUE

The Conference will be held at the E.O. Paton Electric Welding Institute of the National Academy of Sciences of Ukraine, 11, Bozhenko street, Kyiv.

REGISTRATION

The registration of the Conference participants will take place at the lobby of the E.O. Paton Electric Welding Institute (building No.4) on November 24 from 8.30 am to 6.00 pm and on November 25 from 8.00 am to 10.00 am.

CONFERENCE SCHEDULE

November 25, 2013 — Opening of the Conference and plenary session 10.00-18.00
November 26, 2013 — Plenary session 9.00-13.00
November 26, 2013 — Poster session. 14.00-17.00.
Closing of the Conference.

CONFERENCE FEE

Registration fee is 350 US dollars (or 280 Euro).
The registration fee includes: the expenses for publication of Proceedings of plenary session papers, reception, banquet, coffee and tea breaks and others.
The registration fee should be transferred to the following banks:

For US dollars

Beneficiary
E.O. Paton Electric Welding Institute, OKPO 5416923
11, Bozhenko Street, 03150, Kiev, Ukraine
Acc. 25300010010/840 in «Ukreximbank», 127 Gorky Street, Kiev
MFO 322313 SWIFT: EXBSUAUX
Correspondent Bank
JP Morgan Chase Bank N.A., New York, USA
Acc.400-124432, SWIFT CHAS US 33
Deutsche Bank Trust Company, USA
Acc. 04094227, SWIFT: BKTR US 33
Citibank N.A., New York, USA
Acc. 36083522, SWIFT: CITI US 33

For EUR

Beneficiary
E.O. Paton Electric Welding Institute, OKPO 5416923
11, Bozhenko Street, 03150, Kiev, Ukraine
Acc. 25300010010/978 in «Ukreximbank», 127 Gorky Street, Kiev
MFO 322313 SWIFT: EXBSUAUX
Correspondent Bank
Deutsche Bank AG, Frankfurt am Main, Germany
After transfer of the registration fee, please, inform the name of a participant and the date and number of payment order to A.V. Babaev, the Secretary of the Organizing Committee, by Fax or E-mail.

The fee can also be paid during registration.

**VISAS**

To obtain visa, You will need an official invitation. We kindly ask You to fill the enclosed registration form, indicating Your name, date of birth and passport number, and we will send You the official letter of invitation on the grounds of which You can get Your entry visa to Ukraine at the Embassy of Ukraine in Your country. *(EU countries, USA, Canada, South Korea, Brazil, Japan, Turkey, Serbia, Montenegro, Macedonia do not need visa).*

**HOTELS**

The central hotels of the city are offered to the Conference participants:

«**PREMIER-PALACE**»
5-7/29 T. Shevchenko blvd.,
Tel.: (380 44) 537 45 00, 537 45 01
Fax: (380 44) 279 87 72
e-mail: reservation@premier-palace.com
Single room with breakfast is 325 – 475 Euro;  
Double room with breakfast is 395-545 Euro.

«**RUS**»
4, Gospitalnaya str.,
Tel.: (380 44) 256 40 00
Fax: (380 44) 289 43 96
e-mail: reservation@hotelrus.kiev.ua
Single room with breakfast is 900-1950 UAH;  
Double room with breakfast is 1020-1390 UAH.

«**DNIPRO**»
1/2, Kreshchatik str.,
Tel.: (380 44) 254 67 77
Fax: (380 44) 254 67 75
e-mail: reservation@dniprohoTel.:ua
Single room with breakfast, depending on class is 73-160 Euro;  
Double room with breakfast is 89 – 210 Euro.

«**KRESHCHATIK**»
14, Kreshchatik str.,
Tel.: (380 44) 596 80 00
Fax: (380 44) 596 80 01
e-mail: reservation@hotel-khreschatyk.ua
Single room of «prestige» class with breakfast is 1900 UAH;

«UKRAINA»
4, Institutskaya str.,
Tel.: (380 44) 278 28 04; 278 66 75
Fax: (380 44) 279 13 53;
e-mail: reservation@ukraine-hotel.kiev.ua
Single room (depending on class) with breakfast is 750 – 1100 UAH;
Double room (depending on class) with breakfast is 500-625 UAH.
Prices are indicated per one place without reservation.

«PRESIDENT HOTEL-KYIV»
12, Hospitalnaya str.,
Tel.: (38044) 256 38 56
Fax (38044) 256 32 53
e-mail: reservation@president-hotel.com.ua
Single room with breakfast is 182 – 402 Euro;
Double room with breakfast is 204 – 424 Euro.

HC «FEOFANIYA» OF THE NASU
6/11, S.Perovskaya str.,
Tel.: (38 044) 456 64 53
Fax: (38 044) 371 64 48
e-mail: manager@feofaniya.org.ua
Two-bed suite is 260-300 UAH;
Single-bed suite is 350 UAH;
Suite of the II category is 250 UAH.

The prices indicated are valid as per June, 2013.
Currency exchange rate as per June, 2013:
1 US dollar is 8.1 UAH (Hryvna of Ukraine);
1 Euro is 10.2 UAH

The Organizing Committee will appreciate if You send until 25 October, 2013 the name of hotel, which You reserved yourself or desire to reserve and the period of stay. Contact the telephone: (38044) 200-60-16.

TRANSPORT

The Conference participants will be provided with transport for meeting and departure (if necessary), and also during the period of the Conference.

TIME, CLIMATE

Local time is one hour ahead of the European time. Kyiv climate is continental. Average temperature in November is 0 – minus 10 °C.
INFORMATION ABOUT KYIV

Kyiv, the capital of a sovereign state of Ukraine, is one of the most ancient cities in the world. It was founded in the V century and is known in the history as «mother of Russian cities», the capital of the first Eastern-Slavonic state, the Kievan Rus. Kyiv played an important role in the development of the world culture. It is from here that Christianity, adopted by Prince Vladimir in 988, started spreading in Russia.

Today Kyiv is developing as an European capital, city of tourism, industry and science. Having a population of about 3 million, Kyiv is the political, cultural, sport and industrial center of modern Ukraine. Here, the National Academy of Sciences of Ukraine, dozens of research institutes, design organizations and institutions of higher education are located. Industries involved are electronics, machine-building and aircraft engineering, metal working, food processing, chemical and petrochemical production and many others. Kyiv has a lot to offer to any visitor. It is famous for many architectural monuments. Very popular among residents of Kyiv and visitors are the National Opera House, circus, the Ukrainian Fork Choir and Dance companies, museums.

More than 60 % of Kyiv area is covered with gardens, parks and tree-lined boulevards. Kyiv is located on the banks of the Dnieper river, this making it inimitable in its charm.

SOCIAL EVENTS

Visit to theatres, circus, and concerts will be offered at choice.
Banquet: (Tuesday, Nov. 26, 18.00 It will be held at the Guest Hall (build. 1, 2nd floor).

PRESENTATION OF PLENARY PAPERS

To present the plenary paper, 20 minutes will be given. Demonstration of plenary papers will be provided using the multimedia projector.

PRESENTATION OF POSTER PAPERS

Poster papers will be systematized by scientific directions and arranged in a reading hall of the Institute library (build. 4, 2nd floor). Requirements for preparation of poster papers are as follows:
- poster papers should be arranged on one or two boards of size:
- A1-90 cm (height) x 60 cm (width);
- at the top the names of authors and topic of the paper should be written by letters of 30 mm height;
- below, the scientific information is arranged.
PROGRAM OF THE CONFERENCE

November 25, 2013

Plenary Session

Conference-Hall, build.4, 2nd floor
10.00

OPENING OF THE CONFERENCE

1. Research and developments of the E.O. Paton Electric Welding Institute for the nowadays power engineering. Prof. B.E. Paton (Ukraine)

2. Strategic trends of development of structural materials and technologies of their processing for aerospace engineering objects. Prof. E.N. Kablov, O.G. Ospennikov, Dr. B.S. Lomberg (Russia)

3. Progress in non-conventional welding and related processes at Beijing Aeronautical Manufacturing Technology Research Institute. Prof. Qiao Guan (China)

4. Welding or Adhesive Bonding – is this a question for the future? Prof. U. Reisgen, M. Schleser (Germany)

5. Recent advances in the quantitative understanding of friction welding. Prof. DebRoy and A. De (USA)

6. Innovation technologies in the field of structural steels and welding. Prof. I.V. Gorynin (Russia)
7. Trends in developments in gas-shielded arc welding equipment in Japan. Prof. T. Ueyama (Japan)
8. Welding today and tomorrow. Prof. J. Pilarczyk, W. Zeman (Poland)

Break 14.00-15.00

9. Advanced informative automated systems of acoustic control of welding. Prof. N.P. Alyoshin (Russia)
10. Fundamentals of technology of electric contact sintering of nanostructured metal-polymeric coatings of tribotechnical purpose. Prof. Yu. Pleskachevsky, Prof. V.A. Kovtun (Belarus)
11. Non-invasive condition monitoring of storage tank. Prof. Tat-Hean Gan, Vixhaar Dimlaye, Peter Mudge, Paul Jackson and Slim Soua (Great Britain)
12. Numerical simulation and experimental investigation of remelting process. Dr. A. Jardy (France)
13. Trends in welding in Austria. Prof. Ch. Sommitsch and Norbert Enzinger (Austria)
14. Ongoing activities and prospects related to welding technology at Laprosolda- Brazil. Prof. Louriel Vilarinho and Laura Vilarinho (Brazil)
16. Technology of hybrid laser welding for main pipelines. Prof. S. Keitel (Germany)
17. Mechanical behavior and future of sandwich structures. Prof. E. Gdoutos (Greece)

November 26, 2013
Conference-Hall, build.4, 2nd floor
9.00

18. Plasma processes in metallurgy and technology of inorganic materials. Prof. Yu.V. Tsvetkov, A.V. Nikolaev, A.V. Samokhina (Russia)
19. Gas-shielded arc welding of aluminium light weight structures. Prof. R. Winkler (Germany)
20. Application of explosion energy in welding, related processes and technologies. Prof. V.I. Lysak (Russian)
21. Trends in joining technologies – value added by welding technology. Dr. K. Middeldorf (Germany)
22. Challenging technologies of manufacture of highly-reliable structures of structural steels for basic branches of industry. Prof. A. Dub (Russia)

23. Analysis and selection of welding technologies in construction of large-diameter main pipelines. Dr. M. Beloev (Bulgaria), V.I. Khomenko, Prof. S.I. Kuchuk-Yatsenko (Russia, Ukraine)

24. Residual stress management in welding: measurement, fatigue analysis and improvement treatments. Dr. Yu. Kudryavtsev, Prof. J. Kleiman (Canada)

25. Advances in pipeline welding technologies and weld joint properties. Prof. M. Kocak (Turkey)

26. Welding, cutting and heat treatment of live tissues. Prof. B.E. Paton, Prof. I.V. Krivtsun, Dr. G.S. Marinsky, Dr. I.Yu. Khudetsky, Dr. Yu.N. Lankin, Dr. A.V. Chernets (Ukraine)

November 26, 2013

POSTER SESSION

Reading Hall of library, build.4, 2nd floor

14.00

1. TECHNOLOGY, MATERIALS AND EQUIPMENT FOR WELDING AND RELATED TECHNOLOGIES

1.1. V.V. Bashenko, K.A. Okhapkin. Effect of main design-technological parameters of spot friction welding on volumetric interaction proceeding (Russia)

1.2. V.Yu. Belous, S.V. Akhonin, R.V. Selin, S.L. Antonyuk. Welding of high-strength titanium alloy T110 (Ukraine)

1.3. S.V. Bondarev. Investigation of hydrophobic-hydrophilic properties of electrode covering components (Ukraine)

1.4. S. Brumm, G. Buerkner, M. Kusch. Welding of unalloyed steels with GMAW process using thick wire electrodes (Germany)

1.5. A.V. Vladimirov, V.A. Khabuzov, S.Yu. Maksimov, V.A. Lebedev. Digital synthesis of pulsed arc welding (Russia, Ukraine)

1.6. P.A. Gavrish, V.I. Tulupov. Improvement of preheating methods for copper to steel welding (Ukraine)
1.7. A.A. Gaivoronsky, Yu.V. Demchenko, A.I. Panfilov. Technologies for welding repair of damaged members of metal structures of ore mining and processing equipment (Ukraine)

1.8. V.V. Golovko, I.K. Pokhodnya. Effect of morphology of non-metallic inclusions on formation of microstructure of the weld metal on high-strength low-alloy steels (Ukraine)

1.9. I.A. Goncharov. Development of welding fluxes with predictable technological and metallurgical properties on the basis of structural and physical-chemical investigations (Ukraine)

1.10. S.N. Goncharov, M.P. Shalimov. Selection of procedures for evaluation of weldability of high-strength steels (Russia)

1.11. E.G. Grigorieva, D.A. Chinakhov. Possibility of using welding with double-jet gas shielding for repair of worn-out surfaces of parts (Russia)


1.15. A.A. Demyanchenko. Control of structure of zones of welded joints on alloyed steels by using the adaptive pulsed technologies of welding (Russia)

1.16. V.P. Elagin, G.N. Gordan. On the mechanism of decreasing chemical and structural heterogeneity in the austenitic weld to low-carbon steel fusion zone (Ukraine)

1.17. D.I. Zainulin, V.A. Lebedev, S.V. Maksimov, V.G. Pichak. Unique system of equipment for automatic arc welding at large depths under the maximum limited conditions (Ukraine)

1.18. L.S. Zakharov, A.R. Gavrik. Development of the technology for welding of dissimilar joints on martensitic steel 10KH9NMFB to austenitic chrome-nickel steels of the 08KH18N10T type (Ukraine)

1.20. V.M. Ilyushenko, A.V. Ganchuk, V.A. Lysenko, V.N. Petrichenko, D.N. Stepchenko. High-efficiency technology for welding of thick metal (Ukraine)

1.21. S.V. Kabysh, G.B. Esaulenko, M.G. Menzheres. Peculiarities of formation of supermolecular structure of the joining zone in ultrasonic and thermal welding of crystalline polymeric sheets (Ukraine)

1.22. V.D. Kassov, A.M. Kushchij. Upgrading of the technology for surface preparation of metal structures of a complex volume-surface shape for repair welding (Ukraine)

1.23. V.V. Kvasnitsky, A.M. Kostin, A.V. Labartkava, Al.V. Labartkava. Peculiarities of brazing of cermet pressure seals (Ukraine)

1.24. V.V. Kvasnitsky, L.I. Markashova, V.F. Kvasnitsky, N.N. Koval, Yu.F. Ivanov, V.V. Uglov, N.N. Cherenda, I.L. Levchenko. Diffusion bonding of metals using radiation-beam technologies (Ukraine, Russia, Belarus)

1.25. V.V. Kvasnitsky, L.I. Markashova, V.F. Kvasnitsky, N.N. Koval, Yu.F. Ivanov, V.V. Uglov, N.N. Cherenda, I.L. Levchenko. Brazing of metals using radiation-beam technologies (Ukraine, Russia, Belarus)


1.27. A.E. Korotynsky, I.V. Vertetskaya, V.A. Shapka. Application of differential taylor transform in problems of investigation of processes occurring in nonlinear oscillatory circuit (Ukraine)

1.28. A.E. Korotynsky, N.P. Drachenko, V.A. Shapka. Peculiarities of charging-discharging processes in super capacitors (Ukraine)

1.29. V.M. Kulik, E.L. Demchenko, D.V. Vasiliev, V.P. Elagin. New electrode materials for welding and cladding of high-strength and dissimilar steels (Ukraine)

1.30. T.M. Labur. Increase in strength and toughness of welded joints on aluminium alloys (Ukraine)

1.31. V.A. Lebedev, A.I. Gedrovich, K.V. Borodina. Electric-arc fusion welding of metal of small thickness (Ukraine)

1.32. V.A. Lebedev, A.I. Gedrovich, V.N. Sysoev. Formation of welds in gas-shielded pulsed arc welding of beams (Ukraine)
1.33. V.A. Lebedev, S.Yu. Maksimov, I.V. Lendel. Mathematical model of temperature fields and optimal parameters of deposited bead under controlled mechanical effects (Ukraine)

1.34. V.A. Lebedev, S.Yu. Maksimov, Yu.A. Yaros. Power supply for mechanised metal arc welding of remote objects (Ukraine)

1.35. V.A. Lebedev, D.V. Plyushch. Technological reliability of mechanised welding equipment (Ukraine)

1.36. V.A. Lebedev, M.S. Sorokin, A.A. Belov. Upgrading of principles of control of electrode metal transfer in arc welding with short circuits (Ukraine, Russia)

1.37. L.M. Lobanov, O.M. Timoshenko, P.V. Goncharov. Technology and equipment for arc spot welding in vertical position (Ukraine)

1.38. M.V. Matvienko, G.V. Ermolaev, V.V. Kvasnitsky. Influence of slipping of dissimilar material surfaces being joined on the stress-strain state in vacuum diffusion welding with thermal cycling (Ukraine)

1.39. P. Mayr, M. Kusch, L. Ebert, F. Podlesak. Influence of plasma transfer arc welding with pulsed process gas feeding on welding metallurgy of cobalt based hardfacing alloys (Germany)

1.40. S.I. Moravetsky, A.K. Tsaryuk, V.Yu. Skulsyky. Certification of technology of welding combined rotors from steels 25Kh2NMFA + 20Kh3MVFA (EI415) for steam turbines (Ukraine)

1.41. N.P. Nesterenko, A.N. Galchun, V.Yu. Kondratenko, A.G. Skok. On effectiveness of application of pneumatically driven machine for butt welding of up to 400 mm diameter pipes from crystal-amorphous polymers (Ukraine)

1.42. N.P. Nesterenko, S.M. Dyachenko, I.K. Senchenkov. Technology and equipment for ultrasonic welding of heat-resistant composite materials applied in automotive and aircraft construction (Ukraine)

1.43. N.P. Nesterenko, N.G. Korab, A.N. Galchun. Experimental-theoretical investigation of laser welding of thin polyethylene films (Ukraine)

1.44. N.P. Nesterenko, E.A. Mineev. Features of welding pipes from unplasticized polyvinylchloride (Ukraine)

1.45. B.E. Paton, Yu.N. Saraev, V.A. Lebedev. Prospects for development and practical application of pulsed welding and surfacing technologies to improve operating reliability of critical metal structures (Ukraine, Russia)

1.47. I.V. Pentegov, V.N. Sidorets, S.V. Rymar, A.M. Zhernosekov. Influence of modern arc power sources on the mains (Ukraine)

1.48. A.S. Pismennii, A.A. Pismennii, A.S. Prokofiev, R.S. Gubatyuk. Investigation and development of experimental technology and equipment for heat treatment of welds of railway rails (Ukraine)

1.49. A.S. Pismennii, V.V. Polukhin, V.I. Polukhin, R.S. Gubatyuk. Experimental technologies and equipment for seam welding and braze-welding of thin-walled pipes from high-strength steels by high-frequency currents (Ukraine)


1.51. H. Pokhmurska, B. Wielage, Ch. Rupprecht. Overview lecture about research trends for TS-processes (Germany)


1.53. S.G. Psakhtje, K.A. Yushchenko, Yu.N. Saraev, Yu.N. Kakhovsky, V.P. Bezborodov. Establishing scientific fundamentals of development of multimodal welding consumables and pulsed technologies to produce permanent joints and fused coatings with multiscale structure for items operating in extreme north and arctic regions (Ukraine)

1.54. A.D. Razmyshlayev, M.V. Mironova, S.V. Yarmonov, P.A. Vydymysh. Improvement of effectiveness of processes of arc welding and surfacing under the impact of controlling magnetic fields (Ukraine)


1.56. A.P. Semyonov, I.V. Krivtsun, V.F. Demchenko. Simulation of the processes of melting and fusion of electrode metal in consumable electrode welding (Ukraine)

1.57. A.G. Sineok, A.M. Gerasimenko, V.D. Ryabokon, K.V. Ryabtsev, V.V. Brichak, S.N. Tolstyi. Modern welding technologies at enlargement and mounting of the arch metal structures of Podol bridge in Kiev (Ukraine)
1.58. A.G. Sineok, A.M. Gerasimenko, V.D. Ryabokon, K.V. Ryabtsev, A.A. Gotsulyak. Development of technologies of welding weather-resistant rolled stock of strength classes 355–500 MPa (Ukraine, Poland)

1.59. T.G. Skuba, V.A. Kolyada, V.V. Dolinenko, E.V. Shapovalov. Development of simulation model of robotic multipass MIG/MAG welding for experimental investigations of the influence of schematics and modes of making the welds on stress-strain states (Ukraine)

1.60. E.G. Ternovoj, V.F. Shulym, Yu.N. Lankin. Repair of fragments of the case of international space station with application of electron beam welding (Ukraine)

1.61. A.I. Ustinov, T.V. Melnichenko, Yu.V. Falchenko, L.V. Petrushinet. Electron beam methods to produce nanostructured foils and their application in welding of difficult-to-weld materials (Ukraine)

1.62. A.I. Ustinov, V.A. Telichko, S.A. Demchenkov, C. Bruckmueller, A. Hancic. EB PVD technology of producing functional quasicrystalline coatings and their properties (Ukraine, Austria, Slovenia)

1.63. G.K. Kharchenko, M.N. Rudenko, O.O. Novomlinets, M.O. Kholmenko. Generation of electric potential on the surface of metal samples at self-propagating high-temperature synthesis in nanolayered foils (Ukraine)

1.64. V.F. Khorunov, S.V. Maksimova. Vacuum brazing of multilayer thin-walled structures (Ukraine)

1.65. V.F. Khorunov, Khorunov, S.V. Maksimova, V.V. Myasoed. Formation of brazed joints based on Ni₃Al (Ukraine)

1.66. A.K. Tsaryuk, V.D. Ivanenko, N.I. Dunaevskaya. Repair technology for extension of service life of boilers of operating HPP power units (Ukraine)


1.68. D.A. Chinakhov. Investigation of the influence of shielding gas jet on heat distribution in the consumable electrode welding zone (Russia)

1.69. D.A. Chinakhov, A.V. Zuev. Consumable electrode welding with double-jet gas shielding (Russia)

1.70. V.A. Shapka. Selection of the structure of driving generator for operation of HFMP actuator (Ukraine)

1.72. M.A. Sholokhov, A.M. Fiseiskii, D.S. Buzorina. Investigation of the influence of technological parameters on formation of near-wall bead in gas-shielded multipass welding *(Russia)*


1.75. K.A. Yushchenko, T.N. Kushnareva, V.E. Mazurak. Results of investigation of producing high-temperature nickel alloy joints by reaction-diffusion process *(Ukraine)*

2. STRENGTH OF WELDED JOINTS AND STRUCTURES, THEORETICAL AND EXPERIMENTAL INVESTIGATIONS OF STRESS-STRAIN STATES AND THEIR CONTROL

2.1. A.I. Balytsky, Ye. Novatsky, I.F. Kostyuk, O.B. Vus, O.S. Skolozdra. Performance of high-nitrogen steels and their welded joints at long service in hydrogen *(Poland, Ukraine)*

2.2. I.A. Boyko, A.G. Grin, V.K. Lysak. Methods of determination of hot hardness of metal *(Ukraine)*

2.3. I.A. Galtsov, A.V. Kalenskaya, S.A. Tkachenko, A.N. Tkachenko. Control of residual welding stresses during welding of clad steel 09G2S + 08Kh18N10T *(Ukraine)*

2.4. O.R. Gachkevich, V.I. Astashkin, T.V. Kozakevich, A. Ravska-Skotniczni. Phase composition and residual stresses in thin steel plates during preheating using moving heat sources *(Ukraine, Poland)*

2.5. L.S. Denisov. Investigation of formation of defectiveness of welded joints *(Belarus)*

2.6. A. Dzyubik. Residual strength of main pipelines of high-strength steels *(Ukraine)*

2.7. V.V. Dmitrik, S.N. Bartash. Towards the mechanism of ageing of welded joints of steam pipelines *(Ukraine)*

2.8. V.V. Dmitrik, T.A. Sirenko. Mechanism of degradation of metal of welded joints of steam pipelines *(Ukraine)*

2.10. P.V. Zankovets, V.K. Sheleg. Influence of dominating factors on formation of welded joints under the conditions of single and small-scale welding manufacturing (Belarus)

2.11. V.V. Kvasnitsky, I.A. Kolesar, V.F. Kvasnitsky, G.V. Ermolaev, A.V. Labartkava. Investigation of influence of rigidity and strength of interlayer on stress-strain state at loading of welded and brazed components by axial load (Ukraine)


2.13. I.N. Klochkov, I.V. Berezin, O.V. Berezin. Increase of life of welded joints of thin-sheet aluminium alloys using high-frequency mechanical peening (Ukraine)

2.14. V.V. Knysh, S.A. Solovey, A.Z. Kuzmenko. Increase of cyclic life of welded joints of in-service metal structures using high-frequency mechanical peening (Ukraine)

2.15. E.V. Kolomiytsev. Improvement of service life of changeable equipment and welded structures of open-hearth shop (Ukraine)

2.16. E.V. Kolomiytsev. Fatigue and corrosion-fatigue strength and life of welded joints of steel 12Kh18N10T (Ukraine)

2.17. E.V. Kolomiytsev, A.N. Serenko. Increase of life and fatigue strength of welded structures by surface plastic treatment (Ukraine)

2.18. O.V. Kolot, S.O. Tkachenko, A.M. Tkachenko. Vibro-treatment as a reserve of quality improvement of metal structures (Ukraine)


2.20. R.M. Kushnir, B.D. Drobenko. Assessment of stressed state and service life of elements of 200 MW power units (Ukraine)

2.22. L.I. Markashova, O.S. Kushnareva. Investigation of correlation of structure with mechanical properties of welded joints of aluminium-lithium alloy (Ukraine)

2.23. L.I. Markashova, V.D. Poznyakov, E.N. Berdnikova, T.A. Alekseenko, A.A. Maksimenko. Welded joints of high-strength steels under service conditions (Ukraine)


2.25. V.I. Makhnenko, E.A. Velikoivanenko, G.F. Rozynka, N.I. Pivtorak. Mathematic models of tough fracture of welded structures based on mechanism of pore formation (Ukraine)


2.27. S.V. Medvedev, K.A. Klimov. Prediction supercomputer modeling of processes of fracture of critical welded structures (Belarus)

2.28. S.V. Medvedev, O.P. Chizh. Constructive-technological designing of welded structures with application of supercomputer facilities of national grid-NETWORK (Belarus)

2.29. A.S. Milenin. Methodological bases of planning of repair of main pipelines without service interruption (Ukraine)

2.30. V.V. Mutas, M.A. Netrebsky, M.D. Rabkina. Method of assessment of stress-strain state of cylindrical structures, operating under internal pressure, with local surface defects (Ukraine)

2.31. Z.T. Nazarchuk, V.P. Skalsky. Methodological bases of identification of mechanisms of fracture of aluminium alloy welded joints by acoustic emission parameters (Ukraine)

2.32. Z.T. Nazarchuk, V.P. Skalsky, O.M. Stankevich, I.M. Lyasota. Identification of fracture mechanisms of welded joints of alloy 1201-T by parameters of acoustic emission signals (Ukraine)

2.33. V.A. Nekhotyashchyi, A.L. Palienko, A.A. Perepichaj, M.D. Rabkina. Prediction of safe service of pressure vessels with account for magnetic inhomogeneity of metal (Ukraine)

2.35. A.I. Panfilov. Application of bimetal sheets SWIP for protection of technological equipment (Ukraine)


2.37. M.I. Podgurskiy, B.P. Tatarin, I.M. Podgurskyi. Modeling of initiation and propagation of fatigue surface cracks in welded joints (Ukraine)

2.38. V.D. Poznyakov, S.L. Zhdanov, A.A. Maksimenko. New structural steels for welded building metal structures (Ukraine)

2.39. M.V. Radchenko, B.I. Mandrov. Improvement of service life of containers by application of welded shells of polymeric materials (Russia)

2.40. V.A. Royanov, P.V. Korostashevsky. Investigation of formula of end edge bending of sheet panels by accounting for empiric coefficient of stickout length and sheet thickness (Ukraine)

2.41. A.V. Sviridov, A.G. Grin. Investigation of mechanical properties of welded joints on copper base (Ukraine)

2.42. M.S. Khoma. Corrosion-mechanical fracture of pipe steels with welded joints in hydrogen sulphide environments (Ukraine)

2.43. K.A. Yushchenko, T.N. Kushnareva, V.A. Mazurak. Results of investigations of producing joints of heat-resistant nickel alloys by reaction-diffusion method (Ukraine)

2.44. K.A. Yushchenko, V.S. Savchenko, A.V. Zvyagintseva, N.O. Chervyakov, V.N. Tkach. Assessment of crystallographic anisotropy of elastic properties of weld metal of nickel alloys by using nanoindentation (Ukraine)

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3.3. L.M. Lobanov, V.A. Pivtorak, I.V. Kiyanets, V.V. Savitskiy, E.M. Savitskaya. Non-destructive determination of diameters of nuggets of spot welded joints by electron shearography method using mechanical and thermal loading (Ukraine)


3.5. L.M. Lobanov, V.A. Pivtorak, E.M. Savitskaya, I.V. Kiyanets. Quality control of welded titanium panels from VT-20 alloy using electron shearography method (Ukraine)


3.8. M.S. Sorokin, A.A. Belov, V.A. Lebedev. System for automation and control of welding production (Russia, Ukraine)


3.11. V.A. Troitsky, Yu.N. Posypayko. Complex non-destructive testing of welded tanks of large volume (Ukraine)


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4.2. V.P. Bezborodov. Main regularities of structure formation and properties of transition zone of compositions with coatings after high-temperature effect (Russia)

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4.20. Yu.S. Korobov, M.A. Filippov, V.V. Legchilo, Yu.V. Khudorozhkova, V.S. Verkhurov. Influence of metastable chromium austenite on the properties of materials deposited by surfacing and spraying (Russia)


4.23. O.G. Kuzmenko, I.P. Lentyugov. Development of materials for wear-resistant surfacing using grinding wastes of high-speed steel (Ukraine)


4.28. L.N. Orlov, A.A. Golyakevich. Restoration surfacing of metallurgical equipment components with flux-cored wires at «TM. VELTEK LTD» (Ukraine)


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5.3. E.A. Asnis, N.V. Piskun, I.I. Statkevich, P.I. Baranskii, V.M. Babich. Nitrogen alloying of silicon crystals in process of their growing by electron beam crucibleless zone melting method (Ukraine)


5.5. F.K. Biktagirov, N.V. Reyda, V.A. Shapovalov, V.M. Efimov, A.A. Selyutin, V.G. Padalka. Electroslag heating and hot-topping of discard of large ingots of 200-400 t mass (Ukraine)

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5.8. V.P. Piptyuk, I.V. Krikent, S.E. Samokhvalov, I.N. Logozinskiy, V.A. Polyakov, S.V. Grekov. Estimation of value and effect of electromagnetic forces on pool stirring of ladle furnace unit of alternating current (Ukraine)

5.9. A. Polishko, V. Saenko, S. Stepanyuk, A. Tunik, I. Klochkov. Transformation of non-metallic inclusions in the process of electroslag remelting and electroslag surfacing with liquid metal of high-alloy steel of AISI of type 316 (10KhN14M2) (Ukraine)


5.11. Yu.V. Tsvetkov, A.V. Nikolaev, A.V. Samokhin. Plasma processes in metallurgy and technologies of inorganic materials (Russia)

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6.4. O.G. Levchenko, V.K. Levchuk, O.M. Goncharova. Methods of providing electromagnetic safety of operators of resistance spot welding machines (Ukraine)

6.5. O.G. Levchenko, A.O. Lukyanenko. Normalization of concentration of hazardous substances at work stations for manual arc welding (Ukraine)

6.6. V.N. Lipodaev, A.T. Zelnichenko. «The Paton Welding Journal» at current stage (Ukraine)

6.7. A.A. Mazur. Economic problems of welding and related technologies (Ukraine)


6.9. P.P. Protsenko. System for professional training of qualified welders based on competence approach (Ukraine)