EBT 2016 SCIENTIFIC PROGRAM

Data	Time	Event	Chairman/Place
13.06.2016	18:00-19:00	Registration	EBT 2016 Conference office - Lobby of the Grand Hotel Varna
	19:00	Welcome cocktail party	Lobby-bar of the Grand Hotel Varna
14.06.2016	10:00-12:10	Tuesday morning session 1	Prof. Georgi Mladenov
	12:10-13:30	Lunch	Any of the hotel restaurants
	13:30-15:10	Tuesday afternoon session 1	Prof. Rolf Zenker
	15:10-17:00	Tuesday afternoon session 2	Dr. Colin Ribton
	17:00-18:00	Tuesday afternoon session 3	Prof. Takeshi Tanaka
	18:00-19:00	Tuesday poster session	Sci. secretary: Lilyana Koleva
	19:00-20:30	Dinner	Any of the hotel restaurants
	20:30	Sports and Outdoor Chess Competition	
15.06.2016	9:20-11:00	Wednesday morning session 1	Prof. Katia Vutova
	11:00-12:30	Wednesday morning session 2	Assoc. Prof. Elena Koleva
	12:30-14:00	Lunch	Any of the hotel restaurants
	14:00-15:40	Wednesday afternoon session 1	Dr. Goesta Mattausch
	15:40-17:10	Wednesday afternoon session 2	Assoc. Prof. Dimitriy Trushnikov
	17:10-18:00	Wednesday poster session	Sci. secretary: Volodya Dzharov
	19:00	Official conference dinner	Thematic hotel restaurant
16.06.2016	9:30-11:10	Thursday morning session 1	Mr. Dmytro Kovalchuk
	11:10-12:50	Thursday morning session 2	Prof. Papken Hovsepian
	12:50-14:20	Lunch	Any os the hotel restaurants
	14:20-16:10	Thursday afternoon session 1	Prof. Nikolai Kuksanov
	16:10-16:20	Closing of the official part of the conference	
	16:20-20:00	Outdoor sport events	
17.06.2016	9:20	Excursion with dinner	
18.06.2016		Departure day	

13 June 2016

Monday

18:00	**Registration**	**EBT 2016 Conference office - Lobby of the Grand Hotel Varna**
19:00	**Welcome cocktail party for participants and the all accompanying persons**	**Lobby-bar of the Grand Hotel Varna**

14 June 2016
Tuesday

Tuesday morning sessions

9:50-10:00	**Opening Ceremony**
SS1	**Chairman: Prof. Georgi Mladenov**
10:00-10:30	***Invited presentation 1:*** **Building the Eco – system for the electro – optics platform** ***Mr. Kenneth Tai*[1,2]** *1) Jasper Display Corp. Headquarter, TW, Hsinchu City, Taiwan* *2) Jasper Display Corp., Subsidiary, Santa Clara, CA, USA*
10:30-11:00	***Invited presentation 2:*** **State of the art of additive manufacturing by selective electron beam melting** ***Georgi Mladenov*[1,2], *Elena Koleva*[1,2,3], *Lilyana Koleva*[3] *and Volodya Dzharov*[1]** *1) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria* *2) Technological Center of Electron Beam and Plasma Technologies and Technique Ltd., Sofia, Bulgaria* *3) University of Chemical Technology and Metallurgy, Bulgaria*

11:00-11:10 Coffee break

11:10-11:40	**Effect of craters on deep hardening under pulsed electron beam** ***Thierry Grosdidier*[1,2], *Youssef Samih*[1,3] *and Chuang Dong*[2,3]** *1) Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux (LEM3), CNRS UMR 7239,Université de Lorraine, Île du Saulcy, 57000 Metz, France* *2) LABoratoied'ExcellenceDesign des Alliages Métalliques pour Allègement de Structures (Labex DAMAS), Île du Saulcy, 57000 Metz, France* *3) Key Laboratory of Materials Modification, Dalian University of Technology, Dalian, China*
11:40-12:10	**Vistec Electron Beam, Germany – Company presentation** ***Mr. Hartmut Schacke and Ines Stolberg*** *Vistec Electron Beam, Germany*

12:10-13:30 **Lunch in any of the hotel restaurants**

Tuesday afternoon session 1

SS2	**Chairman: Prof. Rolf Zenker**
13:30-13:50	**Study on dual metal materials electron beam selective melting** ***Chao Guo*[1,2,3], *Wenjun Ge*[1,2,3] *and Feng Lin*[1,2,3]** *1) Department of Mechanical Engineering, Tsinghua University, Beijing 100084, China* *2) Key Laboratory for Advanced Materials Processing Technology (Ministry of Education of China), Tsinghua University, Beijing 100084, China* *3) Biomanufacturing and Rapid Forming Technology Key Laboratory of Beijing, Tsinghua University, Beijing 100084, China*
13:50-14:10	**Electron beam additive manufacturing at the Nuclear AMRC** ***Bernd Baufeld, R. Widdison, Thomas Dutilleul and Keith Bridger*** *Nuclear AMRC, University of Sheffield, United Kingdom*

14:10-14:20 Coffee break

14:20-14:40	**Numerical investigation of the influence of electron beam acceleration voltage in powder based additive manufacturing processes** ***Fuad Osmanlic, Alexander Klassen, Thorsten Scharowsky and Carolin Körner*** *Metals Science and Technology, University of Erlangen-Nuremberg, Erlangen, Germany*
14:40-15:00	**Prospects of application of gas–discharge electron beam guns in additive manufacturing** ***Dmytro Kovalchuk, Vitalii Melnyk, Ihor Melnyk and Borys Tugai*** *JSC NVO "Chervona Hvilya" Kyiv, Ukraine*

15:00-15:10 Coffee break

Tuesday afternoon session 2

SS3	**Chairman: Dr. Colin Ribton**
15:10-15:40	***Invited presentation 3:*** **Some topics and other application of electron beam** ***Dr. Masud Naraghi*** *Torr International, New Windsor, New York, USA*
15:40-16:00	**Electron beam characterizing and its relevance for production** ***Clemens Liebig, Jürgen Fath and Thorsten Löwer*** *Pro-beam AG & Co. KGaA, Planegg, Germany*

16:00-16:10 Coffee break

16:10-16:30	**Design of electron guns using a bespoke genetic algorithm** ***Colin Ribton[1,2], Sofia del Pozo[1,2], Wamadeva Balachandran[1] and David Ryan Smith[1]*** *1) Brunel University London, United Kingdom* *2) TWI Ltd, United Kingdom*
16:30-16:50	**Development of a novel device and analysis method for characterising electron beams for welding application** ***Aman Kaur[1], Colin Ribton[1,2] and Wamadeva Balachandran[1]*** *1) Brunel University London, United Kingdom* *2) TWI Ltd, United Kingdom*

16:50-17:00 Coffee break

Tuesday afternoon session 3

SS4	**Chairman: Prof. Takeshi Tanaka**
17:00-17:20	**Direct metal printing** ***Massimiliano Di Lecce*** *Ideativ A (Design and environmental sustainability consulting), Italy*

17:20-17:40	**Investigation of forming process during electron beam Surfi – Sculpt™** ***Kai LI, Xichang WANG, Pengfei FU, Shuili GONG and Zhiqiang LI*** *Science and Technology on Power Beam Processes Laboratory, Beijing Aeronautical Manufacturing Technology Research Institute, Beijing, 100024, China*
17:40-18:00	**Comparative analysis of the secondary emission current and x – ray radiation dependency on the beam's position along the joint during electron beam welding** ***Vladimir Ya. Braverman, Valeriy V. Bogdanov, Nikolay V. Uspenskiy and Vladimir S. Belozertsev*** *M.F. Reshetnev Siberian State Aerospace University Krasnoyarsk, Russian Federation*

Tuesday Poster session
18:00-19:00

PS1	**Sci. secretary: Lilyana Koleva**
1	**Performance of the XR 1541 negative e-beam resist in the e-beam lithography for chosen substrate materials** ***Robert Andok[1], Jaroslava Skriniarova[2], Pavol Nemec[1] and Anna Bencurova[1]*** *1) Institute of Informatics, Slovak Academy of Sciences, Dubravska cesta 9, SK-84507 Bratislava, Slovak Republic* *2) Institute of Electronics and Photonics, Faculty of Electrical Engineering and Information Technology, Slovak University of Technology in Bratislava, Ilkovičova 3, SK-81219 Bratislava, Slovak Republic*
2	**Spore – forming bacteria sterilization using plasma – based ion implantation (2nd report)** ***Koji Kakugawa[1], Kai Saitoh[2], Kazuhiro Shimono[1], Hiromitsu Noguchi[1], Yoshinobu Tsuchiya[1] and Takeshi Tanaka[2]*** *1) Department of Food Science and Biotechnology, Faculty of Life Sciences, Hiroshima Institute of Technology, Hiroshima, Japan* *2) Department of Electronics and Computer Engineering, Hiroshima Institute of Technology, Japan*
3	**Simulation of ion implantation for Si using TCAD** ***Takuma Adachi, Yuki Hirota, Yousuke Nakaguchi, Kota Takahama, Koji Mukai, Masayuki Yamauchi, Nobuharu Okamitsu and Takeshi Tanaka*** *Department of the Electronics and Computer Engineering, Faculty of Engineering, Hiroshima Institute of Technology, Japan*
4	**Resist characteristics simulation of HSQ electron beam resist** ***Anna Bencurova[1], Katia Vutova[2], Elena Koleva[2,3,4], Ivan Kostic[1], Anna Konecnikova[1], A. Ritomsky[1] and Georgi Mladenov[2,3]*** *1) Institute of Informatics, Slovak Academy of Sciences, Dubravska cesta 9, SK-84507 Bratislava, Slovak Republic* *2) Institute of Electronics, Bulgarian Academy of Sciences, Sofia, Bulgaria* *3) Technology Centre of Electron Beam and Plasma Technologies and Techniques, Sofia, Bulgaria* *4) University of Chemical Technology and Metallurgy, Bulgaria*
5	**Non – vacuum electron beam apparatus based on the plasma emitter** ***A. Aksenov, S. Kornilov, M. Motorin, Nikolay Rempe, D. Shashev and S. Shidlovskiy*** *Tomsk State University of Control System and Radio-electronics, Tomsk, Russian Federation*
6	**Flash electron beam welding of stainless steels 1.4510 and 1.4511** ***Jiří Matlák[1], I. Šipula[2], V. Štraus[2] and I. Dlouhý[1]*** *1) Institute of Materials Science and Engineering, NETME centre, Brno University of Technology, Czech Republic* *2) Robert Bosch, spol. s r.o., České Budějovice, Czech Republic*

7	**Characteristics of plasma generated during electron beam welding** ***Georgi Mladenov*[1,2], *Dmitriy Trushnikov*[3], *Elena Koleva*[1,2,4] *and Vladimir Belenkiy*[3]** *1) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria* *2) Technology Centre of Electron Beam and Plasma Technologies and Techniques, Sofia, Bulgaria* *3) Perm National Research Polytechnic University, Perm, Russian Federation* *4) University of Chemical Technology and Metallurgy, Bulgaria*
8	**Corrosion resistance of Ti-Ta-Nb and Ti-Ta-Zr coatings fabricated on VT14 titanium alloy substrates using the electron beam injected into the atmosphere** ***Vitaliy V. Samoylenko*[1], *Igor A. Polyakov*[1], *Mikhail G. Golkovski*[2], *Nikolay K. Kuksanov*[2], *Olga G. Lenivtseva*[1] *and Ilya S. Ivanchik*[3]** *1) Novosibirsk State Technical University of Russia, Novosibirsk, Russian Federation* *2) Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russian Federation* *3) Siberian State University of Water Transport of Russia, Novosibirsk, Russian Federation*
9	**The new condensed from vapor phase composite materials based on copper and their applications** ***Nikolai I. Grechanyuk*[1], *V. G. Grechanyuk*[1], *E. V. Khomenko*[1], *I. N. Grechanyuk*[1], *V. G. Zatovsky*[1] *and D. Kovalchuk*[2]** *1) Frantsevich Institute for Problems of Materials Science, The National Academy of Sciences of Ukraine, Ukraine* *2) JSC NVO "Chervona Hvilya" Kyiv, Ukraine*
10	**Automation control of EBW installation by SIMATIC S7-300 PLC** ***Elena Kolva*[1,2,3], *Volodya Dzharov*[1] *and Peter Yordanov*[2]** *1) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria* *2) University of Chemical Technology and Metallurgy, Bulgaria* *3) Technology Centre of Electron Beam and Plasma Technologies and Techniques, Sofia, Bulgaria*

19:00-20:30 **Dinner in any of the hotel restaurants**

20:30 **Sport events and outdoor chess competition**

15 June 2016
Wednesday

Wednesday morning session 1

SS5	**Chairman: Prof. Katia Vutova**
9:20-9:40	**High resolution nanofabrication** ***Yordan M. Georgiev*** *Institute of Ion Beam Physics and Material Research, Helmholtz-Zentrum, Dresden-Rossendorf, Germany*
9:40-10:00	**Pulsed electron beams for surface finish of laser or electron beam sintered metal articles** ***Anton D. Teresov*[1,2], *Nikolai N. Koval*[1,2], *Yuri F. Ivanov*[1,2] *and Elizaveta A. Petrikova*[1,2]** *1) Institute of High Current Electronics SB RAS, Tomsk, Russian Federation* *2) National Research Tomsk State University, Tomsk, Russian Federation*

10:00-10:10 Coffee break

10:10-10:30	**High – temperature radiolysis of alkanes: synthesis and decomposition** ***Alexander V. Ponomarev, A. K. Metreveli, A. V. Bludenko and V. N. Chulkov*** *A.N.Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Russian Federation*
10:30-10:50	**Application of electron beam irradiation to modify the rheological behavior of pectins** ***Monica R. Nemtanu and Mirela Brasoveanu*** *National Institute for Lasers, Plasma and Radiation Physics, Electron Accelerators Laboratory, Romania*

10:50-11:00 Coffee break

Wednesday morning session 2

SS6	**Chairman: Assoc. Prof. Elena Koleva**
11:00-11:20	**Electron beam characterisation** ***Thomas Dutilleul, J. Priest and Bernd Baufeld*** *Nuclear AMRC of the University of Sheffield, United Kingdom*
11:20-11:40	**Emittance – quantitative characteristics of welding beam quality** ***Elena Koleva[1,2,3], Georgi Mladenov[1,3], Volodya Dzharov[1], Dimitar Todotov[1,4], Marin Kerdjiev[1], Lilyana Koleva[2]*** *1) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria* *2) University of Chemical Technology and Metallurgy, Bulgaria* *3) Technology Centre of Electron Beam and Plasma Technologies and Techniques, Sofia, Bulgaria* *4) Telenor, Bulgaria*

11:40-11:50 Coffee break

11:50-12:10	**Automated wide-aperture plasma cathode electron source with beam extraction into the atmosphere** ***Maxim Vorobyov[1], V. V. Denisov[1], N. N. Koval[1,2], S. A. Sulakshin[1], V. V. Shugurov[1] and V. V. Yakovlev[1]*** *1) Institute of High Current Electronics SB RAS, Tomsk, Russian Federation* *2) National Research Tomsk State University, Tomsk, Russian Federation*
12:10-12:30	**Development of a toroidal EB source for non–thermal electron treatment of bulk goods** ***Ignacio Vicente–Gabas, Ralf Blüthner, Sebastian Schmidt, S. A. Sulakshin, Goesta Mattausch and Frank–Holm Roegner*** *FEP - Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology, Dresden, Germany*

12:30-14:00 **Lunch in any of the hotel restaurants**

Wednesday afternoon session 1

SS7	**Chairman: Dr. Goesta Mattausch**
14:00-14:20	**Large chamber electron beam welding machine designed for joining of 3D structures** ***F. Kolenic, Daniel Drimal, P. Faragula and L. Kovac*** *First Welding Company Inc., Kopcianska 14, Bratislava, Slovak Republic*

14:20-14:40	**The influence of beam positioning on the weld ability of dissimilar welding joints with high alloy TRIP/TWIP steels** ***Lars Halbauer*[1], *Anja Buchwalder*[1], *Rolf Zenker*[1,2] *and Horst Biermann*[1]** *1) TU Bergakademie Freiberg, Institute of materials engineering, Germany* *2) Zenker Consult, Mittweida, Germany*

14:40-14:50 Coffee break

14:50-15:10	**EBW application for the manufacture of HEBT dipole vacuum chambers, FAIR** ***Aleksey M. Medvedev*[1,3], *Alexey M. Semenov*[1,2], *Yuri I. Semenov*[1], *Alexandr A. Starostenko*[1,3], *Mikhail M. Sizov*[1,3] *and Aleksandr S. Tcyganov*[1]** *1) Budker Institute of Nuclear Physics, Novosibirsk, Russian Federation* *2) Novosibirsk State Technical University, Novosibirsk, Russian Federation* *3) Novosibirsk State University, Russian Federation*
15:10-15:30	**Application of low – transformation – temperature (LTT) materials for stress reduction in electron beam welding** ***Uwe Reisgen, Simon Olschok and Stefan Gach*** *ISF RWTH Aachen University, Germany*

15:30-15:40 Coffee break

Wednesday afternoon session 2

SS8	**Chairman: Assoc. Prof. Dimitriy Trushnikov**
15:40-16:00	**EBW process control on the basis of solving the inverse problem of the keyhole form reconstruction** ***Dimitriy N. Trushnikov, N. M. Krotova and N. M. Musihin*** *Perm National Research Polytechnic University, Perm, Russian Federation*
16:00-16:20	**Simulation of thermal processes at electron-beam welding with beam splitting** ***Tatiana V. Olshanskaya*** *Perm National Research Polytechnic University, Perm, Russian Federation*

16:20-16:30 Coffee break

16:30-16:50	**Hydrodynamic tensions and heat exchange in the weld metal under spatially heterogeneous evaporation conditions at electron beam welding** ***Sergiy P. Sirenko and Vladimir M. Nesterenkov*** *E. O. Paton Electric Welding Institute, Ukraine*
16:50-17:10	**Electron beam welding of thin sheet niobium** ***Igar L. Pobal and Siarhei V. Yurevich*** *Physical-Technical Institute of the National Academy of Sciences of Belarus, Minsk, Belarus welding energy sources, Belarus*

Wednesday poster session
17:10-18:00

PS2	**Sci. secretary: Volodya Dzharov**
1	**Control of modified surface layer thickness in pulsed large – area EB irradiation** ***Akira Okada[1], Togo Shinonaga[1] and Motohiro Inoue[2]*** *1) Okayama University, Okayama, Japan* *2) Sodick Co., Ltd., Yokohama, Japan*
2	**Chemical composition of the weld formation at the high concentrated energy source welding in a vacuum** ***Ekaterina S. Salomatova, Dmiriy N. Trushnikov, Tatiana V. Olshanskaya and Vladimir Ya. Belenkiy*** *Perm National Research Polytechnic University, Perm, Russian Federation*
3	**Dynamic processes in welded seams during welding with high-concentrated power sources** ***Elena M. Fedoseeva and Tatyana V. Olshanskaya*** *Perm National Research Polytechnic University, Perm, Russian Federation*
4	**Fractal geometry in metallurgy of welding and coatings** ***Ekaterina A. Krivonosova, E. K. Krivonosova, D. N. Trushnikov and I. S. Ponomarev*** *Perm National Research Polytechnic University, Perm, Russian Federation*
5	**High strength electron beam brazing of titanium aluminides to dissimilar materials - Evobeam GmbH, Mainz, Germany – Company presentation** ***Matthias Wahl and Stefan Milchev*** *Evobeam GmbH, Mainz, Germany*
6	**Electron beam sintering of copper inks for applications in rapid prototyping and printed electronics** ***Sindy Mosch[1], Robert Jurk[1], Benjamin Graffel[2], Bjoern Meyer[2], Wolfgang Schwarz[2] and Falk Winckler[2]*** *1) Fraunhofer Institute for Ceramic Technologies and Systems, Dresden, Germany* *2) Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology, Dresden, Germany*
7	**Obtaining of pure molybdenum through electron beam melting of scrap materials** ***Vania Vassileva[1], Katia Vutova[1], Maria Naplatanova[1], Nagegownivari Munirathnam and Dinesh Amalnerkar*** *1) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria* *2) Centre for Materials for Electronics Technology, Panchawati, Off Pashan Road, Pune, India* *3) School of Mechanical Engineering, Sungkyunkwan University, Cheoncheon-dong, Jangan-gu, Suwon, Gyeonggi, South Korea*
8	**Electron-beam graft modification of biopolymers for use in the surface water treatment** ***Mirela Braşoveanu, Monica R. Nemţanu, Liliana Flore and Veronica Anca*** *National Institute for Lasers, Plasma and Radiation Physics, Electron Accelerators Laboratory, Bucharest-Magurele, Romania*
9	**Graphical user interface for optimization of starch modified by electron beam irradiation** ***Elena Koleva[1,2,3], Lilyana Koleva[2], Mirela Braşoveanu[4], Monica R. Nemţanu[4], Toni Paneva[2] and Ventzislav Tzotchev[2]*** *1) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria* *2) University of Chemical Technology and Metallurgy, Bulgaria* *3) Technology Centre of Electron Beam and Plasma Technologies and Techniques, Sofia, Bulgaria* *4) National Institute for Lasers, Plasma and Radiation Physics, Electron Accelerators Laboratory, Bucharest-Magurele, Romania*

19:00 **Official conference dinner in a thematic hotel restaurant**

16 June 2016
Thursday

Thursday morning session 1

SS9	**Chairman: Mr. Dmytro Kovalchuk**
9:30-9:50	**Laser welding under reduced pressure** ***Philipp Sieber, Björn Hansen, Thorsten Löwer and Alexander Maaz*** *Pro-beam AG & Co. KGaA, Planegg, Germany*
9:50-10:10	**Testing of the technology of local electron–beam annealing of circular samples from titanium alloy VT8–1 (BT8–1) applied to aircraft engine product – a welded compressor drum** ***Pavel Denysiuk*** *Steigerwald Strahltechnik GmbH, Maisach, Germany*

10:10-10:20 Coffee break

10:20-10:40	**The actual EB application spectrum and its prospects beside welding** ***Björn Hansen and Thorsten Löwer*** *Pro-beam AG & Co. KGaA, Planegg, Germany*
10:40-11:00	**Improved surface properties of nodular cast iron using electron beam remelting and alloying with nickel based additives** ***Anja Buchwalder[1], Norman Klose[1], A. Jung[1] and Rolf Zenker[1,2]*** *1) TU Bergakademie Freiberg, Institute of materials engineering, Germany* *2) Zenker Consult, Mittweida, Germany*

11:00-11:10 Coffee break

Thursday morning session 2

SS10	**Chairman: Prof. Papken Hovsepian**
11:10-11:30	**improving the load capacity of thermal spray coatings on different substrate materials by EB profiling** ***Philipp Hengst[1], Rolf Zenker[1,2], Tilo Süß[3] and Klaus Hoffmann*** *1) TU Bergacademie Freiberg, IWT, Mittweida, Germany* *2) Zenker Consult, Mittweida, Germany* *3) IWB Werkstofftechnologie GmbH, Chemnitz, Germany*

11:30-11:50	**Performance of HIPIMS deposited CrN/NbN nanostructured coatings exposed to 650°C in pure steam environment** ***Papken Eh. Hovsepian[1], A. P. Ehiasarian[1], Y. P. Purandare[1], B. Biswas[1], F. J. Pérez[2], M. I. Lasanta[2], M. T. de Miguel[2], A. Illana[2] and A. Agüero[3]*** *1) UK National Technology HIPIMS Centre, Materials and Engineering Research Institute, Howard Street, Sheffield Hallam University, Sheffield, S1 1WB, United Kingdom* *2) Grupo de Ingeniería de Superficies y Materiales Nanoestructurados. Facultad de Ciencias Químicas. Universidad Complutense de Madrid. 28040 Madrid, Spain* *3) Instituto Nacional de Te´cnica Aeroespacial (INTA), Ctra. Ajalvir Km. 4, 28850 Torrejo´n de Ardoz (Madrid), Spain*

11:50-12:00 Coffee break

12:00-12:20	**Deposition of metallurgical and dielectric coatings by electron beam and comparison with sputtering, and thermal evaporation methods of coating** ***Masud Naraghi, M. Suther, E. Belkof, M. Droney, N. Devchakke, S. Werkmeister and B. Murphy*** *Torr International, New Windsor, New York, USA*
12:20-12:50	**Design, construction and preliminary results of a pulsed electron beam facility for surface modification of materials** ***Masud Naraghi, S. Werkmeister, A. Egorov and N. Devchakke*** *Torr International, New Windsor, New York, USA*

12:50-14:20 **Lunch in any of the hotel restaurants**

Thursday afternoon session 1

SS11	**Chairman: Prof. Nikolai Kuksanov**
14:20-14:40	**Industrial electron accelerators ILU and their applications** ***Alexandr Bryryazgin, V. Bezuglov, A. Vlasov, L. Voronin, M. Korobeynikov, A. Lukin, S. Maksimov, V. Nekhaev, F. Nikonov, A. Panfilov, V. Radchenko, A. Sidorov, V. Tkachenko, B. Faktorovich and E. Shtarklev*** *Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russian Federation*
14:40-15:00	**The development of ELV accelerators for optimization of EB processing of polymers** ***Y. I. Golubenko, Nikolai K. Kuksanov, R. A. Salimov, S. N. Fadeev, P. I. Nemytov, A. I. Korchagin, A. V. Lavruchin, A. V. Semenov, V. G. Cherepkov, D. A. Kogut, E. V. Domarov, D. S. Vorobiev and M. N.Stepanov*** *Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russian Federation*

15:00-15:10 Coffee break

15:10-15:30	**Training students using presentations at meetings in the fields of physics, engineering and technologies** ***Tomomi Tanioka[1], Katia Vutova[2], Masayuki Yamauchi[1], Takeshi Tanaka[1]*** *1) Department of Electronics and Computer Engineering, Hiroshima Institute of Technology, Japan* *2) Institute of electronics, Bulgarian Academy of Sciences, Bulgaria*
15:30-15:50	**Electron spectrometer for electron impact ionization studies in e-COL laboratory** ***Mevlut Dogan and Zehra Nur*** *Department of Physics, e-COL Laboratory, Afyon Kocatepe University, 03200, Afyon, Turkey*

15:50-16:10	**Multi-element cylindrical electron gun systems for focusing and controlling electron beam** ***Mevlut Dogan*** *Department of Physics, e-COL Laboratory, Afyon Kocatepe University, 03200, Afyon, Turkey*
16:10-16:20	**Closing of the official part of the conference**
16:20-20:00	**SPORT EVENTS**

17 June 2016

Friday

9:20 **Excursion with dinner, organized by Orgcommittee**

18 June 2016

Saturday

Departure Day