09:00 - 10:00 Registration

10:00 - 10:30 Opening Ceremony, Conference Hall

Ika Ferer Gotic- CMBEBIH Programme Manager, Editor in chief, N1-CNN

Welcome Speeches

Almir Badnjević – CMBEBIH 2015 Chair
Aljo Mujčić – President of the Scientific Committee of CMBEBIH 2015
Mehmet Uzunoğlu – Rector of International Burch University
Almira Hadžović – Džuvo – Dean of Faculty of Medicine, University of Sarajevo
Mirsada Hukić – Representative of Academy of Sciences and Arts of Bosnia and Herzegovina
Senaid Memić – Mayor of Ilidža Municipality
Ratko Magjarević – President of International Federation for Medical and Biological Engineering (IFMBE)

10:30 - 12:30 Plenary Lectures I, Conference Hall

1. **Ratko Magjarevic, Ph.D. –** *Challenges of Biomedical Engineering – Research, Industrialization, Sustainability*
2. **Leandro Pecchia, Ph.D**. *- Applied Biomedical Signal Processing and Intelligent eHealth for Falls Prediction in the Elderly*
3. **Dejan Milosevic, Ph.D.** *- Attoscience*
4. **Mustafa Kahramanyol, Ph.D.** *- The Gülhane Mastoidectomy*
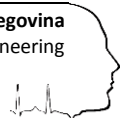5. **Mark Bale, Ph.D.** *- Emerging Technologies and Human Rights: What Are the Challenges?*

13:00 - 13:20 Special Lecture I, Conference Hall

SPL1: Božidar Ferek – Petrić, Ph.D. – MEDTRONIC: *Remote Pacemaker Programming - 15 Years After*

13:30 -14:30 Lunch Break, Burch Restaurant

13:30 – 14:00 Student transfer for Student Workshop to the Faculty of Medicine

14:00 – 15:00 Lunch Break for Students at Faculty of Medicine

15:00 – 20:00 Student's Workshop, Faculty of Medicine

SW1-1: *Testing the Safety of Automated External Defibrilators* – University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia

SW1-2: *Evaluation of repetitive physical exercise using inertial and magnetic sensors* – University of Zagreb, Faculty of Eletrical Engineering and Computing, Zagreb, Croatia

SW1-3: *ERP signal measurement and processing* – University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia

SW1-4: *ZigBee wireless communication protocol and comparison with affined standards commonly used in body sensor networks* – University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia

SW1-5: *Software differentiation of occurrence of acute myocardial infarction and display of its localization* – University of Sarajevo, Faculty of Electrical Engineering and Faculty of Medicine, Sarajevo, Bosnia and Herzegovina

14:30 - 16:00 Plenary Session I, Sarajevo Room (207)

BIOMEDICAL SIGNAL PROCESSING

*Chairs: **Leandro Pechia**, University of Warvick (UK)**, Dusanka Boskovic,** University of Sarajevo (Bosnia and Herzegovina)*

S1-1: *Investigation of Heart Rate Variability using Wavelet Packet Transform in Major Depressive Disorder,* Akar S.A, Kara S, Bilgiç V.

S1-2: *Theoretical and Experimental UV-Vis Spectroscopic Analysis Of Chamazulene,* Salihovic M, Sapcanin A.

S1-3: *Sleep stage classification using AR Burg and C4.5 classifier* Arnaut N, Subasi A.

S1-4: *EEG verified diagnosis of epilepsy using Hilbert Huang transform,* Ibric S, Avdakovic S, Omerhodzic I, Suljanovic N, Mujcic A.

S1-5: *Surface EMG pattern recognitionby using DWT feature extraction and SVMclassifier,* Podrug E.

14:30-16:00 Plenary Session II, Motive Room (208)

BIOMEDICAL IMAGING AND IMAGE PROCESSING

Chairs: **Adnan Beganovic,** *University Clinical Centre Sarajevo (Bosnia and Herzegovina),* **Haris Huseinagic,** *University of Tuzla (Bosnia and Herzegovina)*

S2-1: *Three Dimensional Airway Tree Segmentation from Computed Tomography Lung Images,* Mesanovic N, Huseinagic H, Smajic E.

S2-2: *Texture-based automatic polyp detection in colonoscopy videos,* Avramovic A, Sevo I.

S2-3: *Three-dimensional rotational angiography in the control of the results of endovascular coiling of intracranial aneurysms,* Huseinagic H, Moranjkic M, Mesanovic N.

S2-4: *RTG diagnostics in paediatric infirmary,* Begic N, Begic Z, Begic E, Dobraca A, Mandzuka M.

S2-5: *Fractal Analysis of Digital Mammograms,* Đedović E, Gazibegović-Busuladžić A, Beganović A.

16:00-16:30 Coffee Break

16:30-18:00 Plenary Session III, Sarajevo Room (207)

BIOSENSORS AND BIOINSTRUMENTATION

Chairs: **Mustafa Busuladzic,** *University of Sarajevo (Bosnia and Herzegovina),* **Almir Badnjevic** *Verification Laboratory VERLAB (Bosnia and Herzegovina)*

S3-1: *Metamaterial Absorber Based Biosensor Applications,* Karaaslan M, Dincer F, Bakir M, Unal E, Delihacioglu K, Ozer Z, Akgol O, Sabah C.

S3-2: *Biosensor Application by Using Gammadion Shaped Chiral Metamaterials,* Karaaslan M, Bakir M, Dincer F, Unal E, Delihacioglu K, Ozer Z, Akgol O, Sabah C.

S3-3: *A virtual environment to test and validate model based insulin infusion therapies,* Smajlagic D, Palumbo P.

S3-4: *Adjustment of quantification of catecholamines and their metabolites in biological samples using the Shimadzu LCSOL SINGLE-LC EN HPLC system with electro- chemical detection,* Ibragic S, Sofic E.

S3-5: *A polymer-based, optical biosensor chip for detection of microbial leucine aminopetidase (LAP) activity and its potential as a novel, medical diagnostic test,* Ibrisimovic-Mehmedinovic N, Ibrisimovic M, Kesic A.

16:30-18:00 Plenary Session IV, Motive Room (208)
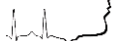
BIOSENSORS, BIOINSTRUMENTATION AND BIOMATERIALS

Chairs: **Enisa Omanovic-Miklicanin,** *University of Sarajevo (Bosnia and Herzegovina),* **Elma Feric,** *International Burch University (Bosnia and Herzegovina)*

S4-1: *Conducting Polymer Based Efficient Surface Design for the Detection of Cholesterol,* Soylemez S, Udum Y.A, Kesik M, Gündoğdu Hızlıateş C, Ergun Y, Toppare L.

S4-2: *Practices the different cells types like target genotoxic endpoint in micronucleus assey,* Velickova N, Milev M, Nedeljkovik B, Gorgieva P.

S4-3: *Bioelastic extramedullary bone osteosynthesis in locomotor surgery,* Hadziahmetovic Z, Vavra Hadziahmetovic N.

22:00 – 02:00 Student Party at CLUB JEZ

09:00 – 10:30 Plenary lectures II, Conference Hall

1. **Werner Mantele, Ph.D. -** *Spectroscopists do it with Light: Development of Optical Sensors for Medical Applications*
2. **Dragan Primorac, Ph.D.** *- Personalised Medicine: Myth or Reality*
3. **Herve Liebgott, Ph.D.** *- Ultrasound Advanced Imaging: beyond anatomy*
4. **Damir Marjanovic, Ph.D. -** *Automation of the Forensic*

10:30 – 11:30 Coffee Break and Poster session

Chairs: **Ratko Magjarevic**, University of Zagreb (Croatia), **Igor Lackovic**, University of Zagreb

P1: *Analysis of proteins with IR spectroscopy*
Authors: Dzafic E, Mantele W.

P2: *The Impact of PET Reconstruction Parameters on SUV values*
Authors: Skopljak-Beganovic A, Beganovic A, Gazdic-Santic M, Drljevic A.

P3: *Four-dimensional computer tomography: a review*
Author: Rovcanin B.

P4: *Development of a New Amperometric Sensor for Adrenaline Based on the Carbon Electrode Modified with Ru(III) Complex*
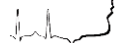Authors: Redzic S, Kahrovic E, Turkusic E.

P5: *Selenium Containing Conducting Polymer Based Pyranose Oxidase Biosensor for Glucose Detection*
Authors: Gokoglan T.C, Soylemez S, Kesik M, Toksabay S, Toppare L.

P6: *Synhesis of Graphene Layers for biomedical applications*
Authors: Satilmis H, Yildiz B, Tanis Y.E, Unlu C.G, Ozmen Y.

P7: *Stem Cells and plastic surgery – Future and Perspectives*
Authors: Jakirlic M, Dujso V.

P8: *Stem cells of bone marrow - isolation and cultivation*
Authors: Redzic I, Aljicevic M.

P9: *Laser – induced nonlinear processes in molecules*
Authors: Habibovic D, Hasovic E, Gazibegovic-Busuladzic A, Odzak S, Cerkic A, Busuladzic M, Milosevic D.B.

P10: *Teaching Physical Aspects of Medical Imaging Techniques*
Authors: Kiseljakovic M, Sotonica M, Ejubovic M, Fatic V, Omerbasic A, Dalipagic S, Zoranovic D, Muharemovic Z, Busuladzic M.

P11: *3D technology in the manufacture of a medicament forms with controlled – release*
Authors: Maleskic E, Maleskic S, Dedic M.

P12: *Application of nano-drugs in cancer therapy*
Authors: Ziga N, Dobraca A, Becic F, Cordalija V, Dedic M.

P13: *Evaluation of xenoestrogenic effects of organic UV filters*
Authors: Imamovic B, Dujic T, Malenica M, Becic E, Dedic M

P14: *In silico models to predict the absorption, distribution, metabolism, elimination and toxicity of drugs*
Authors: Mujkic S, Vojinovic T, Smajovic A.

P15: *Determination influence of inhibiting platinum acid on the activity of catalase*
Authors: Herenda S, Ostojic J, Klepo L, Galic B.

P16: *Determination of Body Surface Area Using the Mathematical Harmony*
Authors: Omerbašić A, Šečić D, Muharemović Z, Musuladžić M.

P17: *Nanoparticles as bioactive nanocarriers for cancer therapy*
Authors: Vranic E, Rahic O, Hadziabdic J, Elezovic A, Boskovic D.

P18: *New advances in human skin subtitles*
Authors: Vranic E, Grizic D, Lamprecht A.

P19: *The future of Healthcare: Nanomedicine and Internet Nano Things*
Authors:Omanovic-Miklicanin E, Maksimovic M, Vujovic V.

P20: *Determination of gender and age specific differences in total iron levels in human serum using a spectrophotometric method*
Authors: Tahirovic I, Boloban A, Ibragic S, Dzudzevic-Cancar H, Toromanovic J, Lepara O, Ajanovic A, Dizdar M.

P21: *Promising tissue engineering approaches using biodegradable poly (D,L-lactic-co-glycolic acid) scaffolds,* Grizic D, Vranic E, Lamprecht A.

11:30 – 13:30 Plenary lectures III, Conference Hall

1. **Yves Lemoigne, Ph.D. -** *7 years of high-level education in Medical Physics for Eastern Europe*

2. **Mario Medvedec, Ph.D. -** *Vision and Provision of Clinical Engineering Division - CED/IFMBE*
3. **Atilla Aydinli, Ph.D.-** *Advances in Plasmonic Detection: Plexcitonic Crystals*
4. **Zijad Dzemic, M.S. -** *National metrology institute for Quality of life*

13:30 -14:30 Lunch Break, Burch restaurant

13:30 – 14:00 Student transfer for Student Workshop to the Faculty of Medicine

14:00 – 15:00 Lunch Break for Students at Faculty of Medicine

15:00 – 20:00 Student's Workshop, Faculty of Medicine

SW2-1: *Novel biomedical engineering applications for the teaching of various STEM subjects* – University of Warwick, United Kingdom

SW2-2: *Illustrating Genetic Variation through DNA Analysis* **–** International Burch University, Sarajevo, Bosnia and Herzegovina

SW2-3: *The system for monitoring patients in physical therapy* – University of Sarajevo, Faculty of Electrical Engineering and Faculty of Medicine, Sarajevo, Bosnia and Herzegovina

SW2-4: *Neural networks as a basis for the design of smart drugs* – University of Sarajevo, Faculty of Electrical Engineering and Faculty of Pharmacy, Sarajevo, Bosnia and Herzegovina

14:30-16:00 Plenary Session V, Sarajevo Room (207)

BIOMECHANICS, ROBOTICS AND MINIMALLY INVASIVE SURGERY

Chairs: Elmedin Mesic, University of Sarajevo (Bosnia and Herzegovina), **Ibrahim Omerhodzic,** University Clinical Centre (Bosnia and Herzegovina)

S5-1: *The computer modelling and biomechanical analysis of musculoskeletal systems in The AnyBody Modeling System,* Spahic D, Karac A.

S5-2: *Analysis of sub-cerebellar regions in patients with Chiari Malformations,* Akar E, Kara S, Akdemir H, Kırış A.

S5-3: *Numerical and experimental stress analysis of an external fixation system,* Mesic E, Avdic V, Pervan N.

S5-4: *Sensory re-education after median and ulnar nerve repair,* Jakirlic M, Dujso V, Omerhodzic I.

S5-5*: Analysis of signals collected by intraoperative neuromonitoring procedure during the neurosurgical operation of patients with complex intramedullary spinal cord tumors,* Omerhodžić I, Zahirović S, Avdaković S, Hodžić H, Vardo A, Bišćević M, Drnda S, Adilović A, Badnjević A.

14:30-16:00 Plenary Session VI, Motive Room (208)

CARDIOVASCULAR, RESPIRATORY AND ENDOCRINE SYSTEMS ENGINEERING

Chairs: **Lejla Divovic-Mustafic,** University Clinical Centre (Bosnia and Herzegovina), **Alma Badnjevic-Cengic,** Canton Hospital Zenica (Bosnia and Herzegovina)

S6-1: *Treatment of iatrogenic dissection of the left subclavian artery,* Huseinagic H, Jaganjac S, Moranjkic M, Mesanovic N.

S6-2: *Evaluation of the amount of used OnyX,* Huseinagic H, Moranjkic M, Mesanovic N, Ademovic Z, Begic A.

S6-3: *Comparation of postoperative outcomes within patients treated with different stent types,* Divovic Mustafic L, Kulic M.A.

S6-4: *Heart rate variability in assessment of autonomic nervous system function in preoperative period,* Omerbegovic M, Ferhatovic M.

S6-5: *Evaluation of factors that influence the occurrence of early hypothyroidism following radioactive iodine treatment in thyrotoxicosis,* Dzubur M, Kucukalic - Selimovic E, Dzubur-Aganovic M, Bahtic A, Begic E, Hrvo S.

S6-6: *Serum nitric oxide levels in patients with acute myocardial infarction with ST elevation (STEMI),* Badnjević – Cengic A, Kovacevic P, Badnjevic A, Gurbeta L, Hasanefendic B.

16:00-16:30 Coffee Break

16:30-18:00 Plenary Session VII, Sarajevo Room (207)

MOLECULAR, CELLULAR AND TISSUE ENGINEERING

Chairs: **Damir Marjanovic,** *International Burch University (Bosnia and Herzegovina),* **Radivoj Jadric,** *University of Sarajevo (Bosnia and Herzegovina),* **Emina Cengic Kiseljakovic**, *University of Sarajevo (Bosnia and Herzegovina)*

S7-1: *User verification for hemoglobin a1c on cobas 501 roche analyzer,* Kucukalic E, Coric J, Hasanefendic B, Mujic J, Curovic L, Bodulovic A.

S7-2: *Raman chemical imaging of collagen-based biomineralized composits,* Masic A.

S7-3: *Stem cell technology,* Balkaya H.

S7-4: *Transcutaneous elestrical nerve stimulation in the treatment of lumbar pain syndrome*, Miladinovic K, Vavra-Hadziahmetovic N.

16:30-18:00 Plenary Session VIII, Motive Room (208)

CLINICAL ENGINEERING AND HEALTH TECHNOLOGY ASSESSMENT

*Chairs: **Leandro Pecchia,** University of Warvick (UK), **Mario Medvedec,** University of Zagreb (Croatia)*

S8-1: *Continuous ECG holter monitoring in child age,* Begic Z, Mesihovic Dinarevic S, Kadic A, Halimic M.

S8-2: *Internal exposure arising from intravenous administration of F-18 fluorodeoxyglucose,* Beganovic A, Modronja M, Odzak S, Skopljak-Beganovic A, Gazdic-Santic M.

S8-3: *Determination possibility of skin distance focus by using camera in order of verification patient's position in radiotherapy,* Fazlic S, Osmic H, Osmic J.

S8-4: *From regenerative dentistry to regenerative medicine: potential of oral stem cells,* Porovic S, Jurisic S, Juric H.

S8-5: *The role of endoscopic capsule in finding the cause of gastrointestinal bleeding,* Zubcevic N, Zubcevic S, Mesihovic R, Vanis N, Puhalovic A, Pilav A.

18:00-19:00 Special Workshop II, USA Room (206)

SPW2: DEVLOGIC - *Software Development in Biomedical Engineering*

20:00-00:00 Conference Dinner at RESTAURANT PIVNICA SARAJEVO

09:00-10:30 Plenary Session IX, Sarajevo Room (207)

HEALTH INFORMATICS, E-HEALTH AND TELEMEDICINE I

Chairs: **Adnan Salihbegovic,** *University of Sarajevo (Bosnia and Herzegovina),* **Aljo Mujcic**, *University of Tuzla (Bosnia and Herzegovina)*

S9-1: *Data mining, processing and web –based ECG signal imaging* **,** Zunic E, Zunic B.

S9-2: *Software solution in differantion and treatment of acid-base disorders*, Begic E, Mandzuka M, Begic Z, Boskovic D, Masic I.

S9-3: *Development of domain specific language and IDE for Internet of Things applications in remote patient monitoring,* Salihbegovic A, Kaljic E, Eterovic T, Ribic S.

S9-4: *IoT Wireless Sensor Networks for Healthcare Applications,* Ugrenovic D, Gardasevic G, Golic D, Gazdic V.

S9-5: *Internet of Thing for health care – new level "smart" of health care services,* Macinkovic D.

S9-6: Nav1.7 Expression in adult mouse sensory neurons, Feric E, Gingras J, McDermott J

09:00-10:30 Plenary Session X, Motive Room (208)

HEALTH INFORMATICS, E-HEALTH AND TELEMEDICINE II

Chairs: **Edin Skaljo,** *University of Sarajevo (Bosnia and Herzegovina),* **Alma Secerbegovic,** *University of Tuzla (Bosnia and Herzegovina)*

S10-1: *Smartphone-based remote health monitoring: opportunities and challenges,* Secerbegovic A, Suljanovic N, Mujcic A.

S10-2: *Comparison of Bioinformatics Web-Tools for Prediction of G-quadruplexes,* Jasarevic F, Doluca O.

S10-3: *Overview for computer aided detection of aortic diseases,* Smajic E, Mesanovic N.

S10-4: *High frequence technology in telemedicine services,* Skaljo E, Hodzic M, Mujcic A.

10:30-11:00 Coffee break

11:00-12:30 Plenary Session XI, Sarajevo Room (207)

BIOMEDICAL ENGINEERING EDUCATION

*Chairs: **Radovan Stojanovic**, University of Podgorica (Montenegro), **Dusanka Boskovic**, University of Sarajevo (Bosnia and Herzegovina)*

S11-1: *Opportunities and Challenges in Biomedical Engineering Education,* Boskovic D, Badnjevic A.

S11-2: *Turning the Challenge into Opportunity – A Strategic Framework for the Biomedical Engineering Development in Bosnia and Herzegovina,* Mustoo S, Gurbeta L.

S11-3: *Measurement in medicine – Past, present, future,* Badnjevic A, Gurbeta L, Boskovic D, Dzemic Z.

S11-4: *Alternative approach to addressing infrastructure needs in biomedical engineering programs (Case of emerging economies),* R. Stojanovic, A. Caplanova, Z. Kovacevic, N. Filipovic, Z. Bundalo

S11-5: *Pediatric dilemmas in using modern biotechnologies,* Zubcevic S.

11:00-12:30 Plenary Session XII, Motive Room (208)

PHARMACEUTICAL ENGINEERING

*Chairs: **Hurija Dzudzevic - Cancar**, University of Sarajevo (Bosnia and Herzegovina), **Fahir Becic**, University of Sarajevo (Bosnia and Herzegovina)*

S12-1: *Pharmaceutical engineering,* Mehovic S, Dedic M, Jordamovic N.

S12-2: *In vitro models to determine the pharmacokinetic parameters,* Pehlivanovic B.

S12-3: *Drug design,* Maleskic E, Dedic M, Becic F.

S12-4: *Usage of neuron circles in drug development,* Haseljic N, Smajovic A.

S12-5: *Detection of non-esterified fatty acids in plasma samples in diabetes management,* Mandal S, Causevic A, Semiz S.

11:00-12:30 Plenary Session XIII, USA Room(206)

STUDENT PAPERS

Chairs: **Aljo Mujcic,** *University of Tuzla (Bosnia and Herzegovina),* **Mirza Dedic,** *University of Sarajevo (Bosnia and Herzegovina),* **Ibrahim Omerhodzic**, *University Clinical Centre Sarajevo (Bosnia and Herzegovina)*

S13-1: *The validation of smartphone's built-in cameras for heart rate extraction,* Nišić J, Beganović N, Zaimović E, Goletić L, Hujdur E, Šećerbegović A.

S13-2: *Non-contact video-based heart rate and heart rate variability extraction from different body regions,* Alic A, Bajric B, Hodzic A, Kameric O, Basic A, Secerbegovic A.

S13-3: *Radioiodine therapy of differentiated thyroid cancer* **,** Kaimovic S, Hairlahovic A.

S13-4: *BioEcomat (BEC) Machine for recycling biotech drugs,* Sijerčić A.

S13-5: *AC and DC Coupling of Electrocardiograph in Mobile Monitoring,* Jurić D, Akšamović A

S13-6: *Localization and 2D imaging of ST elevation myocardial infarction using software differentiation,* Huskic V, Vardo A, Begic E, Hrvat E, Gurbeta L, Dzubur M, Badnjevic A, Dajic A, Kadic A.

S13-**7: -***Possibbilities of applying stem cells to treat MS. Parkinson,* Mali G
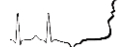
12:30-13:30 Closing Ceremony, Conference Hall

PROGRAME AT A GLANCE

Program of the 1th Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), Sarajevo, from 13th to 15th March 2015.

From	To	FRIDAY 13 March 2015	From	To	SATURDAY 14 March 2105	From	To	SUNDAY 15. MARCH 2015
9:00	9:30	Registration	9:00	9:30	PL2	9:00	9:30	S9 / S10
9:30	10:00		9:30	10:00		9:30	10:00	
10:00	10:30	Opening Ceremony	10:00	10:30		10:00	10:30	
10:30	11:00	PL1	10:30	11:00	Coffe Break- Poster Session	10:30	11:00	Coffee Break
11:00	11:30		11:00	11:30		11:00	11:30	
11:30	12:00		11:30	12:00	PL3	11:30	12:00	S11 / S12 / S13
12:00	12:30		12:00	12:30		12:00	12:30	
12:30	13:00	SPL1	12:30	13:00		12:30	13:00	Closing Ceremony
13:00	13:30		13:00	13:30	SPL2	13:00	13:30	
13:30	14:00	Lunch Break	13:30	14:00	Lunch Break	13:30	14:00	
14:00	14:30		14:00	14:30		14:00	14:30	
14:30	15:00	Student Workshop at Medical Faculty / S1 / S2	14:30	15:00	Student Workshop at Medical Faculty / S5 / S6	14:30	15:00	
15:00	15:30		15:00	15:30		15:00	15:30	
15:30	16:00		15:30	16:00		15:30	16:00	
16:00	16:30	Coffee Break	16:00	16:30	Coffee Break	16:00	16:30	
16:30	17:00	S3 / S4	16:30	17:00	S7 / S8	16:30	17:00	
17:00	17:30		17:00	17:30		17:00	17:30	
17:30	18:00		17:30	18:00		17:30	18:00	
18:00	18:30		18:00	18:30	SPW2	18:00	18:30	
18:30	19:00		18:30	19:00		18:30	19:00	
19:00	19:30		19:00	19:30		19:00	19:30	
19:30	20:00		19:30	20:00		19:30	20:00	
20:00	20:30		20:00	20:30	Conference Dinner	20:00	20:30	
20:30	21:00		20:30	21:00		20:30	21:00	
21:00	21:30		21:00	21:30		21:00	21:30	
21:30	22:00		21:30	22:00		21:30	22:00	
22:00	23:00	Student Party	22:00	23:00		22:00	23:00	
23:00	0:00		23:00	0:00		23:00	0:00	
0:00	1:00		0:00	1:00		0:00	1:00	
1:00	2:00		1:00	2:00		1:00	2:00	

S1	BIOMEDICAL SIGNAL PROCESSING	PL1-1	Challenges of Biomedical Engineering – Research, Industrialization, Sustainability
S2	BIOMEDICAL IMAGING AND IMAGE PROCESSING	PL1-2	Applied Biomedical Signal Processing and Intelligent eHealth for falls prediction in the elderly
S3	BIOSENSORS AND BIOINSTRUMENTATION	PL1-3	Personalised medicine: myth or reality
S4	BIOSENSORS, BIOINSTRUMENTATION AND BIOMATERIALS	PL1-4	The Gülhane Mastoidectomy
S5	BIOMECHANICS, ROBOTICS AND MINIMALLY INVASIVE SURGERY	PL1-5	Emerging technologies and human rights: what are the challenges?
S6	CARDIOVASCULAR, RESPIRATORY AND ENDOCRINE SYSTEMS ENGINEERING	PL2-1	Spectroscopists do it with Light: Development of Optical Sensors for Medical Applications
S7	MOLECULAR, CELLULAR AND TISSUE ENGINEERING	PL2-2	Attoscience
S8	CLINICAL ENGINEERING AND HEALTH TECHNOLOGY ASSESSMENT	PL2-3	Ultrasound advanced imaging: beyond anatomy
S9	HEALTH INFORMATICS, E-HEALTH AND TELEMEDICINE I	PL2-4	Automation of the Forensic DNA Analysis Procedures: Advantages and Challenges
S10	HEALTH INFORMATICS, E-HEALTH AND TELEMEDICINE II	PL2-5	17 years of high-level education in Medical Physics for Eastern Europe
S11	BIOMEDICAL ENGINEERING EDUCATION	PL3-1	Vision and Provision of Clinical Engineering Division - CED/IFMBE
S12	PHARMACEUTICAL ENGINEERING	PL3-2	Advances in Plasmonic Detection: Plexcitonic Crystals
S13	STUDENT SESSION	PL3-3	National metrology institute for Quality of life

PROGRAM – DAY 1 – FRIDAY 13 March 2015

FRIDAY 13 March 2015	From	To
Registration	9:00	9:30
Registration	9:30	10:00
Opening Ceremony	10:00	10:30
PL1	10:30	11:00
PL1	11:00	11:30
PL1	11:30	12:00
PL1	12:00	12:30
SPL1	12:30	13:00
SPL1	13:00	13:30
Lunch Break	13:30	14:00
Lunch Break	14:00	14:30
S1 / S2	14:30	15:00
S1 / S2	15:00	15:30
S1 / S2	15:30	16:00
Coffee Break	16:00	16:30
S3 / S4	16:30	17:00
S3 / S4	17:00	17:30
S3 / S4	17:30	18:00
	18:00	18:30
	18:30	19:00
	19:00	19:30
	19:30	20:00
	20:00	20:30
	20:30	21:00
	21:00	21:30
	21:30	22:00
Student Party	22:00	23:00
Student Party	23:00	0:00
Student Party	0:00	1:00
Student Party	1:00	2:00

(Left column, spanning S1–S3 rows: Student Workshop at Medical Faculty)

S1	BIOMEDICAL SIGNAL PROCESSING
S2	BIOMEDICAL IMAGING AND IMAGE PROCESSING
S3	BIOSENSORS AND BIOINSTRUMENTATION
S4	BIOSENSORS, BIOINSTRUMENTATION AND BIOMATERIALS

PL1-1	Challenges of Biomedical Engineering – Research, Industrialization, Sustainability
PL1-2	Applied Biomedical Signal Processing and Intelligent eHealth for falls prediction in the elderly
PL1-3	Personalised medicine: myth or reality
PL1-4	The Gülhane Mastoidectomy
PL1-5	Emerging technologies and human rights: what are the challenges?

PROGRAM – DAY 2 – SATURDAY 14 March 2015

SATURDAY 14 March 2105	From	To
PL2	9:00	9:30
PL2	9:30	10:00
PL2	10:00	10:30
Coffe Break- Poster Session	10:30	11:00
Coffe Break- Poster Session	11:00	11:30
PL3	11:30	12:00
PL3	12:00	12:30
PL3	12:30	13:00
SPL2	13:00	13:30
Lunch Break	13:30	14:00
Lunch Break	14:00	14:30
Student Workshop at Medical Faculty / S5 / S6	14:30	15:00
Student Workshop at Medical Faculty / S5 / S6	15:00	15:30
Student Workshop at Medical Faculty / S5 / S6	15:30	16:00
Coffee Break	16:00	16:30
Student Workshop at Medical Faculty / S7 / S8	16:30	17:00
Student Workshop at Medical Faculty / S7 / S8	17:00	17:30
Student Workshop at Medical Faculty / S7 / S8	17:30	18:00
SPW2	18:00	18:30
SPW2	18:30	19:00
	19:00	19:30
	19:30	20:00
Conference Dinner	20:00	20:30
Conference Dinner	20:30	21:00
Conference Dinner	21:00	21:30
Conference Dinner	21:30	22:00
Conference Dinner	22:00	23:00
Conference Dinner	23:00	0:00
	0:00	1:00
	1:00	2:00

S5	BIOMECHANICS, ROBOTICS AND MINIMALLY INVASIVE SURGERY
S6	CARDIOVASCULAR, RESPIRATORY AND ENDOCRINE SYSTEMS ENGINEERING
S7	MOLECULAR, CELLULAR AND TISSUE ENGINEERING
S8	CLINICAL ENGINEERING AND HEALTH TECHNOLOGY ASSESSMENT

PL2-1	Spectroscopists do it with Light: Development of Optical Sensors for Medical Applications
PL2-2	Attoscience
PL2-3	Ultrasound advanced imaging: beyond anatomy
PL2-4	Automation of the Forensic DNA Analysis Procedures: Advantages and Challenges
PL2-5	17 years of high-level education in Medical Physics for Eastern Europe
PL3-1	Vision and Provision of Clinical Engineering Division - CED/IFMBE
PL3-2	Advances in Plasmonic Detection: Plexcitonic Crystals
PL3-3	National metrology institute for Quality of life

PROGRAM – DAY 3 – SUNDAY 15 March 2015

From	To	SUNDAY 15. MARCH 2015
9:00	9:30	S9 · S10
9:30	10:00	
10:00	10:30	
10:30	11:00	Coffee Break
11:00	11:30	S11 · S12 · S13
11:30	12:00	
12:00	12:30	
12:30	13:00	Closing Ceremony
13:00	13:30	
13:30	14:00	
14:00	14:30	
14:30	15:00	
15:00	15:30	
15:30	16:00	
16:00	16:30	
16:30	17:00	
17:00	17:30	
17:30	18:00	
18:00	18:30	
18:30	19:00	
19:00	19:30	
19:30	20:00	
20:00	20:30	
20:30	21:00	
21:00	21:30	
21:30	22:00	
22:00	23:00	
23:00	0:00	
0:00	1:00	
1:00	2:00	

S9	HEALTH INFORMATICS, E-HEALTH AND TELEMEDICINE I
S10	HEALTH INFORMATICS, E-HEALTH AND TELEMEDICINE II
S11	BIOMEDICAL ENGINEERING EDUCATION
S12	PHARMACEUTICAL ENGINEERING
S13	STUDENT SESSION