Tentative Program

7th Euro Biosensors and Bioelectronics Conference

July 10-11, 2017  Berlin Germany

Theme: “Exploring the Fusion of biological components with electrical & physicochemical devices”

**For Available Speaker Slots**
eurobiosensors@conferenceseries.net

19+ Interactive Sessions  15+ Keynote Lectures  75+ Plenary Lectures  5+ Workshops

Conference Secretariat
2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA
Email: eurobiosensors@conferenceseries.net

http://biosensors.conferenceseries.com/europe/
# 7th Euro
## Biosensors and Bioelectronics Conference
### July 10-11, 2017  Berlin Germany

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<th>Day 1</th>
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<th>Session 1</th>
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<tr>
<td>08.00-09.00</td>
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<td>General Session</td>
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<td>09.00-09.15</td>
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<td>Inaugural Address</td>
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<td>09.15-09.45</td>
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<td>Keynote/Plenary Talk 1</td>
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<td>09.45-10.15</td>
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<td>Keynote/Plenary Talk 2</td>
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<td>10.15-10.45</td>
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<td>Keynote/Plenary Talk 3</td>
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<tr>
<td>11.00-12.40</td>
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<td>Biosensors (5 slots available with 20 mins each)</td>
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<tr>
<td>13.30-15.30</td>
<td></td>
<td>Bioinstrumentation and Equipments</td>
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<tr>
<td>15.45-17.25</td>
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<td>Workshop slot available</td>
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<table>
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<tr>
<th>Day 2</th>
<th>Time</th>
<th>Session 1</th>
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<tr>
<td>09.00-10.40</td>
<td></td>
<td>Keynote Forum</td>
<td>Bio-MEMS/NEMS</td>
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<td>10.55-12.35</td>
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<td>Biosensor Applications</td>
<td>Bioelectronics</td>
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<td>13.25-15.05</td>
<td></td>
<td>Biosensing Technologies</td>
<td>Biochips &amp; Nucleic Acid Sensors</td>
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<td>15.05-15.20</td>
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<td>Coffee/Tea Break 15.05-15.20 (Networking)</td>
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<tr>
<td>15.20-17.00</td>
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<td>Biosensors for Imaging</td>
<td>Nanotechnology in Biosensors</td>
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</table>
### Tentative Scientific Program

**NOTE: Program Schedule is subject to change with final allotment of the speaker slots**

Speaker opportunities available, submit your abstract online @ http://biosensors.conferenceseries.com/europe/abstract-submission.php

<table>
<thead>
<tr>
<th>Keynote Forum</th>
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| **Title:** Recent and upcoming potential spacecraft missions requiring biosensor technologies: Current examples, what are we looking for and remaining challenges  
Terry J. Hendricks, NASA-Jet Propulsion Laboratory/California Institute of Technology, USA |
| **Title:** New ultrasensitive BDD-biosensor for influenza virus detection  
Dawid Nidzworski, SensDx Ltd, Poland |
| **Title:** A new optical high-resolution three-axis sensor for navigation of medical devices  
Christian Baumgartner, Graz University of Technology, Austria |

<table>
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<tr>
<th>Few Keynote Speaker Slot Available</th>
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<tbody>
<tr>
<td><strong>Renowned Speakers</strong></td>
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</table>
| **Title:** Recent and upcoming potential spacecraft missions requiring biosensor technologies: Current examples, what are we looking for and remaining challenges  
Terry J. Hendricks, NASA-Jet Propulsion Laboratory/California Institute of Technology, USA |
| **Title:** New ultrasensitive BDD-biosensor for influenza virus detection  
Dawid Nidzworski, SensDx Ltd, Poland |
| **Title:** A new optical high-resolution three-axis sensor for navigation of medical devices  
Christian Baumgartner, Graz University of Technology, Austria |

| **Title:** Microfluidic systems for pharma technology - the manipulation of cells, droplets and particles  
Andreas Dietzel, Center for Pharmaceutical Engineering (PVZ), Germany |
| **Title:** Why magnetic sensing can be a useful method for in-vitro cell diagnostics  
Oliver Hayden, Siemens Healthcare, Germany |
| **Title:** Establishing gene expression for early and high-throughput prediction of the hematological acute radiation syndrome  
Michael Abend, Bundeswehr Institute of Radiobiology, Germany |
| **Title:** Multi-Pores. Controlling and measuring the flow of charged species through tunable nanopores producing a rapid, multiplex assay  
Mark Platt, Loughborough University, UK |
| **Title:** Secure accuracy at increase precision of AFM-probe integrated biosensor  
Sarmiza Elena Stanca, Leibniz Institute of Photonic Technology, Germany |
| **Title:** An electrical model for silicon-nanowire electrodes in intracellular signal measurement in biological environments  
Alex Hariz, University of South Australia, Australia |
| **Title:** Novel approach for multiplex detection of antibiotic residues in milk by means of electrochemical biosensors  
Valérie Gaudin, ANSES-Laboratory of Fougères, France |
| **Title:** Point-of-care nanosensor applied to diagnosis of high morbimortality diseases  
Rosa F Dutra, Federal University of Pernambuco, Brazil |
| **Title:** Three types of nanostructure platforms for plasmonics detection of target molecules on a solid surface or in a complex medium  
Hiroyuki Takei, Toyo University, Japan |
| **Title:** Microfluidic Chip Ionization Source coupling with Mass Spectrometry  
Xiaohao Wang, Tsinghua-Berkeley Shenzhen Institute, China |
| **Title:** DNA directed immobilization as a tool for design of porous Si based biosensors  
Giorgi Shtenberg, Agricultural Research Organization, Volcani Center, Israel |
| **Title:** Bi12GeO20 Faraday crystal application in magnetic field measurement  
Slobodan J Petricevic, University of Belgrade, Serbia |
| **Title:** Closed solid state nanopore array - A unique device for ultrasensitive label free impedance biosensors  
Chirasree Roy Chaudhuri, Indian Institute of Engineering Science and Technology (IIEST), India |
| **Title:** Electrochemical DNA based biosensors for selective determination of some neurotransmitters  
Anton Alexandru Ciucu, University of Bucharest, Romania |
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Fabrication of fluidic-based memristor sensor for dengue virus detection</td>
<td>Asrulnizam Abd Manaf, Collaborative Microelectronic Design Excellence Center (CEDEC), Malaysia</td>
<td>Malaysia</td>
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<tr>
<td>Laser-based fabrication of an electro stimulator device for cardiac cells stimulation</td>
<td>Daniel Nieto, University of Santiago de Compostela, Spain</td>
<td>Spain</td>
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<tr>
<td>A novel optical bioassay for the detection of pesticides in marine environment exploiting an array of green photosynthetic microalgae</td>
<td>Laura Moro, Biosensor Srl, Italy</td>
<td>Italy</td>
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<tr>
<td>Self-assembled polymeric nanoparticles as new, smart contrast agents for cancer early detection using magnetic resonance imaging</td>
<td>Fouzi Mouffouk, Kuwait University, Kuwait</td>
<td>Kuwait</td>
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<tr>
<td>An overview of conducting polymers based biosensors</td>
<td>M V Sangaranarayanan, Indian Institute of Technology Madras, India</td>
<td>India</td>
</tr>
<tr>
<td>Dynamical behavior of micro-electromechanical systems powered by bio-inspired electronic circuits</td>
<td>Paul Woafo, Vrije Universiteit Brussel, Belgium</td>
<td>Belgium</td>
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<tr>
<td>Detection of gold nanoparticles aggregation growth induced by nucleic acid through laser scanning confocal microscopy</td>
<td>Ramla Gary, University of Calabria, Italy</td>
<td>Italy</td>
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<tr>
<td>Water bodies pollutants screening by nanostructured optical biosensors</td>
<td>Giorgi Shtenberg, Agricultural Research Organization, Volcani Center, Israel</td>
<td>Israel</td>
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<tr>
<td>Extreme sensitivity biosensing platform based on hyperbolic metamaterials</td>
<td>Giuseppe Stranghi, Case Western Reserve University, USA</td>
<td>USA</td>
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<tr>
<td>In vitro evolution to adapt antibodies to technical requirements of biosensors</td>
<td>Stefan Dübel, Technische Universität Braunschweig, Germany</td>
<td>Germany</td>
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<tr>
<td>Microbial fuel cell based biosensor as a long term alarm detector for water toxicity</td>
<td>Valentina Margarita, Istituto Italiano di Tecnologia, Torino, Italy</td>
<td>Italy</td>
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<tr>
<td>Microfluidic droplets and their applications</td>
<td>Liqui Rick Wang, HKU-Zhejiang Institute of Research and Innovation, Hong Kong</td>
<td>Hong Kong</td>
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<tr>
<td>Recent developments in magnetic impedance biosensors and related medical devices</td>
<td>Manh-Huong Phan, University of South Florida, USA</td>
<td>USA</td>
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<tr>
<td>Aptamers and bio-sensing</td>
<td>Shalen Kumar, Victoria University of Wellington, New Zealand</td>
<td>New Zealand</td>
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<tr>
<td>Palladium Nanostructured Single Carbon Fibre Electrodes for Detection of Early-Onset Sepsis and Oxidative Stress</td>
<td>Aaron McConville, Ulster University, UK</td>
<td>UK</td>
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<tr>
<td>Towards practical bacterial biosensor assays for on-site applications</td>
<td>Elizabeth Salvo, McMaster University, Canada</td>
<td>Canada</td>
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<tr>
<td>Stabilization of gold and silver nanoparticles for LSPR sensing operating in both visible and near-IR regimes in high salt concentration environments</td>
<td>H Haraguchi, Toyo University, Japan</td>
<td>Japan</td>
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<tr>
<td>Development of miniaturized uniaxial cell stretching device</td>
<td>Jaeon Kim, Sungkyunkwan University, South Korea</td>
<td>South Korea</td>
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<tr>
<td>Yeast whole cell sensors for the detection of acetic acid in biogas production</td>
<td>Katja Kahne, Technische Universität Dresden, Germany</td>
<td>Germany</td>
</tr>
<tr>
<td>Butterfly wing scales as a model template for SERS applications</td>
<td>K Nagata, Toyo University, Japan</td>
<td>Japan</td>
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<tr>
<td>Synthesis of quantum dots conjugates with antibodies for immunochromatographic analysis</td>
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</tbody>
</table>
### Ibragimova Sagila Aladdinovna, Institute of Cell Biophysics- RAS, Russia

**Title:** Cu2+ detection realized with silicon nanowire ion-sensitive field effect transistor based biosensor

Olena Synhaivska, University of Basel, Basel, **Switzerland**

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<th><strong>Young Researcher Forum</strong></th>
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<tr>
<td><strong>Title:</strong> Detection of β-thalassemia IVSI-110 mutation by using piezoelectric biosensor for non-invasive prenatal diagnosis</td>
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<tr>
<td>Umut Kokbas, Cukurova University, <strong>Turkey</strong></td>
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<tr>
<td><strong>Title:</strong> Application of twin-working electrode cell in characterizing biological electron mediators</td>
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<tr>
<td>Mahamudul Hassan, Murdoch University, <strong>Australia</strong></td>
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**10 more YRF slots available**
Glimpses of Biosensors Conferences

http://biosensors.conferenceseries.com/europe/
Glimpses of Biosensors Conferences

http://biosensors.conferenceseries.com/europe/
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<th>Major Scientific Sessions</th>
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<td>• Biosensors</td>
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<td>• Bioinstrumentation &amp; Equipments</td>
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<tr>
<td>• Transducers in Biosensors</td>
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<td>• Bioelectronics</td>
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<tr>
<td>• Biochips &amp; Nucleic Acid Sensors</td>
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<tr>
<td>• Biosensors for Imaging</td>
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<tr>
<td>• Photonic Sensor Technologies</td>
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<tr>
<td>• Environmental Biosensors</td>
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<tr>
<td>• Biosensors &amp; Global Market</td>
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**Best Poster Award**
- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster.
- Judges will even evaluate the student’s enthusiasm towards their study, interest and knowledge in the area of their research.
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement.
- Apart from the judging time you may also be present at the poster to share your research with interested delegates.

**Young Researchers Forum**
- Present your research through oral presentations.
- Learn about career development and the latest research tools and technologies in your field.
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research.
- Develop a foundation for collaboration among young researchers.
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe.
- Interact and share ideas with both peers and mentors.

**General Queries**
eurobiosensors@conferenceseries.net

**Conference Venue**
Berlin, Germany
Best Tourist Destinations in Berlin

- Alexanderplatz
- Berlin Cathedral
- Berlin Wall Memorial
- Berlin Zoological Park
- Brandenburg Gate
- Gendarmenmarkt
- Museum Island
- Pariser Platz
- Reichstag
About Berlin

Berlin is one of the best cities to organize the 7th Euro Biosensors & Bioelectronics Conference. The research work going on in the field is in a good range when compared to the other cities. Berlin is the fastest growing city in Germany with an excellent economic growth. Analytical Chemistry, Chemo- and Biosensors Technology degree programs are offered at University of Regensburg.

The location is continuously focusing on Biosensors and Bioelectronics, R&D-oriented, technology-driven manufacturing industry. Berlin’s industry is at the forefront of innovation with 3.6 percent of the GNP, Berlin makes the second highest investment in research and development in the country. About 61 percent of R&D spending goes to the very pronounced publicly funded and university research landscape. Industry receives about a 27-percent share. Berlin is unique in that science as a resource is available to industrial companies in a highly compact manner and offers companies excellent cooperation opportunities. Berlin is Germany’s top tourist city destination. It is a great city to visit, mixing venues of historical interest with exciting recreation and entertainment opportunities. Alongside its major historical sites, Berlin offers a diverse range of top attractions – world famous buildings, museums, city parks, cabaret theatres, festivals and of course plenty of shopping opportunities.
Scientific Program

5th Euro Biosensors and Bioelectronics Conference

June 30-July 02, 2016   Valencia, Spain

Hosting Organization: Conference Series LLC
e-mail: eurobiosensors@conferenceseries.net; eurobiosensors@conferenceseries.com
Day 1                June 30, 2016

Registrations

Valentia C

conference-series.com

Opening Ceremony

Keynote Forum

Introduction
Title: Data analytics, the digital patient and simulation in healthcare
C Donald Combs, Eastern Virginia Medical School, USA
Title: Optimal reporters for electrochemical detection of protease activity
Mark Bradley, University of Edinburgh, UK

Networking & Refreshments Break @ Foyer

Title: Magnetic nanoparticles meet microfluidics
Andreas Hütten, Bielefeld University, Germany

Group Photo

Session Tracks
Biosensors | Types of Biosensors | Biochips & Nucleic Acid Sensors | Bioinstrumentation & Equipments | Photonic Sensor Technologies | Nanotechnology in Biosensors | Biosensing Technologies | Biosensor Applications

Session Chair: Zuzana Bilkova, University of Pardubice, Czech Republic
Session Co-Chair: Valery Pavlov, CIC, Spain

Session Introduction
Title: Alkaline phosphatase or Q dots labeled antibody-based electrochemical biosensors for ultrasensitive tumor markers detection
Zuzana Bilkova, University of Pardubice, Czech Republic
Title: An electrochemical biochip based on human hepatic drug metabolising enzymes in the presence of graphene and/or AuNps
Sheila Sadeghi, University of Torino, Italy
Title: A review on surface plasmon resonance and its application as biosensing element
Ritu Sharma, Malaviya National Institute of Technology, India

Lunch Break @ Aqua Restaurant

Session Chair: Subrayal M Reddy, University of Central Lancashire, UK
Session Co-Chair: Valery Pavlov, CIC, Spain

Dario Mager, Karlsruhe Institute of Technology, Germany
Title: eDisc – Getting 21st century technology into lab on disc applications
Subrayal M Reddy, University of Central Lancashire, UK
Title: Smart materials: Advances in protein-based molecularly imprinted polymer biosensing
Valery Pavlov, Centro de Investigación Cooperativa en Biomateriales CIC biomaGUNE, Spain
Title: Enzymatic synthesis and etching in situ of gold and semiconductor nanoparticles in biosensing
Rodica Elena Ionescu, University of Technology of Troyes, France
Title: Acoustic and plasmonic biosensors for the detection of different classes of (bio) molecules
Valentia C

Networking & Refreshments Break @ Foyer

Vladimir Moshkin, ”Sib-STRIM” LLC, Tomsk, Russia
Title: New ultra-sensitive measurement method in ampere and voltammetry

Panel Discussion

Title: Nucleic acid biosensors for the detection of heavy metal ions
Lingwen Zeng, Wuhan Academy of Agricultural Science and Technology, China
Title: LumiSense - A portable water pollutant monitoring system using whole cell array
Ji-Yen Cheng, Research Center for Applied Sciences, Taiwan
Title: Conducting polymer composite based on nano-cellulose for biosensing application
Mahnaz M Abdi, University Putra Malaysia, Malaysia
Title: CYBERTONGUE®, a multiplexed biosensing platform where BRET meets flow - for food diagnostic and other applications  
Stephen Trowell, CSIRO, Australia

Title: Amperometric biosensors for cancer maker detection using novel dumbbell-like gold-magnetite nanocomposites  
Ruey-an Doong, National Chiao Tung University, Taiwan

Title: Photothermal effect of conjugated polymer surfaces for harvesting of live cell sheets  
Eunkyoung Kim, Yonsei University, South Korea

Networking & Refreshments Break @ Foyer

Session Tracks

Bioelectronics | Biosensor Applications | Biochips & Nucleic Acid Sensors | Nanotechnology in Biosensors | Biosensing Technologies | Photonic Sensor Technologies | Biosensors for Medical Applications

Session Chairs: Andreas Hütten, Bielefeld University, Germany  
Ruey-an Doong, National Chiao Tung University, Taiwan

Session Introduction

Title: Development of modified ferrocenes DNA probes for electrochemical SNP sensing  
Holly Roberts, University of Birmingham, UK

Title: Ordered DNA fragmentation using soft lithography and amplification for next generation sequencing  
NaHyun Cho, Stony Brook University, USA

Title: Parametric electrical modelling of human forearm simulation response using multi-frequency electrical bioimpedance  
Gautam Anand, Auckland University of Technology, New Zealand

Title: Role of sympathetic nervous system in rat ovarian ageing  
Maritza P Garrido, University of Chile, Chile

Title: DMSA-coated iron oxide nanoparticle greatly affect the expression of genes coding cysteine-rich proteins by its DMSA coating  
Ling Zhang, Southeast University, China

Title: Quantifying Skin Stretch induced motion artifact from an Electrocardiogram signal  
Anubha Kalra, Auckland University of Technology, New Zealand

Lunch Break @ Aqua Restaurant

Title: Triboelectric effect as a novel tool for the development and application of point-of-care testing devices  
Everson Thiago Santos Gerencio da Silva, State University of Campinas, Brazil

Title: Sequence-specific recognition of DNA oligomer by DNA/DNA hybridization in silicon nitride nanopores  
Shengwei Tan, Southeast University, China

Title: The use of the speckle dynamics for the quantitative analysis of micro and macro processes in cultured cells: Theory and experiment  
A. P. Vladimirov, Ural Federal University, Russian

Title: Preparation and electrochemical characterization of ZnO based disposable urea biosensors  
Sayed Ahmad Mozaffari, Iranian Research Organization for Science & Technology, Iran

Title: Ultrasensitive and selective impedance biosensing platform based on nanoporous silicon oxide  
Chirasree Roy Chaudhuri, Indian Institute of Engineering Science and Technology, India

Networking & Refreshments Break @ Foyer

Poster Presentations: 15:45-16:25

P01 Title: An amperometric PAMAM G4.0-modified cytochrome P450 biosensor with PAMAM for the concentration-based sensing of caffeine  
Michael Müller, Saarland University, Germany

P02 Title: SIGNALMAN: Autonomous in-line biosensors for detection of microorganisms  
Sonia Yadav, Institute of Technology Tallaght, Ireland

P03 Title: Study on the effect of electodeposited palladium nanoparticles to the electrochemical properties of carbon fiber paper electrode  
Chun Lung Lien, National Chiao Tung University, Taiwan

P04 Title: Effect of protein layer on the photo-thermal harvesting of cell sheets  
Jongbeom Na, Yonsei University, South Korea
P05 Title: All organic triboelectric generator for a self-powered glucose sensor based on an organic electrochemical transistor
Younghoon Kim, Yonsei University, South Korea

P06 Title: Nanostructured platform based on polyaniline/cellulose nanocrystal composite for biosensor application
Mahnaz M Abdi, University Putra Malaysia, Malaysia

P07 Title: Magnetite nanoparticles on paper: A platform for the diagnosis of dengue fever by magnetic-ELISA
Greter Amelia Ortega Rodriguez, Center for Applied Science and Advanced Technology of IPN, Mexico

P08 Title: Surface plasmon resonance sensor based direct target DNA detection via gold nanoparticle signal enhancement without DNA amplification
Wonhwi Na, Korea University, Korea

Panel Discussion
Awards and Closing Ceremony:

Day 3 July 02, 2016

Networking Lunch @ Aqua Restaurant

Bookmark your dates

7th Euro Biosensors and Bioelectronics Conference
July 10-12, 2017 Berlin, Germany

e-mail: eurobiosensors@conferenceseries.net; eurobiosensors@insightconferences.com
Website: biosensors.conferenceseries.com/europe
Scientific Program

6th International Conference and Exhibition on

BIOSENSORS & BIOELECTRONICS

September 22-23, 2016   Phoenix, USA
Keynote Forum

Introduction
Title: Advances in terahertz spectroscopy nano-scanner and sub-surface 3D imaging for biomaterial
Anis Rahman, Applied Research & Photonics Inc., USA

Networking & Refreshment Break

Title: Biosensors for genes, pathogens, parasites, biomarkers and toxins
Raj Mutharasan, Drexel University, USA

Session: Biosensors | Biosensors Applications | Transducers in Biosensors | Bioelectronics | Biosensors for Imaging | Environmental Biosensors | Gas Sensors

Session Chair: Mahmoud Almasri, University of Missouri, USA
Session Co-chair: Jeroen De Buck, University of Calgary, Canada

Title: Turning the glucose sensor into a versatile point-of-care platform for the detection of a wide range of biological analytes
Jeroen De Buck, University of Calgary, Canada
Title: An impedance biosensor for rapid detection of low concentration of *Escherichia coli* O157:H7
Mahmoud Almasri, University of Missouri, USA

Group Photo

Lunch Break

Title: Translating biosensors to market at the university
Jeffrey T La Belle, Arizona State University, USA
Title: Shear horizontal surface acoustic wave sensors for rapid detection of enterohemorrhagic *Escherichia coli*
Justin T Baca, University of New Mexico, USA
Title: Interferometric biosensors for advanced Point-of-Care diagnostics
Ana Belen Gonzalez-Guerrero, Catalan Institute of Nanoscience and Nanotechnology, Spain
Title: Optical and electrical properties of bacteria were based bio-detector for heavy metals (CdCl₂ and NiCl₂) pollutants
Al-Shanawa Mayhham Abdala Ali, University of Basra, Iraq
Title: Pedot: Pss and gold nanocomposite activated electrochemical sensor for the recognition of fungal DNA
Sabo Wada Dutse, Hussaini Adamu Federal Polytechnic, Nigeria

Networking & Refreshment Break

Young Researchers Forum

Title: Wearable device for pH monitoring in wounds
Paola Fanzio, Delft University of Technology, Netherlands
Title: Tuning the selectivity of nitrogen doped carbon nanotubes using ionic liquid towards electrochemical sensing of dopamine
Anju Joshi, Indian Institute of Technology, India

Panel Discussion
### Keynote Forum

**Title:** Biomedical and environmental sensing applications of lateral wave vector response to refractive index  
**Kevin L Lear,** Colorado State University, USA

**Networking & Refreshment Break**

**Title:** Biomaterials as biosensors for microbial biomarkers in human tears and saliva: Proof of concept  
**Mouad Lamrani,** Menicon Co., Ltd R&D, Geneva, Switzerland

**Title:** Backscattering interferometry marries aptamer-based assays to enable quantitation of nerve agent metabolites and human cytomegalovirus urine at clinical relevant levels  
**Darryl J Bornhop,** Vanderbilt University, USA

### Workshop on A to Z of a terahertz spectroscopy and imaging experiment

by  
**Anis Rahman,** Applied Research & Photonics, Inc., USA

**Networking & Refreshment Break 15:20-15:40**

### Session:

DNA Chips and Nucleic acid Sensors | Photonic Sensor Technologies | Biosensing Technologies | Bioinstrumentation | Advancement in Nanotechnology | BioMEMS/NEMS

**Session Chair:** Kevin L Lear, Colorado State University, USA

**Title:** Split deoxyribozyme sensors for highly selective analysis of nucleic acids  
**Yulia V Gerasimova,** University of Central Florida, USA

**Title:** Capacitive sensor for respiratory monitoring  
**Victoria Wang Yue,** Hill-Rom Services Private Limited, Singapore

### Young Researchers Forum

**Title:** The BIOFOS-LoC: Microring resonator based biophotonic system for food analysis  
**George Tsekenis,** Biomedical Research Foundation of the Academy of Athens, Greece

**Networking & Refreshment Break 15:20-15:40**

**Title:** Development toward a multi-marker and label-free platform sensor technology using electrochemical impedance spectroscopy and nanomaterials  
**Chi Lin,** Arizona State University, USA

**Title:** Automated single cell arrays based on magnetophoretic circuits  
**Roozbeh Abedini-Nassab,** Duke University, USA

### Poster Session

**Award Ceremony**

**Bookmark Your Dates**

**8th International Conference and Exhibition on**

**Biosensors & Bioelectronics**

**Website:** www.biosensors.conferenceseries.com  
**E-mail:** eurobiosensors@conferenceseries.net, eurobiosensors@conferenceseries.com

**September 27-29, 2017  Chicago, USA**
Scientific Program

4th International Conference and Exhibition on Biosensors & Bioelectronics
September 28-30, 2015 Atlanta, USA
Keynote Forum

**Introduction**

**Title:** New SPR-based biosensor platform for fragment-based-drug-discovery  
**Tom Jobe**, SensiQ Technologies, USA

**Title:** Deep transcranial magnetic stimulation for the treatment of neurological disorders  
**David C Jiles**, Iowa State University, USA

**Coffee Break @ Foyer**

**Title:** Spinal fiber optic monitoring  
**Thomas F Floyd**, Stony Brook University, USA

**Title:** Electronic label-free biosensing assays  
**Mark A Reed**, Yale University, USA

**Title:** Terahertz spectral profiling and imaging for skin cancer detection  
**Anis Rahman**, Applied Research & Photonics Inc., USA

**Sessions:** Biosensors, Biosensors Applications, Bioelectronics and Advancement in Nanotechnology
**Chair:** Yu Lei, University of Connecticut, USA  
**Co-chair:** Laurent A Francis, Universite catholique de Louvain, Belgium

**Session Introduction**

**Title:** PEG-BSA-Coumarin-GOx fluorescent hydrogel: Preparation, characterization and glucose biosensing  
**Yu Lei**, University of Connecticut, USA

**Title:** The development of integrated capacitive array biosensors towards the selective and real-time detection of single bacterium  
**Laurent A Francis**, Universite catholique de Louvain, Belgium

**Lunch @ Restaurant**

**Title:** Recent development in power systems for implantable bioelectronic devices  
**Gymama Slaughter**, University of Marylands, USA

**Title:** Vertically aligned carbon nanofiber biosensors  
**Nicole McFarlane**, University of Tennessee, USA

**Title:** Novel miniaturized, fully integrated, wireless, low-cost glucose sensing platform  
**Muhammad Mujeeb-U-Rahman**, Wireless Diagnostic Systems, Inc., USA

**Title:** Novel plasmonic sensing strategy based on semiconductor nanocrystals  
**Wing-Cheung Law**, Hong Kong Polytechnic University, Hong Kong

**Title:** Biosensor based on CYP2D6-functionalised carbon nanotube transducer for continuous detection of xenobiotics  
**Matic Krivec**, Carinthian Tech Research, Austria

**Coffee Break @ Foyer**

**Title:** Application of gold nanoparticles-dotted 4-nitrophenylazo graphene in a label-free impedimetric deoxynivalenol immunosensor  
**Christopher Edozie Sunday**, University of Western Cape, South Africa

**Title:** Fluorescent protein membrane based biosensor for ultrasensitive heme/hemin detection  
**Xiaoyu Ma**, University of Connecticut, USA

**Title:** A multiplexed protein based urine chip to distinguish recurrent from non-recurrent Bca  
**Gogalic Selma**, Austrian Institute of Technology, Austria
| Title: Development of enzyme, antibody and MIP based assays for the rapid detection of biogenic amines  
Leena Mattsson, Austrian Institute of Technology, Austria |
|-------------------------------------------------------------|

**Panel Discussion**

**Day 2**  
**September 29, 2015**  
**Hall Chattahoochee Salon A**

**Keynote Forum**

| Title: Amphiphile-enhanced antibiotic potency: Imaging penetration  
George W Gokel, University of Missouri, USA |
|-------------------------------------------------------------|

| Title: A biosensing approach for detecting and managing head injuries in American football  
John N Daigle, University of Mississippi, USA |
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**Sessions: Biosensing Technologies, Environmental Biosensors, Bioinstrumentation and Transducers in Biosensors**

**Chair:** John N Daigle, University of Mississippi, USA  
**Co-chair:** Woo Hyoung Lee, University of Central Florida, USA

**Session Introduction**

| Title: Enhanced cobalt-based microelectrode and nano-textured phosphate sensor for *in situ* phosphate measurement in drinking water systems  
Woo Hyoung Lee, University of Central Florida, USA |
|-------------------------------------------------------------|

| Title: Optical-based integrated oxygen sensor for long-term O₂ monitoring for use in organ-on chip platforms  
Amir Sanati Nezhad, University of Calgary, Canada |
|-------------------------------------------------------------|

| Title: From the engineering to the final application of asymmetric nanomaterials in detection: Rapid and ultrasensitive HEATSENS® thermal based biosensor development  
Mariantonietta Parracino, Nanoimmunotech S.L, Spain |
|-------------------------------------------------------------|

| Title: Authenticity and classification of honeys from different geographical and botanical origins based on voltammetric electronic tongue  
Nezha El Bari, Moulay Ismail University, Morocco |
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**Title: Free enzyme bio-material as D-glucose sensor  
Mouad Lamrani, Menicon Co., Ltd R&D, Switzerland**

**Title: Quilt packaging advanced interconnect technology for biomedical applications  
Jason M Kulick, Indiana Integrated Circuits LLC, USA**

**Workshop on Glucose monitoring: Enzymatic vs. non-enzymatic**  
*by Dr. Yu Lei, University of Connecticut, USA*

**Lunch @ Restaurant**

**Poster Presentations**

**Panel Discussion**

**Day 3**  
**September 30, 2015**  
**Hall Chattahoochee Salon A**

| Title: FET ion sensor with nanometric lipid gate insulator for high sensitivety detection level  
Ahmad Kenaan, Centre Interdisciplinaire de Nanoscience de Marseille, France |
|-------------------------------------------------------------|

| Title: PEG-fluorescein-GOx hydrogel for glucose biosensing  
Jun Chen, University of Connecticut, USA |
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<th>Workshop on Whole plant-cell microfluidic-based biosensor for toxicity testing of environmental pollutants by Amir Sanati Nezhad, University of Calgary, Canada</th>
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Sessions: DNA Chips and Nucleic acid Sensors, Photonic Sensor Technologies, Biosensors for Imaging and BioMEMS/NEMS

Chair: Hong-Yu Yu, South University of Science and Technology, China
Co-chair: Jurgen Van Erps, Vrije Universiteit Brussel, Belgium

Session Introduction

Title: A novel leaky surface acoustic wave (LSAW) biosensor for label-free detection of hepatitis B surface antibody (HBsAb)
Hong-Yu Yu, South University of Science and Technology, China

Title: Photonics-enhanced multi-functional labs-on-chips: From lab to fab
Jurgen Van Erps, Vrije Universiteit Brussel, Belgium

Title: Ordered DNA fragmentation on surfaces for NGS sequencing
NaHyun Cho, Stony Brook University, USA

Title: A facile, colorimetric assay for DPP IV activity and inhibition based on an enzyme-responsive nanoparticle system
Hassan Aldewachi, Sheffield Hallam University, UK

Title: Determination of effect factor for effective parameter on saccharification of lignocellulosic material by concentrated acid
Sina Aghili, Islamic Azad University, Iran

YRF Certificate Distribution and Award Ceremony for Best Posters

Closing Ceremony

Lunch @ Restaurant

Bookmark your dates

International Conference and Exhibition on Biosensors & Bioelectronics

Europe
Valencia, Spain June 30 - July 02, 2016

USA
Phoenix, USA September 22-24, 2016

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Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499
Track 1: Security and Sensing
Track 2: Photonic Sensor Technologies
Track 6: Bioinstrumentation
Track 8: Biosensors for Imaging

Session Chair: Hai Feng Ji, Drexel University, USA
Session Co-Chair: Zhixiong Guo, Rutgers University School of Engineering, USA

Title: A mammalian cell-based nanomechanical biosensor
Hai Feng Ji, Drexel University, USA

Title: Orofacial muscle activity acquired in the natural environment of subjects with temporomandibular disorders
Luigi M Gallo, University of Zurich, Switzerland

Title: Synthetic sensing and signal transduction cascades based on artificial autoinhibited proteases
Kirill Alexandrov, University of Queensland, Australia

Lunch Break @ Texas B

Title: Molecular sensing based on optical whispering-gallery mode microsensors
Zhixiong Guo, Rutgers University, USA

Title: The use of boronate probes for the detection of reactive oxygen and nitrogen species
Adam Sikora, Lodz University of Technology, Poland

Title: Fluorescence discrimination of cancer from inflammation by molecular response to COX-2 enzymes
Jiangli Fan, Dalian University of Technology, China

Coffee Break @ Foyer

Title: Optoelectronic techniques in measurement of physiological parameters and their translation into handheld devices for better patient care
Sanjay Jayavanth, King Saud University, Saudi Arabia

Title: A colorimetric logic gate based on urea-gold nanoparticles and applications on Pb²⁺ and Cr³⁺ detection
Jianjun Du, Dalian University of Technology, China

Title: An integrated nanoscale optical glucose sensor with enhanced sensitivity and selectivity via dye-coupled plasmonic interferometry
Jing Feng, Brown University, USA

Title: The development of an oligonucleotide, label-free electrochemical impedance based point-of-care technology
Aldin Maloc, Arizona State University, USA

Title: Hawking radiation from non-stationary rotating de Sitter black hole
Kangujam Yugindro Singh, Manipur University, India

Panel discussion

Cocktails sponsored by Journal of Biosensors & Bioelectronics @ Texas B
Day 2                August 12, 2014

Texas A

Workshop on Bionano Sensor for Molecular Imaging and Fusion Technology
by Dr. Reid Al Baradie and Dr. Santhanaraj Balakrishnan, Majmaah University, Saudi Arabia

Coffee Break @ Foyer

Track 3: Bioelectronics
Track 4: BioMEMS/NEMS
Track 9: DNA Chips and Nucleic Acid Sensors

Session Chair: Jun-Jie Zhu, Nanjing University, China
Session Co-Chair: Winnie E Svendsen, Technical University of Denmark, Denmark
Title: Microelectronic sensor for DNA analysis
Winnie E Svendsen, Technical University of Denmark, Denmark
Title: Magnetic nanoparticles-based microfluidic sensing system for genotyping, CTC measurement and therapeutic monitoring
Daxiang Cui, Shanghai Jiao Tong University, China
Title: Bioelectronics for traumatic brain injury monitoring
E M Drakakis, Imperial College, London
Title: Nanoneedle array: A label-free, real time and matrix independent detection platform for detection of different biomarkers
Rahim Esfandiyarpour, Stanford University, USA

Lunch Break @ Texas B

Title: Progress on the studies on visual detection and surface modification testing of glass microfiber filter based biosensor
Yekbun Adiguzel, Istanbul Kemerburgaz University, Turkey
Title: Electrochemical biosensors for the ultrasensitive detection of microRNA
Jun-Jie Zhu, Nanjing University, China
Title: Fabrication of an on-sensor microfluidic device to measure sample flow
Akshaya Shanmugam, University of Massachusetts, USA

Coffee Break @ Foyer

Title: Estimate of the accuracy of the home-made respiratory monitoring system based on the MEMS acceleration sensor
Jiwon Sung, Korea University, Korea

Poster Presentations @ Texas B
Award Ceremony for Best Posters @ Texas A
Cocktails sponsored by Journal of Bioengineering & Biomedical Science @ Texas B

Day 3                     August 13, 2014

Texas A

Track 5: Advancement in Nanotechnology
Track 7: Environmental Biosensors
Track 10: Application of Biosensors in Drug Delivery & Clinical Chemistry
Track 11: Sensor Networks and Data Communications

Session Chair: Shaoan Cheng, Zhejiang University, China
Session Co-Chair: Ajay Agarwal, Central Electronics Engineering Research Institute, India

Session Introduction

Title: Sensing heavy metals for environmental monitoring
Mahnaz M Abdi, Universiti Putra, Malaysia
Title: An electrochemical sensing interface for dengue virus detection
Sook Mei Khor, University of Malaya, Malaysia
Title: Viral-electromechanical systems: Virus derived sensing and actuating systems
Justyn Jaworski, Hanyang University, Korea

Coffee Break @ Foyer

Title: Amperometric biosensor for the measurement of RBC and MCHC in the blood
Raid Saleem Al-Baradie, Majma’ah University, Saudi Arabia
Title: On exotic nanostructure for bio-FET
Hiroshi Watanabe, National Chiao Tung University, Taiwan
Title: A detection system for the heating value of sludge based on microbial fuel cells
Shaoan Cheng, Zhejiang University, China

Title: The utilization of DNA probes and gold nanoparticles on paper-based analytical devices for tuberculosis diagnosis
Chien-Fu Chen, National Chung Hsing University, Taiwan

Title: Nanowire arrays for multiplexed nano-biosensors
Ajay Agarwal, Central Electronics Engineering Research Institute, India

Title: Whole cell bacterial biosensor for environmental monitoring and pollutants detection
Saurabh Gupta, Central Electronics Engineering Research Institute, India

Title: Aptamer based E-coli detection in waste waters by SWCNTs modified biosensor system
Nimet Yildirim, Northeastern University, USA

Title: Human-inspired bioelectronic nose for water quality monitoring
Manki Son, Seoul National University, Korea

Lunch Break @ Texas B

Closing Ceremony