PROGRAM

Tuesday, October 16, 2012	
15:00	Registration Opens: **La Vista Room**, Embassy Suites Hotel
17:30	Welcome Reception: **La Vista Room**
19:30	Adjourn

Wednesday, October 17, 2012			
07:30	Registration Opens, **Prefunction Area**, Embassy Suites Hotel		
07:45	Bus leaves from Embassy Suites Hotel to Río Piedras (**only for Workshop A**)		
08:30-11:30	**Workshop A**: *Scanning Probes, Dr. Matthew Brukman,* University of Pennsylvania, USA **Moderator**: Rocío Cardona, UPENN, USA	**Workshop B**: *Magneto-nano-bio-sistemas electroanalíticos, Prof.* Salvador Alegret, Universitat Autònoma de Barcelona, España **Room B**: Embassy Suites Hotel **Moderator**: Víctor Pantojas, UPR-Cayey, Puerto Rico	**Workshop C**: *Molecular Visualization using VMD, Dr.* Robert Johnson, University of Pennsylvania, USA ***Room C****:* Embassy Suites Hotel **Moderator**: Maria Teresa Seabra dos Reis Gomes, U. Aveiro, Portugal
10:00	Coffee Break		
11:45	Bus returns from Río Piedras to Embassy Suites Hotel from Workshop A		
13:00	**Conference Opening** and Lunch: **La Vista Room**		
14:30	**Plenary Lecture 1**: **Ballroom** *Electrochemical Impedance DNA Sensors*, Prof. Carlos Cabrera, Department of Chemistry and Center for Advanced Nanoscale Materials, University of Puerto Rico, Río Piedras Campus		
15:30	Coffee Break		

Wednesday, October 17, 2012		
16:00	**Session 1**: Nanosensors and Ultrasonic Sensors **Room: A** **Leader**: Carlos Domínguez, IMB-CNM (CSIC), España	**Session 2**: Optical Sensors 1 **Room: B** **Leader**: Carlos Ortiz, Universidad de Puerto Rico-Cayey, Puerto Rico
16:00	**IB12-72**: Electrospun Nanobridges towards Self-Heated Gas Sensors with Enhanced Sensitivity, C.J. Camargo, A. Meléndez, J. Robles, J. Esteve, H. Campanella, and I. Ramos, IMB-CNM (CSIC)/UPRH, España/Puerto Rico	**IB12-02**: Reconfigurable Photonic Structures based on a-Si/C Devices, M. Vieira, M.A. Vieira, P. Louro, V. Silva, and A. Fantoni, ISEL-ADEETC/CTS-UNINOVA/DEE-FCT-UNL, Portugal
16:20	**IB12-68**: Electrochemical Characterization of poly-(3,4 propylenedioxythiophene) Pseudo-Capacitor**,** J-W. Park, H. Sahoo, T. Jones, R. del A. Cardona, and J.J. Santiago-Avilés, EE/UPENN, USA	**IB12-03**: Photodetector with Integrated Optical Thin Film Filters, M.A. Vieira, M. Vieira, P. Louro, V. Silva, and A.S. Garção, ADEETC-ISEL/CTS-UNINOVA/DEE-FCT-UNL, Portugal
16:40	**IB12-10**: Characterization of Aluminum Doped Zinc Oxide Thin films and Nanostructures for H_2 Gas Sensing Applications, V.M. Pantojas, L. Amadeo, N. Granda, C. Ortiz, and W. Otaño, UPRC, Puerto Rico	**IB12-61**: Laser de Fibra con Longitud de Onda Dual Empleado como Sensor, M. Durán-Sánchez, E. A. Kuzin, B. Ibarra-Escamilla, R. I. Álvarez-Tamayo y A. González-García, UTP/INAOE/ BUAP, México
17:00	**IB12-12**: PAN/Starch Composite Nanofibers as a Selective Membrane for Sensors and MicroTAS, A.N.R. da Silva, M.L.P. da Silva, R.N.R. Dias, L. Sayuri, and E.R. Fachini, LSI-EPUSP/UPRRP, Brazil/Puerto Rico	**B12-29**: Implementación de un sistema de tomografía óptica coherente, J. Ramos-Beltrán, J. Castillo-Mixcóatl, G. Beltrán-Pérez y Y.S. Muñoz-Aguirre, BUAP-FCFM, México.
17:20	**IB12-30**: Análisis del Elemento Piezoeléctrico mediante el Método de los Elementos Finitos (MEF) cuando se ve Modificada el Area Efectiva del Elemento, I. Sánchez Domínguez, P. Acevedo Contla, F. García Nocetti y M. Recuero López, UNAM-IIMAS/UPM, México/España	**IB12-89**: Limite De Sensibilidad en la Detección entre un Interferometro de Michelson y un Dispositivo basado en la Deflexión del Haz Óptico, G.E. Sandoval-Romero, E. González-Espinosa y E. F. Pinzón-Escobar, UNAM-CCADET, México
17:45	Adjourn	
19:30	Ibersensor Permanent Committee Meeting **Room 845** Embassy Suites Hotel	

Thursday, October 18, 2012			
08:00	Registration Opens: **Prefunction Area**, Embassy Suites Hotel		
09:00	**Plenary Lecture 2**: **Ballroom** *Exploiting Plasmon Induced Hot Electrons in Nano Sensors*, Prof. Dawn Bonnell, Department of Materials Science and Engineering and Nano/Bio Interface Center, University of Pennsylvania		
10:00	Coffee Break		
10:30	**Session 3**: Nanosensors **Room**: **A** **Leader**: Esteban Fachini, UPR-Río Piedras, Puerto Rico	**Session 4**: Chemical Sensors **Room**: **B** **Leader**: Francisco Valdés, ITL, México	**Session 5**: Biomedical Applications 1 **Room**: **C** **Leader**: Raquel Pérez-Castillejos, NJIT, USA
10:30	**IB12-17**: **(Invited)** Electrospun Conducting Polymer Nanofibers as the Active Material in Sensors and Diodes, N.J. Pinto, UPRH, Puerto Rico	**IB12-55**: **(Invited)** Effect of Ethanol Concentrations on Few Layer Schottky Graphene Transistors, L.E.G. Armas, M.F.G. Huila, M. Pojar, H.E.M. Peres, F.J.R. Fernandez, K. Araki, H.E. Toma, A. D. Santos, and A.C. Seabra, LSI-LMEPSI/EPUSP, IQ-IF-USP, Brazil	**IB12-13: (Invited)** Multi-Parameter Measurement System for an In-vitro Characterization of the Hemodynamics in Carotid Arterial Bifurcations, D. Suárez-Bagnasco, R.L. Armentano, G. Balay, L. Cymberknop, J. Brum, D. Bia, and C.A. Negreira, LAU-IFFC-FMED-UdelaR/ FRBA-UTN, Uruguay/Argentina
11:00	**IB12-74**: pH Sensors based on TiO_2 Nanotubes, M.Z. Mielli, K.F. Albertin, A.T. Lopes, M.N.P. Carreño, and I. Pereyra, LME-PSI-EPUSP/CECS-UFABC, Brazil	**IB12-24**: Monitorização das Propriedades Viscoelásticas de uma Suspensão de Amido com um Sensor Acústico, M.D. Santos, M.T.S.R. Gomes, CESAM-UA, Portugal	**IB12-35**: Experimental Approach on Measuring Sheep Coronary Arteries Vasomotricity, L.J. Cymberknop, R.L. Armentano, F.M. Pessana, A. Furfaro, and A.J. Crottogini, FRBA-UTN/UF, Argentina
11:20	**IB12-23**: Palladium Nanoshells for Ultra-sensitive Hydrogen Sensors, D. Rodríguez-Vindas, C. Ortiz, V. Pantojas, and W. Otaño, UPRC/UPRRP, Puerto Rico	**IB12-41**: Caracterización de un Sensor de pH en Fibra Optica con Análisis de Componentes Principales, S. Rosete-Meléndez, G. Beltrán-Pérez, J. Castillo-Mixcóatl y S. Muñoz-Aguirre, BUAP-FCFM, México	**IB12-06**: Un Nuevo Concepto de Imuno-sensor Piezoeléctrico (QCM) para Plaguicidas basado en la Detección de Cambios de Fase a Alta Frecuencia, A. Montoya, J.V. García-Narbón, A. Sánchez, A. Arnau, Y. Jiménez y C. March, I^3BH-GFO-UPV, España
11:40	**IB12-48**: New Synthesis Pathways of Silicon Oxide Containing Silicon Nanostructures, C. Fernández-Sánchez, J.A. Rodríguez, J. Juvert, V. Auzelyte, J. Brügger, and C. Domínguez, IMB-CNM (CSIC)/IMRE-UH/EPFL, España/Cuba/Switzerland	**IB12-73**: FIA-automated System Used to Electrochemically Measure Nitrite and Interfering Chemicals through a 1-2 DAB / Au Electrode: Gain of Sensitivity at Upper Potentials**,** F.L. Ameida, S.G. dos Santos Filho, and M.B.A. Fontes, LSI, FATEC-SP /CEETEPS, Brazil.	**IB12-49**: Ochratoxin A Detection: Aptatools and Aptasensors, C. Yang, X. Yang, and J-L. Marty, UPVD/CIAC-CAS, France/China
12:15	Lunch: **La Vista Room**		

Thursday, October 18, 2012			
13:30	**Plenary Lecture 3**: **Ballroom** *Materiales para Sensores: una Perspectiva de Manufactura*, Luis M. Solá, Senior Research Scientist, Dupont Electronics, Manatí, Puerto Rico		
14:30	Coffee Break		
15:00	**Session 6**: Biomedical Applications 2 **Room**: **A** **Leader:** Wilfredo Otaño, UPR-Cayey, Puerto Rico	**Session 7**: Materials/Fab/Industrial **Room**: **B** **Leader**: Josee Vedrine, UPR-Humacao, Puerto Rico	**Session 8**: Microfluidics/MTAS/Systems **Room: C** **Leader**: Julián Alonso Chamorro, UAB, España
15:00	**IB12-25**: Difusão de Fármacos Monitorizada em Tempo Real por um Sensor de Ondas Acústicas, C.A.M. Oliveira, M.I.S. Veríssimo, J.A.B.P. Oliveira, M.T.S.R. Gomes, CESAM-UA, Portugal	**IB12-77**: Encapsulation Procedure of ISFETs for Integration in LTCC Substrates, M.de O. Igarashi, V.F. Cardoso, Z.M. da Rocha, S.G. dos Santos Filho, C. Jiménez-Jorquera, and A.C. Seabra, USP/IMB-CNM(CSIC), Brasil/España	**IB12-44**: 3-D LTCC Microfluidic device as a tool for studying nanoprecipitation, J.N. Schianti, N.P.N, Cerize, A.M. Oliveira, S. Derenzo, and M.R. Góngora-Rubio, LSI-EPUSP/IPT, Brazil
15:20	**IB12-31**: Diseño y Construcción de una Plataforma Experimental para la Caracterización de Flujo Sanguíneo, J. Solano González, I. Sánchez Domínguez, M. Vázquez Hernández, M. Fuentes Cruz, E. Díaz Nacar y F. García Nocetti, UNAM-IIMAS, México	**IB12-01**: Optoelectronic Logic Architecture based on SiC Multilayer Structures, M. Vieira, M.A. Vieira, P. Louro, V. Silva, and M. Barata, ADEETC-ISEL/CTS-UNINOVA/DEE-FCT-UNL, Portugal	**IB12-86**: Technological Process for a Silicon/Glass Microsystem Fabrication towards Cell Culture Applications, C. Jiménez-Jorquera, E. González, I. Burdallo, and J.A. Plaza, IMB-CNM (CSIC)/CIME, Spain/Cuba
15:40	**IB12-36**: Electrodes for Bio-Application: Recording and Stimulation, M.B.A. Fontes (A.N.R. da Silva), MPCE/DSE-FATEC-SP-CEETEPS, Brasil	**IB12-93**: Low Temperature Co-fired Ceramic for Self-packaged EDL Super Capacitors Applications, H.K. Sahoo, T.S. Jones, M. Smith, and J.J. Santiago-Avilés, UPENN, USA	**IB12-45**: Towards the Development of Vacuum Pressure Sensor Based on CNT-Si Field Emission Devices, M.O.S. Dantas, E. Galeazzo, H.E.M. Peres, and F.J. Ramirez-Fernandez, CECS-UFABC/LME-EPUSP, Brazil
16:00	**IB12-87**: Citotoxicidad y Genotoxicidad de Nanoparticulas de SiO_2 y TiO_2 In Vitro, F. Pastrana, D. Narvaez, H. Groot, A. Avila, F. Muñoz y F. Cuellar, UniAndes, Colombia	**IB12-57**: Development of Microsensors and Applications under the INCT NAMITEC Network, J.W. Swart, J.A. Diniz, S. Moshkalev, and J.F. de Souza, FEEC-CCS-UNICAMP/ CTI, Brazil	**IB12-92:** Portable, $5 Microfluidics Laboratory for Outreach Program, R. Pérez-Castillejos, A.B. Shrirao, A. Raman, E. Ryll, A. Disame, and H. Talasan, NJIT/Marlboro HS, USA
16:20	Posters Setup		
16:30	Poster Session: **Prefunction Area**		
19:30	Dinner Banquet: **Ballroom**		

Friday, October 19, 2012			
08:00	Registration Opens: **Prefunction Area**, Embassy Suites Hotel		
09:00	**Plenary Lecture 4**: **Ballroom** *Challenges and Opportunities of Ocean Color Remote Sensing in Caribbean Coastal Waters* Prof. Fernando Gilbes Santaella, Department of Geology and Center for Hemispherical Cooperation in Research and Education in Engineering and Applied Science, University of Puerto Rico, Mayagüez Campus		
10:00	Coffee Break		
10:30	**Session 9**: Optical Sensors 2 **Room**: **A** **Leader**: Pablo Negrón Marrero, UPR-Humacao, Puerto Rico	**Session 10**: Environmental and Biomedical Applications **Room**: **B** **Leader**: Mariano Aceves-Mijares, INAOE, México	**Session 11**: Intelligent/wireless/signal conditioning **Room**: **C** **Leader**: José O. Sotero Esteva, UPR-Humacao, Puerto Rico
10:30	**IB12-18**: Wavelength Division Multiplexing Device based on a-SiC:H, P. Louro, M. Vieira, M.A. Vieira, V. Silva, and A. Fantoni, ISEL, CTS-UNINOVA, DEE-FCT-UNL, Portugal	**IB12-26**: Determinação de Sulfato e Cloreto em Águas de Consumo com um Sensor Acústico, L. V. L. Venâncio, and M.T.S.R. Gomes, CESAM-UA, Portugal	**IB12-22**: HSense: A High Performance Framework for Distributed Weather Sensor Networks, J.A. Ortiz, N. Santiago, and J.G. Colom, UPRM, Puerto Rico
10:50	**IB12-28**: Sensor de Temperatura Multipunto empleando Rejillas de Bragg con Interrogación Multiplexada en Tiempo, A. Santiago-Toledo, Y. Bracamontes-Rodríguez, J. Castillo-Mixcóatl, G. Beltrán-Pérez y S. Muñoz-Aguirre, BUAP-FCFM, México	**IB12-15**: A Silver Ion LTCC-based Microanalyzers for the Control of Water Reutilization Processes in Manned Aerospace Missions, E. Arasa-Puig, J. Andrade, C.S. Martínez-Cisneros, and J. Alonso-Chamarro, UAB, España	**IB12-42**: Electronic Design of Mandragora's Wireless Sensor Networks Motes, F.G. Flores García, V.D. Velasco Martínez, and M. de J. Flores Medina, ITL, México
11:10	**IB12-90**: Use of a Laser Fiber Source Implemented with a Resonator Sagnac, For Fiber Optic Sensors, G.E. Sandoval-Romero, and E. F. Pinzón-Escobar, UNAM-CCADET, México	**IB12-50**: DEMUTOX-Sensor: Kits for Multi-Toxin Detection, G. Istamboulie, F. Catanante, A. Sassolas, Y. Daviddi, and J.L. Marty, UPVD, France	**IB12-76**: Sistema Inalámbrico de Medición de CO con Interfaz sobre Teléfono Inteligente, D. Santiago Flechas, N.M. Peña y F.E. Segura-Quijano, UniAndes, Colombia
11:30	**IB12-62**: Sensor de Temperatura Basado en un Láser de Fibra Optica, M. Durán-Sánchez, E. Kuzin, B. Ibarra-Escamilla y A. González-García, ITP/INAOE, México	**IB12-71**: Synthesis, Characterization and Use of Ru-Fc Intercalation Complex as an Electrochemical Label for the Detection of Pathogen-DNA, M. Díaz-Serrano, A. Rosado, D. Santana, E.Z. Vega, and A.R. Guadalupe, UPRRP/ UPRH, Puerto Rico	**IB12-04**: A Field Measurement Approach for LTE (4G) Wireless Networks Performance Monitoring, J. Nascimento, P. Vieira, and M. Vieira, ADEETC-ISEL/IT/CTS-UNINOVA, Portugal
12:30	Lunch: **La Vista Room**		
14:00	Conference Closing		

Poster Presentations

Leader: Ramón Rivera, UPR-Humacao, Puerto Rico

Nanosensors

IB12-09	Hydrogen Sensors with TiO_2 and TiO_xN_y Nanotubes, K.F. Albertin, T.C. Bohn, T.M. Fraga, and I. Pereyra, CECS-UFABC/LME-PSI-EPUSP, Brazil
IB12-43	Devices and Sensors based on PVDE-TrFe/SWCNT's Composites, M. Bonilla, I. Ramos, and N. Pinto, UPRH, Puerto Rico-
IB12-51	Synthesis of ZnO Fibers doped with Al for Gas Sensors, L. Amadeo, N. Granda, V. Pantojas, and W. Otaño, UPRC, Puerto Rico
IB12-56	Label-free Impedimetric Detection of Copper based on DNAzyme Biosensor, C. Ocaña, N. Malashikhina, V. Pavlov, and M. del Valle (A. Alegret), GSB-UAB, Spai

Chemical Sensors

IB12-08	Caracterización de Fibras a Base de Óxido de Estaño en la Estequiometría $Sn_{1-x}Fe_xO_2$ para Aplicaciones como Sensor de Gases, J. Rodríguez, I. Abrego, A. Watson, and E. Ching, CyT-UTP/CNET-UP, Panamá
IB12-14	Detección Colorimétrica de Cobalto utilizando Micro-Sistemas de Análisis, O.N. Bustos-López, C.S. Martínez Cisneros, J. Alonso Chamarro, F. Valdés Perezgasga y H.A. Moreno Casillas, ITL/UAB, México/España.
IB12-16	Caracterização de Filmes Finos de SnO_2 obtidos por Oxidação Térmica do Estanho, L. da S. Zambom, M.B.A. Fontes (A.N.R. da Silva), F.T. Degasperi, and R.D. Mansano, MPCE-DSE/FATEC-SP/CEETEPS/DEE-PSI-EPUSP, Brasil
IB12-33	Effect of Organic Vapor in Porphyrin Devices, L.E.G. Armas, M.F.G. Huila, H.E.M. Peres, F.J.R. Fernandez, M.A. Valle, K. Araki, H.E. Toma, A.D. Santos, and A.C. Seabra, LSI-LME-PSI-EPUSP/IQ-IF-USP, Brazil
IB12-34	Effect of Gate Voltage in Porphyrin Film Sensors, M.F.G. Huila, L.E.G. Armas, H.E.M. Peres, F.J.R. Fernandez, M.A. Valle, K. Araki, H.E. Toma, A.D. Santos, and A.C. Seabra, LSI-LME-PSI-EPUSP/IQ-IF-USP, Brazil
IB12-64	Uso de Transistores de Porta Suspensa para Medidas de pH, B. da Silva Rodrigues, O. De Sagazan, S. Crand, T. Mohammed-Brahim, and N.I. Morimoto, GM-IETR-UMR-CNRS/LSI-USP, France/Brasil

Optical Sensors

IB12-21	Determination of the Generation Time in Optical Sensors Based on Metal-Oxide-Semiconductor Capacitors, O. Malik, and F.J. De la Hidalga-W., INAOE, México
IB12-37	Caracterización de un Sensor Laser Empleando la Frecuencia de Batido Fundamental, O. Méndez-Zepeda, S. Muñoz-Aguirre, G. Beltrán-Pérez y J. Castillo-Mixcóatl, BUAP-FCFM, México
IB12-91	Comparative Broadband Fiber Amplifier, E.F. Pinzón-Escobar, and G.E. Sandoval-Romero, UNAM-CCADET, México

Materials, Fabrication, and Packaging Techniques for Sensors

IB12-38	Adsorbent Composites Used on Mixing in Miniaturized Structures, L.F. Hernandez, A.R. Leite, R.R. Lima, M.L.P. Silva, and E.R. Fachini, EP-IF-USP/CEETEPS/UPRRP, Brazil/Puerto Rico
IB12-39	Small and Simple Devices to Increase Mixing on Detector Surfaces, L.F. Hernandez, A. A. Jesus, R.R. Lima, E.R. Fachini, and M.L.P. Silva, EP-IF-USP/CEETEPS/ /UPRRP, Brazil/Puerto Rico
IB12-52	Influencia de la Granulometría en la Síntesis de Cerámicos AZO, C. Vera, S. Maioco, N. Rajchenberg y R. Aragón, LPD-FI-UBA/CINSO-CITEDEF-CONICET, Argentina

Signal Conditioning and Instrumentation

IB12-40	Diseño de un Frecuencímetro de Alto Desempeño para Sensores de Gas basados en Resonador de Cuarzo, J. L. Muñoz-Mata, S. Muñoz-Aguirre, G. Beltrán-Pérez y J. Castillo-Mixcóatl, BUAP-FCFM, México
IB12-54	Sistema Portable de Medición para Microsensores tipo FETs basado en un Microcontrolador PsoC, D. Garnier Fernández, O. Arias de Fuentes, A. Blanco, A. Durán, y C. Jiménez, ISPJAE/IMRE/IMB-UAB, Cuba/España

Intelligent Sensors and Wireless Networks

IB12-53	Implementación de un Sistema de Adquisición de Datos con Comunicación Inalámbrica para Tres Microsensores Tipo CHEMFET, F. Pérez, C. Jiménez, E. Valdés, and O. Arias de Fuentes, GEDEME/CIME-CUJAE/IMRE-UH/IMB-UAB, Cuba/España
IB12-70	Aplicación de Puertas de Enlace en Topologías de Redes Zigbee, H. Coto-Fuentes, F. Valdés-Perezgasga y E.E. Valdés-Zaldivar, ISP/ITL, Cuba/México

IB12-85	Qualitative Analysis of Brandies by Means of a Voltammetric Electronic Tongue, X. Cetó, M. Llobet, J. Marco, S. Alegret, and M. del Valle, GSB-UAB/Miguel Torres SA, Spain

Microfluidics and Micro-Total-Analysis-Systems

IB12-19	Continuous Flow Analytical Microsystem for Ammonium Determination Incorporating a Gas-Diffusion Membrane and Potentiometric Detection, A. Calvo, O. Ymbern, and J. Alonso, GSB-UAB, Spain
IB12-20	Construction and Characterization of Ceramic Optical Detection Flow Cells based on the Low Temperature Co-fired Ceramics Technology, P. Couceiro, S. Goméz-de Pedro, A. Dias, and J. Alonso-Chamarro, GSB-UAB, Spain
IB12-69	Mixing Platform for the Control of Magnetic Beads in Microfluidic Applications, M. Berenguel, J. Alonso, and M. Puyol, GSB-UAB, Spain
IB12-75	Colorimetric Determination of Free Sulfur Dioxide in a Centrifugal Microfluidic Disk with Integrated Gas-Diffusion Membrane and Integrated LED Optical Detection, O. Ymbern, N. Sández, T.M. Guimarães, and J. Alonso-Chamarro, GSB-UAB, España

Sensors for Agricultural/Environmental Applications

IB12-07	Wireless Sensor Network based on Green Tape Technology for in-Soil Nutrients Monitoring, C.S. Martínez-Cisneros, A. Torre-Neto, A.R. Araujo, A. Parra, and J. Alonso-Chamarro, GSB-UAB/Embrapa, Spain/Brazil
IB12-46	Determination of Heavy Metals Contamination using Optoelectronic Techniques, M. Aceves-Mijares, J.M. Ramírez, J. Pedraza, and C. Chávez, INAOE, México
IB12-47	Efectos Estacionales en los Niveles de Arsénico de Pozos Urbanos de la Comarca Lagunera, A.U. Aguilar-Muñiz, F. Valdés-Perezgasga y G.G. García-Vargas, ITL/UJED, México
IB12-58	Chemical Wireless Sensor Network for pH Remote Monitoring, C. Manjarrés, D. Garizado, M. Calle, and C. Jiménez, DIEE-UN/ IMB-CNM-CSIC-UAB, Colombia/Spain
IB12-63	Fabrication of Phosphorus Doped Polysilicon Thin-Film Strain Gauges Using a 50 Microns Silicon Substrate Thickness, A.L. Siarkowski and N.I. Morimoto, LSI-EPUSP, Brazil
IB12-81	Sistema de sensado ultrasónico para la medición de evaporación de agua con transmission sin cables (inalámbrica), F.G. Flores García y J.V. Castañeda García, ITL, México

Biomedical Applications

IB12-05	A PVDF Transducer Array to Measure Temperature Gradients in a Soft Tissue Phantom, M. Vázquez Hernández, P. Acevedo Contla, A.J. Durán Ortega, and J.J. Méndez Martínez, UNAM-DISCA-IIMAS, México
IB12-59	Multiplex Electrochemical Genosensing of Pathogenic Bacteria by using Silica Magnetic Particles, S. Liébana, S. Campoy, P. Cortés, S. Alegret, and M. I. Pividori, GSB-UM-UAB, Spain
IB12-60	Phagomagnetic Separation and Electrochemical Detection of Pathogenic Bacteria, S. Liébana, D. Spricigo, P. Cortés, M. Llagostera, S. Alegret, and M. I. Pividori, GSB-UM-UAB, España
IB12-66	Multiplex Immunosensing Detection of Pathogenic Bacteria, D. Brandão, S. Liébana, S. Campoy, S. Alegret, and M.I. Pividori, GSB-UM-UAB, España
IB12-67	Magneto Biosensing of $CD4^+$ T cells for Clinical Diagnosis, S. Carinelli, C. Xufré Ballesteros, M. Martí, S. Alegret, and M.I. Pividori, GSB-IBB-UAB, Spain
IB12-79	Development of an Electrochemical Biosensor for the Detection of an ADP-Ribosylating Toxin, Exo A from *Pseudomonas aeruginosa,* Y. Enríquez, Y. Negrón, and A.R. Guadalupe, UPRRP, Puerto Rico
IB12-82	Magneto Immunosensor for *Plasmodium Falciparum* Histidine-rich Protein 2 Related to Malaria, M. De Souza-Castilho, T. Laube, H. Yamanaka, S. Alegret, and M. I. Pividori, UNESP-UEP/GSB-UAB, Brazil/Spain
IB12-83	Biotinylated Bacteriophages as Nano-labels for *Salmonella* Biosensing, T. Laube, M.P. Cortés, M. Llagostera, S. Alegret, and M. I. Pividori, GSB-UM-UAB, Spain
IB12-88	Electrochemical magneto immunosensor for the detection of anti-TG2 antibody in celiac disease, S. Kergaravat, S. Alegret, M.I. Pividori, S.R. Hernández, LSB-UNL/GSB-UAB, Argentina/Spain