

	Oct. 15 (Wed)	Oct. 16 (Thu)	Oct. 17 (Fri)	Oct. 18 (Sat)
8:00 - 8:30		Registration		
8:30 - 9:00		Opening ceremony Salón Estelar		
9:00 - 10:00		Keynote speaker: DARIO ZAPPA (ITALY) Metal oxide nanowires for new generations of chemical sensors Salón Estelar	Keynote speaker: DAVID ATIENZA (SWITZERLAND) Ultra-Low Power Wireless Body Sensor Networks for Smart Bio-Signals Monitoring Systems Salón Estelar	Keynote speaker: JOHANN OSMA (CMUA - COLOMBIA) Developing Sensors for the modern society: cases of study of front-end strategies Salón Estelar
10:00 - 10:30		Coffe Break	Coffe Break	Coffe Break
10:30 - 11:30		Keynote speaker: LAURA M. LECHUGA (SPAIN) Point-of-care nanobiosensors for global health diagnostics: challenges and opportunities Salón Estelar	IBERSENSOR SESSION 5: Techniques, methods, simulations Salón Estelar	IBERSENSOR SESSION 7: Preliminary studies on nanomaterials applications. Micro and Nano Sensors Salón Estelar
			ID. 68: Microwave Impedance Microscopy of High Specific Surface Area Carbon Timothy Jones, Carlos Pérez, Keith Jones and Jorge Santiago-Aviles	ID. 52: Nanomateriales, riesgos, seguridad y salud ocupacional en investigación y producción Homero Fernando Pastrana Rendón, Alba Graciela Avila Bernal and Felipe Muñoz
			ID. 74: Offset reduction in a multiple-terminal Hall plate using current spinning Jose Ramirez and Fabiano Fruett	ID. 7: Chitosan-Au nanocomposite: preliminary studies of its potential application in electrochemical sensors Melissa Valenzuela, Olimpia Arias de Fuentes, Evgen Prokhorov and Gabriel Luna-Barcoenas
			ID. 56: Proof of concept for a permittivity detector based on the leaky wave radiation of a CRLH transmission line Maria Jose Cadena, Omar Ariel Nova Mansalva and Alba Graciela Avila Bernal	ID. 9: Chitosan/bentonite nanocomposite: preliminary studies of its potentiometric response to nitrate ions in water Moises Oviedo Mendoza, Erika Padilla Ortega, Olimpia Arias de Fuentes, Evgen Prokhorov and Gabriel Luna-Barcoenas
			ID. 38: Simulation of a pVDF transducer array using the Finite Element Method (FEM) to measure temperature gradients in a soft tissue phantom Pedro Acevedo, Mónica Vázquez Hernández, Adalberto Duran and Rodolfo Petreareo	ID. 16: Electrospun Nanofibers with Copper Phthalocyanine for detecting Ammonia Demetrius Saravia Gomes and Ana Nelide Rodrigues Da Silva
		IBERSENSOR SESSION 1: Sensor Design Salón Estelar	IBERSENSOR SESSION 2: Gas Sensors Salón Jones	ID. 30: pH sensors based in TiO2 NTs arrays Pamela Arruda, Gleydson Monteiro, Inês Pereyra and Katia Albertin
11:30 - 12:30	TUTORIAL 1: Simulación de microsistemas fluidicos y electrónica de inducción pasiva. Edificio Mario Laserna Sala TUPARRO ML-208 Universidad de los Andes	ID. 50: Design and Implementation of a Planar Capacitive Pressure Sensor Edgar Alberto Unigaino, Alvaro Uriel Achury, Juan Carlos Bohorquez, Jordi Sacristán, Riquelme and Fredy Segura-Guzmán	ID. 36: Electronic Transport Calculation for a Selective Gas Sensor Based on an InAs/InP Triple Barrier Heterostructure Sebastian Calcedo-Davila, Jose Ferrer Rivera and Jaime Velasco-Molina	ID. 25: Auto-Adjustable Low-Signal Processing Technique Based On Programmable Mixed-Signal SoCs John Jairo Cabrera Lopez and César Augusto Romero Beltrán
		ID. 86: Wireless Zero-Power Small Displacement Sensors Nathalie Caron and Jordi Aguiló Llobet	ID. 44: Design and Implementation of a Portable Infra-red sensor for Hydrogen Sulfide (H2S) Maria Camila Guachetá Buendía, Adriana Paola Ascencio Riveros and Johann F. Osma	ID. 10: Experimental Evaluation of Energy Efficient Algorithms for WSN Using Variable Transmission Powers Jose Mauricio Navia, Jose Roberto Boisson de Marca and Adriano Branco
		ID. 37: Design of an angled ultrasonic transducer for blood flow measurement applications Pedro Acevedo and Israel Sánchez	ID. 42: MOx based ZnO sensor for the detection of H2S. Adriana Paola Ascencio Riveros, Susana Marcela Silva Oviedo, Jorge Gamarra and Johann F. Osma	ID. 75: Multisensor system based on microsensors applied to the analysis of wine Manuel Gutiérrez-Capitán, Jordí Vila-Planas, Andreu Llobera, Fina Capdevila, Carme Domingo, Anna Puig-Pujol and Cecilia Jimenez-Jorquera
		ID. 23: Rapid and label-free differentiation of bacterial strains using low frequency electrochemical impedance spectroscopy M. Celina Bonetto, Diego Slicker, Verena Charwat, Natalia J. Sacco, Astrid Hilding Ohlsson, Peter Ertl and Eduardo Cortón	ID. 24: An electronic and transportable nose for environmental gases monitoring based on mixed-signal SoC and open hardware John Jairo Cabrera Lopez, Manuel Latorre and Pablo Maja	ID. 71: Sensor Based State Estimation For Stirred Tank Reactors in Chemical Industry And For PMUs in Angle Controlled Power Systems Juan Federico Vila Sierra, Sara Taborda and Carlos Mario Florez Ramirez
12:30 - 14:00	Registration for tutorials	Lunch	Lunch	Closing
14:00 - 15:00		IBERSENSOR SESSION 3: Applied sensors on Health Salón Estelar	Keynote speaker: CECILIA JIMENEZ (SPAIN) Microsensors & microsystems for bioanalysis applications. Present and future prospects Salón Estelar	
		ID. 84: Towards an Objective Measurement of Emotional Stress Jorge Mario Garzón, Adriana Arza and Jordi Aguiló		
		ID. 12: Detection of pathogenic bacteria using immunofiltration and LightScribe technology Natalia J Sacco, Miquel Àvila-Oliver, Sergi Morais, Eduardo Cortón, Rosa Puchades and Àngel Maquieira		
		ID. 5: Advances in the development of a Piezoelectric Immunosensor for the detection of a tuberculosis biomarker Marisol Jaramillo, Paula A. Marin, Robinson A. Torres, Elizabeth Pabón, Yelson Montaguá, Jaime Robledo, María J. Moreno, Juan J. Mancías and Àngel Montoya		
		ID. 66: Diseño de un biosensor gravimétrico utilizando deposición de capas de polielectrolitos para detección de tuberculosis Cristina Pelaez, Alejandro García, Patricia Del Portillo and Oscar L. Herrera S.		
		ID. 85: Patient Empowerment and Stress reduction Adriana Arza Valdés, Jorge Mario Garzon, Montse Nuevo Gayoso and Jordi Aguiló Llobet	Keynote speaker: JORGE J. SANTIAGO-AVILES (USA) Power to distributed sensors, the importance of carbonaceous materials Salón Estelar	
		ID. 91: Photonic lab-on-a-chip with environmental light correction for in situ determination of enteric pathogen contamination Pablo Gimenez, Jordi Sacristán, Nidia Santamaría, Ferran Puig, Nuria Vigués, Cecilia Jimenez, José Mas and Xavier Muñoz-Berbel		
		ID. 73: Aplicación de un Sistema Domestico Portable Multisensor para Diagnostico General Biométrico John Heiler Martinez Cubillos and Natalia Andrea Barbosa Pabon		
		ID. 69: Water-in-diesel nanoemulsion by LTCC microfluidic devices Juliana de Novais Schiani, Thais Araújo Horowitz, Natália Neto Pereira Cerize, Adriano Marim de Oliveira and Mario Ricardo Gongora Rubio		
15:00 - 16:00	TUTORIAL 2: Simulación de micropositivos en nananHS.org Mario Laserna Sala WAIRA 2 ML-612 Universidad de los Andes			
16:00 - 16:30	Coffe break	Coffe Break	Coffe Break	
		IBERSENSOR SESSION 4: Sensor Aplications Salón Estelar	IBERSENSOR SESSION 6: Intelligent sensors & wireless networks Salón Estelar	
		ID. 72: Application of SH771 Sensor to Measure Humidity and Temperature with a WSN Juan Carlos Suárez Barón and Marco Javier Suárez Barón	ID. 55: Effects of CGI Feedback for 4G-LTE Networks Juan Torres and Roberto Bustamante	
		ID. 58: Implantable intraocular pressure sensor using principles of electromagnetic radiation Andrés Poloché, Juan Carlos Bohorquez, Fernando Ramirez Rodriguez, Edgar Alberto Unigaino, Alvaro Achury, Fredy Segura-Guzmán	ID. 76: Stripping voltammetric detection of trace heavy metals using gold ultramicroelectrode arrays Manuel Gutiérrez-Capitán, Antoni Baló, Raquel Gómez-Gutiérrez, Virginia García, Cecilia Jimenez-Jorquera and César Fernández-Sánchez	
		ID. 61: Use of sensors in cheese manufacture and quality control Elvira M. Gaspar, João B.P. Oliveira and Maria Teresa S. R. Gomes	ID. 82: Development of analytical microsystems for space applications Mar Puyol, Antonio Calvo López, Eva Arasa, Oriol Ymbert Llorens, Sara Gómez de Pedro, Joan Manel Casalta and Julian Alonso Chantano	
		ID. 22: Design and fabrication of a sensor for explosives as a first step to an IED detection device Susana M. Silva, Jorge D. Gamarra, Cesar A. Hernandez and Johann F. Osma	ID. 39: Optical label-free SPR immunosensor for the rapid detection of Bisphenol A in canned food Melissa M. Rodriguez-Delgado, M.-Carmen Estevez, Àngel Montoya, Juan J. Mancías, Nancy E. Ornelas-Soto, Roberto Para-Saldiver and Laura M. Lechuga	
		ID. 57: Dispositivo Intracelular opto-mecánico Rodrigo Gómez-Martínez, Alberto M Hernández-Pinto, Marta Duch, Patricia Vazquez, Kiril Zinoviev, Enrique J. De La Rosa, Jaume Esteve, Teresa Suarez and José A. Plaza	ID. 48: Array of Cu(II)/Pb-Au Microelectrodes for Nitrite Measurement Fernando Almeida and Sebastião Santos Filho	
		ID. 67: Blood glucose quantification based on portable embedded SoC system in IR spectrum Julian Andres Romero, Jhon Edward Vargas, John Jairo Cabrera and Faruk Fonthal		
17:30 - 18:30		Poster Session Salón Jones	Cocktail	
		Dinner		