



LAWEM08

LATIN AMERICAN WORKSHOP ON ELECTRON MICROSCOPY

MATERIAL AND LIFE SCIENCES, MICROELECTRONICS AND E-BEAM LITHOGRAPHY

JUNE 30TH - JULY 1ST, 2008 | SALGUERO PLAZA, BUENOS AIRES, ARGENTINA | WWW.LAWEM08.COM.AR

First Latin American Workshop on Electron Microscopy: Material and Life Sciences, Microelectronics and E-Beam Lithography

30 de junio al 1 de julio
Centro Salguero Plaza
Jerónimo Salguero 2686
Buenos Aires

Centro de Microscopías Avanzadas (FCEyN-UBA) – Carl Zeiss NTS/Alemania

PROGRAM

Monday June 30

09:00-09:40	Registration
9:40	<i>Opening remarks</i>
10:00-10:40	Peter Fruhstorfer (Carl Zeiss NTS/ Alemania) <i>"The future of nanotechnology"</i>
10:40-11:20	Daniel Ugarte (Laboratorio Nacional de Luz Sincrotrón, Campinas, Brasil) <i>"In situ HRTEM: application to atomic-size metal wires"</i>
11:20-12:00	Francisco Capani (Facultad de Medicina, Universidad de Buenos Aires, Buenos Aires, Argentina) <i>"Biological applications of electron tomography: 3-D organization of actin cytoskeleton in synapses"</i>
12:00-14:30	<i>Lunch break</i>
14:30-15:10	Horacio Troiani (Centro Atómico Bariloche, Bariloche, Argentina) <i>"Studies in manganite nanostructures by TEM and magnetic measurements"</i>
15:10-15:50	Miguel Fornés (Instituto de Histología y Embriología de Mendoza, Universidad Nacional de Cuyo-CONICET, Mendoza, Argentina) <i>"Sperm maturation during epididymal transit"</i>
15:50-16:00	<i>Coffee break</i>
16:00-16:40	Alfredo Tolley (Centro Atómico Bariloche, Bariloche, Argentina) <i>"Characterization of metallic alloys with TEM"</i>
16:40-17:20	Alicia Torres (Centro de Microscopía Electrónica, Universidad Nacional de Córdoba, Córdoba, Argentina) <i>"Ultrastructural features and molecular markers to evaluate the biological activity of lactotroph cells"</i>
17:20-17:30	<i>Coffee break</i>



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17:30-19:00 **Mesa Redonda “Nanotecnología: un desafío para Argentina”**

Dr. José Lino Barañao, *Ministro de Ciencia Tecnología e Innovación Productiva*

Dr. Carlos Balseiro, *Coordinador de la Red Argentina de Nanociencia y Nanotecnología:
Materiales Nanoestructurados y Nanosistemas (MaN)*

Dr. Roberto Salvarezza, *Coordinador argentino del Centro Argentino-Brasileño de
Nanociencia y Nanotecnología (CABNN)*

Dr. Ernesto Calvo, *director del INQUIMAE(UBA-CONICET)*

19:00 *Cocktail*

Tuesday July 1

09:00-09:40 Paulo Fichtner (DEMET, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brasil)
“Nanostructuring thin films and interfaces for photonic and Electronic applications”

09:40-10:20 Patricia Bozzano (Centro Atómico Constituyentes, Buenos Aires, Argentina)
“Microstructural characterization of irradiated Zry-4”

10:20-10:40 *Coffee break*

10:40-11:20 Alberto Caneiro (Centro Atómico Bariloche, Bariloche, Argentina)
“Scanning Electron Microscopy: principles, improvements and applications”

11:20-12:00 Antonio Casares (Carl Zeiss NTS/ Alemania)
“Cross-beam: technology and applications”

12:00-14:30 *Lunch break*

14:30-15:10 Hernán Pastoriza (Centro Atómico Bariloche, Bariloche, Argentina)
“SEM based e-beam lithography”

15:10-15:50 Raúl Bolmaro (Instituto de Física Rosario, Universidad Nacional de Rosario, Rosario, Argentina)
“What to do with the humongous amount of numerical data you can obtain from an EBSD experiment?”

15:50-16:00 *Coffee break*

16:00-16:40 Viviana Sorrivas (SECEGRIN, Centro Científico Tecnológico CONICET, Bahía Blanca, Argentina)
“Electron Microscopy: Some applications in food microstructure studies”

16:40-17:20 M.Claudia Marchi (Centro de Microscopías Avanzadas, FCEyN-Universidad de Buenos Aires, Buenos Aires, Argentina)
“Characterization of nanomaterials by SEM”

17:20-17:30 *Coffee break*



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- 17:30-18:10 Patricia Sarmiento (Fac. Ciencias Naturales y Museo, Universidad Nacional de La Plata, La Plata, Argentina)
"Applications of the Scanning Electron Microscopy to Biological Sciences"
- 18:10- 18:50 M. del Rosario Torres Deluigi (Laboratorio de Microscopía Electrónica y Microanálisis, FCFMN, Universidad Nacional de San Luis, San Luis, Argentina)
"Characterization of Minerals by means of EDS and WDS spectrometers attached to a SEM"
- 19:00 **Concluding remarks**

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