

# IAMNANO 2014

International Workshop on Advanced and In-situ Microscopies of Functional Nanomaterials and Devices  
PUC-Rio, Rio de Janeiro, Brazil  
July 6-8, 2014



## Topics

- Imaging with advanced methods of aberration-corrected electron microscopy
  - Spectroscopic characterisations of materials properties
- In situ microscopy ● Surface probe techniques ● Diffraction techniques ● Precision sample preparation
- Applications to characterisation of functional nanomaterials and devices, thin films, surfaces and interfaces: metals, semiconductors, superconductors, magnetic materials, nuclear and composite materials

## Invited Speakers

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|---|--|
| Harald Rose (University of Ulm - Germany)<br><i>Aberration-correction, history</i>          | Eva Olsson (Chalmers University - Sweden)<br><i>In Situ and soft microscopy</i>                        |
| Max. Haider (CEOS Heidelberg - Germany)<br><i>Correctors, monochromators</i>                | Bert Freitag (FEI Nanoport, Holland)<br><i>CHEM STEM</i>   |
| Dave Smith (Arizona State University - USA)<br><i>HRTEM semiconductors</i>                  | James Wittig (Vanderbilt University Nashville - USA)<br><i>Steels</i>                                  |
| Molly McCartney (Arizona State University - USA)<br><i>Magnetic materials and devices</i>   | Wolfgang Jaeger (Christian-Albrechts-Univ. Kiel - Germany)<br><i>TEM of solar cell materials</i>       |
| Fernando Ponce (Arizona State University - USA)<br><i>Semiconductors, CL</i>                | Guillermo Solórzano (PUC-Rio Rio de Janeiro - Brazil)<br><i>Phase transformations nanoscale</i>        |
| Gianluigi Botton (McMaster University, Canada)<br><i>EELS</i>                               | Marcos Farina (UFRJ, Rio de Janeiro - Brazil)<br><i>Biom mineralization</i>                            |
| Grace Burke (University of Manchester - UK)<br><i>Nuclear materials</i>                     | Braulio Archanjo (Inmetro, Rio de Janeiro - Brazil)<br><i>FIB nanomanufacturing</i>                    |
| Juan-Carlos Idrobo (Oak Ridge National Lab, USA)<br><i>STEM single atom spectroscopy.</i>   | Kildare Miranda (Biophysics, UFRJ, Rio de Janeiro - Brazil)<br><i>Electron tomography of parasites</i> |
| Gema Gomez (IVIC, Venezuela)<br><i>Magnetic Nanoparticles</i>                               | Daniel Ugarte (Unicamp, Campinas - Brazil)<br><i>In situ straining of atomic columns</i>               |
| John Mansfield (University of Michigan, USA)<br><i>M&amp;M in art and cultural heritage</i> | Paulo Fichtner (UFRGS, Porto Alegre - Brazil)<br><i>Ion Implanted materials</i>                        |
| Seiji Takeda (Osaka University - Japan)<br><i>Surfaces, in situ TEM</i>                     | Gilberto Medeiros (UFMG, Belo Horizonte - Brazil)<br><i>AFM nanotech</i>                               |
| Leonardo Basile (ORNL and EPN, Ecuador)<br><i>- Graphene heterostructure</i>                | Fernando Stavale (CBPF, Rio de Janeiro - Brazil)<br><i>STM luminescence spectroscopy</i>               |
| Brian Morfitt (Frazier Healthcare - USA)<br><i>How to create a start-up company?</i>        | Conrado Afonso (UFSCar, S. Carlos - Brazil)<br><i>Nanostructured Ti alloys</i>                         |
| Robert Sinclair (Stanford University - USA)<br><i>ETEM</i>                                  | Antonio J. Ramirez (LNNano-CNPq, Campinas, Brazil)<br><i>Solving nanostructures by EM/ modeling</i>    |

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