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Boletim N° 33. Maio de 2019
Sociedade Brasileira de Microscopia e Microanálise

27º Congresso Brasileiro de Microscopia



25 a 28 de agosto de 2019 • HOTEL MARAPENDI • Rio de Janeiro - RJ



O Congresso Brasileiro de Microscopia engloba as mais diversas técnicas de microscopia e microanálise aplicadas às áreas biológicas e de materiais, sendo o evento mais importante da área no país. Este ano, o congresso contará com sessões plenárias proferidas por pesquisadores de renome, simpósios temáticos, sessões de pôsteres, palestras técnicas, hall de expositores e programação social. Também teremos a reunião dos Centros e Laboratórios de microscopia nacionais. Adicionalmente, diversos cursos satélites serão oferecidos através das infraestruturas dos centros de microscopia locais! Aproveite!

Não deixe de submeter o seu resumo em <http://eventus.com.br/csbmm2019>

PALESTRA DE ABERTURA

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SESSÕES PLENÁRIAS



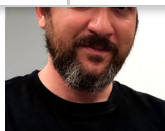
[Prof. Dr. Angus Kirkland](#) (University of Oxford, United Kingdom)
"Dynamic TEM Developments for Improved Understanding of Reactions and Processes in 2D Materials"



[Dr. Fabio Nudelman](#) (University of Edinburgh, United Kingdom)
"Characterizing the Structure and Functionality of Organic Matrices of Mineralised Tissues Using Cryo-electron Microscopy"



[Prof. Dr. Dagmar Gerthsen](#) (Karlsruhe Institute of Technology, Germany)
"Correlative STEM and SEM Imaging of Nanostructured Materials in a Scanning Electron Microscope"

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[Dr. José Javier Conesa](#) (ALBA Synchrotron Light Source, Spain)

"Cryo soft X-ray nanotomography for chemical elements detection in biological samples"



[Prof. Dr. Gianluigi Botton](#) (Mc Master University, Canada)

"New Developments in EELS at High Energy Resolution: exploring the impact of direct electron detectors, machine learning on functional materials research."



[Prof. Dr. Marin Van Heel](#) (CNPEM, BR/Leiden University, NL, Imperial College London, UK)

"Atomic Structures of Biological Macro-molecules by Single-Particle Cryo-EM"

SIMPÓSIOS – BIOLOGIA

B-01) TEM and STEM Imaging of Biological Samples

B-02) Scanning Microscopy Using Electrons and Ions

B-03) Analytical Electron Microscopy in Biology

B-04) Cryo-electron Microscopy and Structural Biology

B-05) Advances in Sample Preparation/Instrumentation and Techniques for Biological Sciences

B-06) 3D-reconstruction in TEM and SEM

B-07) Dynamic Cell and Molecular Biology

B-08) SPM for the Study of Biological Materials

B-09) Miscellaneous

Techniques: TEM, STEM, EELS, EDS, Spectrum Imaging, Electron Diffraction, SEM, FIB-SEM, HIM, Ion Microscopy, Scanning Strategies, Large Field SEM, TEM/STEM Tomography, Cryo-TEM, Analytical Cryo-TEM, Single Particle Reconstruction, Instrumentation for SPR, Direct Electron, Immunocytochemistry, Cryo-preparation Methods for Electron Microscopy, Cryo-tomography, SBF, Analytical Tomography, Light Microscopy, Live imaging, Intravital and Lightsheet Microscopy, Fluorescence Polarization and Quench

SIMPÓSIOS – MATERIAIS

M-01) Transmission Electron Microscopy and Spectroscopy of Nanostructured and Engineering Materials

M-02) Scanning Electron Microscopy, Microanalysis and 3D Techniques

M-03) Analysis and Modification of Materials with Electron and Ion Beams

M-04) Electron Diffraction Mapping in Materials Characterization in SEM and TEM

M-05) Correlative and Optical Microscopy Applications

M-06) Scanning Probe Microscopy (SPM) Applications

M-07) Any Other Techniques Related to Microscopy and Analysis

M-08) Electron Microscopy of Catalytic Materials

M-09) Electron Microscopy Techniques Applied to Metallurgy

Techniques: TEM, STEM, EELS, EDS, Spectrum Imaging, Diffraction, TEM/STEM Tomography, Synchrotron Techniques, SEM, Microprobe, EDS, WDS, Cathodoluminescence, Scanning Strategies, Stereo Microscopy, FIB-SEM, 3D Reconstruction, X-ray Tomography, Ion-microscopy, Microprobe, Ion Beam Techniques, EBSD, t-EBSD (TKD), Precession Electron Diffraction, Automatic orientation and phase mapping, Optical Microscopy, Metallography, Fluorescence Microscopy, Image Analysis, Correlative Microscopy, STM, AFM, TERS, Force Spectroscopy, Raman, Electron spectroscopy.

Palestrantes Convidados dos Simpósios – a confirmar

CURSOS PRÉ/PÓS-CONGRESSO

CBPF – JEOL

Curso Prático de Microscopia Eletrônica de Varredura: Aplicações em “Ultra Low kV”

INMETRO – THERMO FISHER

Microscopia Eletrônica de Transmissão Avançada: STEM Corrigido com EELS Monocromado.

INMETRO – ZEISS

Aplicações de Feixes de Íons Focalizados: do Gálio ao Hélio.

CENABIO/UFRJ – HITACHI

Princípios de Microscopia Eletrônica de Transmissão Biológica: Teoria e Prática

PUC/RJ

Introdução ao Processamento de Imagens 2D e 3D

PUC/RJ

Microscopia de Força Atômica

COPPE/UFRJ

a confirmar

- Cristalografia e Difração de Elétrons
- Por que EELS?

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PATROCÍNIO E APOIO



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