

11th-13th
September
2019



GRANADA
(SPAIN)



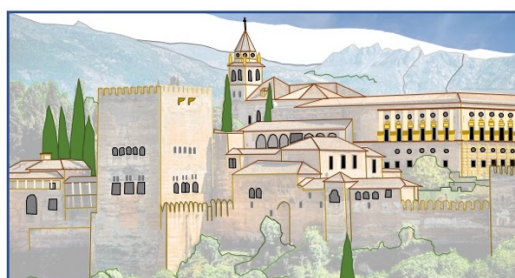
**PARQUE DE LAS
CIENCIAS**
Interactive Museum



FARADAY & GUTENBERG
Lecture Theatres
SAGAN & CURIE
Educational Room

Microscopy at the Frontiers of Science

**Joint Meeting of the “Sociedad de Microscopía de España” (SME) and the Portuguese
Microscopy Society (SPMicros)**



mfs2019

Parque de las Ciencias, Granada
11-13 September 2019.

Local Organising Committee

- **Juan de Dios Alché Ramírez.** Estación Experimental del Zaidín (EEZ)/Spanish Council for Scientific Research (CSIC). Granada. Spain
- **Antonio Jesús Castro López.** EEZ-CSIC. Granada. Spain
- **José Carlos Jiménez López.** EEZ-CSIC. Granada. Spain
- **Fco. Javier Huertas Puerta.** IACT/CSIC-UGR. Granada. Spain
- **Elena Lima Cabello.** EEZ-CSIC. Granada. Spain
- **David Porcel Muñoz.** Centro de Instrumentación Científica. UGR. Granada. Spain
- **Alicia Rodríguez Sánchez.** EEZ-CSIC. Granada. Spain
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Scientific Committee

- **Juan de Dios Alché Ramírez.** EEZ/CSIC. Granada. Spain
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- **Ignacio Arechaga.** IBBTEC Cantabria. Santander. Spain
- **Raúl Arenal.** ARAID INA. Zaragoza. Spain
- **José R. Castón.** CNB/CSIC. Madrid. Spain
- **Pedro Coelho.** U. Coimbra. Portugal
- **Henrique Guirão.** U. Coimbra. Portugal
- **Francisco Javier García García.** CNME/UCM. Madrid. Spain
- **Francisca Peiró.** LENS, MIND, IN2UB. UB. Barcelona. Spain
- **Ana Paula Piedade.** U. Coimbra. Portugal
- **Carmen San Martín.** CNB/CSIC. Madrid. Spain
- **Rúben Santos.** U. Porto. Portugal
- **Bruno Trindade.** U. Coimbra. Portugal

Welcome

This year, the “Sociedad de Microscopía de España (SME, <http://www.microscopia.org>) and the Portuguese Society for Microscopy (<https://www.spmicros.com>) will join again following the former successful meeting 2017 in Zaragoza (Spain) in order to celebrate a new event of the series “Microscopy at the Frontiers of Science” (MFS2019). This event will take place in Granada (Spain) from the 11th to 13th (Wednesday to Friday) of September 2019.

The Scientific Committee of the Congress has defined an appealing scientific program, full of opportunities for imaging scientists and professionals from Spain, Portugal and beyond, to meet and interact within this growing community. These opportunities include lectures by keynote, invited and selected speakers, flash communications, poster presentations, a broad commercial exhibition, and of course social events.

The meeting is fully open to contributions from all kinds of microscopical and related disciplines, in both the Life Sciences and the Material Sciences, non-restrictively including:

- **Light Microscopy** (4Pi Microscopy, Big data, Bioluminescence Imaging -BLI-, Brightfield & other Transmission Microscopy Contrasts, Data mining, Dyes design, Fluorescence Correlation Spectroscopy -FCS-, Fluorescence Lifetime Imaging Microscopy -FLIM-, Förster Resonance Energy Transfer -FRET-, High-Content Screening -HCS-, High Speed Confocal Laser Scanning Microscopy -CLSM-, Hyperspectral imaging, Image Analysis, Image Analysis/ Colocalization, Image analysis software, Image deconvolution, In vivo Imaging, Light Sheet Microscopy -SPIM, DSLM, DiSPIM-, Machine learning, Mesoscopic imaging, Multiplex imaging, Multiscale imaging, Nonlinear microscopy -TPEF, SHG, THG-, Photoexcitation and photoablation, Single molecules detection, Super resolution microscopy -STED, STORM, PALM, Structured Illumination-, Tissue imaging....).
- **Electron Microscopy** (high-resolution TEM, STEM, SEM and diffraction, Low energy electron microscopy -STEM, TEM, SEM- and FIB-techniques, Spectroscopy -EELS, EFTEM, EDX, CL-, Cryo-electron microscopy, High-voltage electron microscopy, Electron tomography, Phase-related techniques, Array tomography -AT-, focused ion beam SEM -FIBSEM-, serial block face SEM -SBEM-, 3-D-EM, in situ EM...).
- **Correlative and multimodal microscopy** (Correlated Light and Electron Microscopy -CLEM-)
- **Other microscopes and microscopy equipment** (Atomic Force Microscopy -AFM-, X-ray tomography, optical tweezers).
- **Advances in sample preparation** (Automated processing, clearing, imaging of live cells...).
- **Advances in Instrumentation and Techniques** (aberration correction, increase of contrast, light optimization, new detectors, imaging software developments, ...)

We would like to cordially invite you to participate in our meeting. The event will take place in Granada, the capital city of the province located in the Andalusian region (Southern Spain), just at the foot of the Sierra Nevada mountains range, and just an hour from the Mediterranean and the tropical coast by car. Granada's vast heritage includes the Alhambra Moorish citadel (UNESCO's World Heritage Site) and the Generalife palaces, which combine Nasrid works of art with rich architecture embracing numerous Renaissance and Baroque buildings. Granada is also a center of scientific excellence, and has been recently awarded the official distinction of "City of Science and Innovation" by the Spanish Ministry of Economy, Industry and Competitiveness, to recognize the activity of the numerous research institutes, technological infrastructures and institutions, including the prestigious University of Granada.

Confirmed speakers

- **David Bella** (Univ. Glasgow, U.K.)
- **José L. López Carrascosa** (CNB/CSIC, Madrid, Spain)
- **Joke Hadermann** (Univ. Antwerp, Belgium)
- **Paul Midgley** (Univ. Cambridge, U.K.)
- **Ernesto Arias-Palomo** (Madrid)
- **Alvaro Mayoral** (ShanghaiTech University)
- **Ana Sanchez** (U. Warwick, UK)

Conference venue.

The event will take place at the "**Parque de las Ciencias**", an interactive museum of over 70.000 m², located a few short minutes on foot from the historic city center of Granada. It has one of the most varied offers for cultural and scientific leisure in Europe as well as outstanding facilities to host scientific activities as the one proposed here.

This background, together with the amicable ambient of the city, the fabulous views, the famous bars with plenty of "tapas" and the friendship of the

microscopy community promises an excellent opportunity to develop a fruitful event for all attendants, which we would be delighted to share with you.

Web page

For regular updates and new information on MFS2019, please visit our website:
<https://www.mfs2019.com>

Contact

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Registration

On-line registration is open at <https://www.mfs2019.com/registration>

Preparation of Abstracts

Author guidelines for the preparation of abstracts, abstract templates and on-line submission is available at <https://www.mfs2019.com/call-for-abstracts>

Important Deadlines

| | | |
|-------------------------|----------------------|------------------------------|
| Abstract submission | 31st May 2019 | Extended till 23th June 2019 |
| Aceptance of abstracts | 20 June 2019 | Extended till 30th June 2019 |
| Early bird registration | up to 30th June 2019 | |
| Regular registration | from 1st. July 2019 | |
| Registration closing | 31st August 2019 | |

Pre-congress workshop

Organization of a pre-congress “hands on” workshop/course is scheduled for 10th September 2019 at the “Parque de las Ciencias” (educational rooms Sagan and Curie) for a maximum of 40 attendants (to be announced shortly).

Preliminary program (to be refined)

| | Tuesday 10th | Wednesday 11th | Thursday 12th | Friday 13th |
|-------|--|---|--|-----------------------------------|
| 8:30 | Registration | Registration | Plenary Lecture (Joke Hademann) | Plenary Lecture (Paul Midgley) |
| 8:45 | Welcome | Welcome | | |
| 9:00 | | | | |
| 9:15 | | | | |
| 9:30 | Presentation | Plenary Lecture (Pepe Carrascosa) | Session 3 (LS) | Session 6 (LS) |
| 9:45 | Introductory Talks | Session 1 (LS) | Session 3 (M) | Session 6 (M) |
| 10:00 | | Session 1 (M) | | |
| 10:15 | | | | |
| 10:30 | Coffee break | Posters and coffee | Posters and coffee | Posters and coffee |
| 10:45 | | | | |
| 11:00 | Workshop A (SAGAN) | Session 1 (LS) continued | Session 4 (LS) | Session 7 (LS) |
| 11:15 | Workshop B (CURIE) | Session 1 (M) continued | Session 4 (M) | Session 7 (M) |
| 11:30 | | | | |
| 11:45 | | | | |
| 12:00 | | | | |
| 12:15 | | | | |
| 12:30 | Workshop A (SAGAN) | Emm. Bayer (invited) | Ernesto Arias- Palomo (invited) | Additional invited?? |
| 12:45 | Workshop B (CURIE) | Alvaro Mayoral (invited) | Ana Sánchez (invited) | Additional invited?? |
| 13:00 | | | | Closing remarks |
| 13:15 | | | | |
| 13:30 | | | | |
| 13:45 | | | | |
| 14:00 | Buffet lunch | Buffet lunch | Buffet lunch | |
| 14:15 | | | | |
| 14:30 | | | | |
| 14:45 | | | | |
| 15:00 | Workshop C (SAGAN) | Session 2 (LS) | Session 5 (LS) | |
| 15:15 | Workshop D (CURIE) | Session 2 (M) | Session 5 (M) | |
| 15:30 | | | | |
| 15:45 | Workshop C (SAGAN) | | | |
| 16:00 | Workshop D (CURIE) | | | |
| 16:15 | | | | |
| 16:30 | Coffee break | Posters and coffee | Posters and coffee | |
| 16:45 | | | | |
| 17:00 | Workshop E (SAGAN) | Flash company presentation | Award ceremony | |
| 17:15 | Workshop F (CURIE) | Flash company presentation | | |
| 17:30 | Workshop E (SAGAN) | Flash company presentation | Best PhD Award Talk (LS) | |
| 17:45 | Workshop F (CURIE) | Flash company presentation | | |
| 18:00 | | Flash company presentation | Best PhD Award Talk (Tech. Adv.) | |
| 18:15 | Welcome Lecture (David Bhella) | Flash company presentation | Best PhD Award Talk (M) | |
| 18:30 | * open to WORKSHOP AND MFS2019 participants | Flash company presentation | | |
| 18:45 | | Flash company presentation | | |
| 19:00 | Welcome reception | Posters and refreshments "via lactea gardens" | SME Assembly | |
| 19:15 | * open to WORKSHOP AND MFS2019 participants | | | |
| 19:30 | | | | |
| 19:45 | | | | |
| 20:00 | | | | |
| 20:15 | | | Gala buffet "Carmen de los Mártires" | |
| 20:30 | | | | |

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| | Registration and Secretary Main Hall ' " |
| | "Faraday" Lecture Theatre |
| | "Faraday" Lecture Theatre |
| | "Faraday" Lecture Theatre |
| | "Faraday" Lecture Theatre |
| | "Gutenberg" Lecture Theatre |
| | "Cines Hall" and Gardens |

Special Issue Methods and Protocols (MDPI)

Authors from MFS2019 are invited to submit an extended version to a Special Issue published in the new open access journal Methods and Protocols.

https://www.mdpi.com/journal/mps/special_issues/

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