



## EMS NEWSLETTER 84

JUNE 2024



**Prof. Dr. José VALPUESTA**  
EMS President



**Prof. Dr. Virginie SERIN**  
EMS Secretary

Dear EMS members,

The **European Microscopy Congress, EMC2024**, is the 17th of its kind and will bring the world of scientific imaging together in one of Europe's most beautiful cities: Copenhagen, Denmark. The event will take place at **Bella Center, Copenhagen, 25 - 30 August 2024**. EMS members benefit of a reduced fee. Hurry up! EMC2024 registration is still opened! <https://emc2024.eu/>

We hope to see most of you at this important meeting.

On the occasion of this quadrennial European Microscopy Meeting, the EMS will deliver the prestigious **European Microscopy Award (EM Award)** to two scientists based on the quality and originality of their scientific achievements in any field of microscopy. All modes of microscopy are included and the prizes are divided into: one for Life Sciences and one for Materials Sciences, both fields including the respective instrumental advances.

The **Physical/Materials Sciences and Optics award** is given to **Dr. Quentin Ramasse (France)**, from the University of Leeds, UK, for his outstanding contributions to the development of novel technologies in TEM, especially in the field of STEM-EELS.

The **Life Sciences award** is offered to **Dr. Tomas Čížmár (Germany)**, from the Friedrich-Schiller-University Jena, Germany, for his pioneering developments in the realm of deep-tissue endo-microscopy in vivo that have had a strong impact in medical imaging and neuroscience research.

The winners will each give a lecture at the EM award ceremony during EMC2024. We hope you will be able to attend this special award session.

More information on EM awards as well as previous winners can be found at <http://www.euremicsoc.org/en/funding/european-microscopy-award/>

Last year our society commemorated its **25 years**. To celebrate it, a booklet with articles written by leading scientists of our community has been created thanks to the efficient input of Josef Zweck, and will be provided at EMC2024.

The **EMS Outstanding Paper Award (OPA)** goes to papers containing original work in the field of microscopy which will be judged on scientific merit, technical and general quality, expected impact, originality, and relevance to microscopy. Each year it is intended that one paper will be chosen in each of the categories (i) Instrumentation and Technique Development, (ii) Materials Sciences and (iii) Life Sciences. The prize consists of 1000 (one thousand) Euros plus a plaque to the first author (per awarded paper) in each category and printed awards to all authors. The EMS has received several high-quality papers. For 2023 there were in total 19 eligible papers nominated, divided in the three categories as shown in the list. Three nominated papers had to be redrawn, as these were nominated by the authors and thereby not eligible).

**The OPA 2023 for Instrumentation and Technique Development has been awarded to:**

**Júlia Ferrer Ortas**, Pierre Mahou, Sophie Escot, Chiara Stringari, Nicolas N. B. David, Laure Bally Cuiif, Nicolas Dray, Michel Négrerie, Willy Supatto, Emmanuel, Label-free imaging of red blood cells and oxygenation with color third-order sum-frequency generation microscopy, *Light: Science & Applications*, **12**, 29, 2023. <https://www.nature.com/articles/s41377-022-01064-4>



**The OPA 2023 for Life Science has been awarded to:**

**Shotaro Otsuka**, Jeremy O. B. Tempkin, Wanlu Zhang, Antonio Z. Politi, Arina Rybina, M. Julius Hossain, Moritz Kueblbeck, Andrea Callegari, Birgit Koch, Natalia Rosalia Morero, Andrej Sali & Jan Ellenberg, A quantitative map of nuclear pore assembly reveals two distinct mechanisms, *Nature* **613**, 575-581, 2023. <https://www.nature.com/articles/s41586-022-05528-w>

**The OPA 2023 for Materials Science has been awarded to:**

**Matteo Monai**, **Kellie Jenkinson**, **Angela E. M. Melcherts**, Jaap N. Louwen, Ece A. Irmak, Sandra Van Aert, Thomas Altantzis, Charlotte Vogt, Ward van der Stam, Tomáš Duchoň, Břetislav Šmíd, Esther Groeneveld, Peter Berben, Sara Bals, and Bert M. Weckhuysen, Restructuring of titanium oxide overlayers over nickel nanoparticles during catalysis, *Science* **380**, 644-651, 2023. <https://www.science.org/doi/epdf/10.1126/science.adf6984>

The winners will receive their awards at the EMC2024, to be held next August 25-30th, at the venue described above (<https://emc2024.eu>). We hope to see you there!

The call for **EMS Scholarship** to attend the EMC2024 has also been launched at the beginning of this year and already examined by Agnes Kittel and Saso Sturm and presented to the board for approval. The granted candidates will be informed very shortly.

Another significant EMS activity has to do with the **Sponsored events (SE)**. Financial support from the EMS ensures that these smaller events, often organized in the form of a school or course, can invite top scientists to lecture our coming generations of microscopists. The EMS SE for the second half of the year are:

**School on Nano-optics with Free Electrons (EBEAM2024)**, which will be held on September 1-13 2024 at the Centre Langevin (Aussais, France).

<https://ebeam2024.sciencesconf.org/>

**Conference on Electron Microscopy of Nanostructures (ELMINA2024)**, which will be held on September 9-13 2024 at the Serbian Academy of Sciences and Arts (Belgrade, Serbia). <https://www.elmina.rs>

**Low Energy Electron Applications in Patterning (LE2AP) + Low Energy Electron Lithography, Imaging and Soft Matter (LEELIS)**, which will be held on September 9-11 2024 at imec (Leuven, Belgium).

<https://www.le2ap-leelis.org/home/home>

You can find more information on these Events using the added direct link and/or by visiting our website: <https://www.euremicsoc.org/en/meeting-calendar/ems-sponsored-events/>

You will soon receive the yearbook 2023. This issue will include reports from past EMS sponsored events, EMS Extensions and their EMS lecturers, EMS scholarships, and many other information from EMS members.

Finally, we invite you to visit the EMS webpage: <http://www.euremicsoc.org/en/>, which is daily updated to efficiently provide you information from our community.

Any suggestions and ideas for future newsletters are welcome at [sec@euremicsoc.org](mailto:sec@euremicsoc.org).

**We look forward to seeing many of you in Copenhagen at EMC2024,**

**Prof. Dr. Virginie SERIN**  
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