



MMM2025 CONFERENCE

www.magnetism.org

October 27-31, 2025
Palm Beach, FL



The MMM 2025 Conference will be held October 27-31, 2025 and will offer both in-person and prerecorded on-demand content. Members of the international scientific and engineering communities interested in recent developments in fundamental and applied magnetism are cordially invited to attend and actively participate in its technical sessions. The Conference provides an opportunity to share your research and interact with a large and broad collection of researchers working in magnetism, and to learn about the most recent developments in the field. Up-to-date information on the Conference can be found at www.magnetism.org. A compilation of this information is provided in this PDF. We look forward to seeing you in Palm Beach, Florida, and to an exciting, enjoyable, and productive Conference.

IMPORTANT DATES

Abstract Submission Site Opens.....	June 2, 2025
Abstract Submission Deadline for Early Decision for Visa Applications.....	June 9, 2025
Early Decision Notifications Sent for Visa Applications	June 16, 2025
Abstract Submission Deadline	June 20, 2025
Best Student Presentation Award Application Deadline	June 20, 2025
Child Care and Student Travel Support Applications Deadline	July 24, 2025
Conference Registration and Magnetism as Art Submission Sites Open.....	August 1, 2025
Author Notification Letters Sent.....	August 8, 2025
Manuscript Submission Site Opens	September 15, 2025
Magnetism as Art Submission Deadline.....	September 29, 2025
Presenter and Session Chair Registration Deadline.....	October 3, 2025
Advance Registration Deadline	October 3, 2025
Hotel Reservations Deadline.....	October 3, 2025
Manuscript Submission Deadline	October 6, 2025
Presentation Upload Deadline.....	October 31, 2025
On-Demand Conference Resource Center Opens.....	November 19, 2025

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MMM 2025 TECHNICAL SUBJECT CATEGORIES: This Conference will include basic and applied science and technology related to the field of magnetism and magnetic materials. The technical subject categories are as follows:

I. Fundamental Properties and Cooperative Phenomena

- a. Electronic Structure and Critical Phenomena
- b. Highly Frustrated Magnetism, Spin Glasses and Heavy Fermion Systems
- c. Quantum Materials and Cooperative States: Superconductivity, Spin Liquids, Chern Insulators
- d. Low-Dimensional Systems, Molecular and Organic Magnets
- e. 2D and Topological Magnets

II. Magnetoelectronic Materials and Phenomena

- a. Multiferroic Materials, Heterostructures and Magnetoelectric Phenomena
- b. Complex Oxides (Bulk, Films and Heterostructures)
- c. Half-Metallic Materials and Magnetic Semiconductors
- d. New and Developing Magnetoelectronic Materials
- e. Magneto-Ionics and Voltage Controlled Magnetism

III. Spintronics – Fundamentals and Devices

- a. Magnetoresistance in Heterostructures (GMR, TMR, TAMR)
- b. Spin Injection, Pumping and Transfer Torques
- c. Superconducting Spintronics
- d. Antiferromagnetic and Ferrimagnetic Spintronics
- e. Altermagnets
- f. Ultrafast and THz Spintronics
- g. Skyrmions
- h. Orbitronics
- i. Spin-Charge Conversion
- j. Topological Insulators, Dirac Materials, 2D and Layered van der Waals Materials

IV. Magnetization Dynamics and Micromagnetics

- a. Magnetization Dynamics, Damping, and Ultrafast Switching
- b. Spin Waves and Magnonics
- c. Domain Wall and Topological Texture Dynamics and Devices
- d. Micromagnetic, Atomistic, and Hysteresis Modeling
- e. Modeling of Magnetic Materials
- f. AI/Machine Learning Computational Methods for Materials Research

V. Magnetic Recording, Storage and Computing

- a. Energy-Assisted Recording, Media, Write and Read Heads
- b. Recording Physics, Modeling, Theory, and Testing
- c. Unconventional Computing (Neuromorphic, Ising, Stochastic, Reservoir, etc.)
- d. All-Optical Recording and Other New Recording
- e. STT-MRAM, SOT-MRAM, Magnetic Logic, and Related Devices

VI. Soft Magnetic Materials

- a. Ferrites and Garnets
- b. Crystalline Alloys
- c. Amorphous and Nanocrystalline Materials

VII. Hard Magnetic Materials

- a. Rare-Earth Compounds
- b. Rare-Earth Free Hard Magnetic Materials
- c. Nanostructured, Composite and Other Hard Magnetic Materials

VIII. Structured Materials

- a. Thin Films and Surface Effects
- b. Multi-Layered Films and Superlattices
- c. Nanoparticle and Nanowire Arrays and Self-Assembly
- d. Nanocomposite Magnetic Materials
- e. 3D and Other Magnetic Structures
- f. Exchange Bias

IX. Multi-Functional Magnetic Materials and Applications

- a. Magneto-Optic Materials and Devices
- b. Magneto-Elastic Materials and Devices
- c. Magneto-Caloric Materials and Devices
- d. New Coupled Magnetic Phenomena

X. Sensors, High Frequency Devices, and Power Devices

- a. Magnetic Sensors (Non-Recording), and Energy Harvesting
- b. High Frequency, Microwave, and Millimeter Wave Devices
- c. Transformers and Inductors
- d. Magnetics for Power Electronics and Control
- e. Shielding, Levitation, and Propulsion

XI. Interdisciplinary and Emerging Topics

- a. Bio-Magnetism and Biomedical Applications
- b. New Applications and Other Emerging Topics
- c. Education, Outreach, and Public Engagement in Magnetism

XII. Magnetic Characterization

- a. Magnetic Microscopy and Imaging
- b. Instrumentation and Measurements Techniques



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PROGRAM: MMM 2025 will offer both in-person and prerecorded on-demand content. The program will consist of invited and contributed presentations falling broadly within the scope of the categories listed on the previous page. Special sessions held onsite, including the Symposia, Tutorial, and Evening Sessions, will be recorded and available for viewing on-demand after the Conference.

INVITED PAPERS: The submission site for nominations is now closed. Individual invited presentations and symposia, consisting of up to five invited presentations, are an important aspect of the program. Invited speakers will be selected from the nominations received and will be contacted by the Program Co-Chairs in early June. **All invited speakers (single speakers and symposia) will be expected to present onsite in Palm Beach.** The Program Committee may also select certain contributed abstracts on important latebreaking results for upgrade to invited status. **Please note that if you submitted a nomination, that does not guarantee an invited talk. Nominating someone does not guarantee that they will be given an invited talk. If their nomination for an invited talk is accepted, they must submit an abstract through the invited speaker submission site. If their nomination is not accepted, they must resubmit their abstract for consideration as a contributed talk to be considered for the technical program.**

ABSTRACT SUBMISSION REQUIREMENTS: Complete details on formatting your abstract and the online submission process may be found at www.magnetism.org under “Authors, Abstract Submissions.” All abstracts must be submitted electronically, and the presenting author must be a registered Conference attendee. The Conference does not provide financial support or registration fee waivers for any presenters.

Important Deadlines:

- June 2, 2025: Abstract submission site opens.
- **June 9, 2025: Abstract submission deadline for early decisions for visa applications.**
- June 16, 2025: Early decision notifications sent for visa applications.
- **June 20, 2025: Abstract submission deadline.**
- August 8, 2025: Authors notified regarding the status of their submission.

OPTION FOR EARLY DECISIONS FOR VISA APPLICATIONS!

We encourage our participants from countries that have experienced long wait times for approval of visas to the US to apply for their visas as early as possible! **If you need to apply for such a visa and would like to receive an early decision notification, you must submit an abstract by June 9, 2025, and select the “Early Notification for Visa” box during the submission process.** Early decision notifications will be sent by June 16. Please note that early decision letters will not contain any presentation date, time, or session details. Presentation details will be included in the abstract notification emails sent by August 8. **Early decisions are only available for applicants in countries experiencing visa delays.**



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CONTRIBUTED PAPERS: Contributed papers accepted for the Conference will be presented either as oral or poster presentations. Both oral and poster presentations are vital to the success of the Conference and are expected to be of similarly high technical quality.

Oral Contributed Presentations:

- All oral contributed presenters must present onsite.
- The contributed presentation format is a 10-minute talk by the registered author, followed by a 2-minute discussion period.
- All oral presenters will have the option to submit presentation slides for inclusion in the Conference Resource Center. Instructions for uploading presentation slides will be posted in September.

Poster Presentations:

- Poster presenters will have the option to present onsite or, if they cannot attend in person, to upload an electronic poster to the Conference Resource Center.
- Posters should consist of well-prepared visual materials describing the work.
- Posters should be printed to fit the onsite presentation board dimensions of 46 inches tall by 94 inches wide (landscape orientation).
- Posting a copy of a paper is NOT appropriate and will be treated as a NO SHOW.
- Virtual poster presenters are required to submit an electronic poster for inclusion in the Conference Resource Center no later than October 31. Onsite poster presenters will also have the option to submit an electronic poster, but it will not be required. Presentation upload instructions will be posted in September.

No Show Policy: If any of the following applies, then the paper will be recorded as a NO SHOW and will not be published.

- Abstracts that are listed in the program but are NOT presented in person.
- Abstracts that are presented by an unregistered and/or unknowledgeable author or representative.
- Abstracts that did not have a registered author or representative available and responsive during their poster session to address questions.

Authors should indicate their preference for oral or poster presentations when submitting their abstracts; however, the Program Committee will make the final decision on the assignment of papers to specific sessions and the presentation format (oral or poster). Authors will be notified by email of their presentation format and specific session.

ABSTRACT CRITERIA: To maximize your chances of acceptance, keep in mind the following abstract criteria:

- Choose your category and subcategory with care. This helps ensure the most informed review of your abstract.
- The abstract must report a substantial advance in the science of magnetism or magnetic materials.
- The advance in knowledge must be both original and significant.
- The work reported must be complete, with specific reference to new results. Lack of sufficient context and details may result in abstract rejection.
- The Program Committee wishes to permit as many groups as possible to present their work. Groups or individuals considering the submission of several related abstracts should, wherever possible, combine them into a single submission.
- The abstract must be written in clear English. If necessary, please have a native English speaker edit your abstract before submission.



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PUBLICATIONS: Conference papers will be published online in early 2026 in *AIP Advances* as a special topic. *AIP Advances* is an open access journal published by AIP Publishing, and articles are freely available to read, download and share. All previously published MMM articles can be viewed at <http://mmm.aip.org>, and published Conference papers are identified by presentation IDs. **All MMM Conference papers published in *AIP Advances* will be open access at no additional cost to the authors.** Detailed instructions on the preparation of manuscripts is available at www.magnetism.org under “Authors, Publications.”

- The manuscript submission site opens on September 15, 2025. All manuscripts must be received by October 6, 2025. Post-deadline manuscripts will not be accepted and not forwarded for review.
- To be published, papers must be presented at the Conference by an author (or representative) registered at the Conference AND knowledgeable about the work to be published in *AIP Advances*.
- Reviewing and revisions will be handled through the online system. Review standards are the same as those used for regular articles submitted to *AIP Advances*. Due to time constraints, a second review may not be possible for resubmitted papers that were originally rejected.
- **Paper length recommendations are 6,000 words for invited papers and 3,500 words for contributed papers.** The length of the paper should be dictated by good use of journal space.
- All manuscripts must be submitted through the AIP Publishing online submission system, PeerX-Press.
- All papers will have one peer review, and the final decision on the publication of the manuscripts will be made by the AIP editors.

ADVANCES IN MAGNETISM AWARD: *AIP Advances* will sponsor the fourth annual **Advances in Magnetism Award**. The Award will be given to the best paper submitted as part of the MMM 2025 Conference and presented at MMM 2026 in Honolulu, Hawaii. **To be eligible to win this exciting award, you must submit your MMM 2025 Conference paper to *AIP Advances*. The winner will receive a cash prize of \$3,500 plus a travel allowance!**

SUPPORT OPPORTUNITIES: Organizations interested in supporting Conference events may review the opportunities [here](#) and contact info@magnetism.org.

HOTEL: A block of rooms has been reserved at discounted rates at two hotels located within easy walking distance of the Convention Center, and just three miles from Palm Beach International Airport (PBI). **Book early to secure the discounted group rate! The deadline for group rates is October 3.** [Click here to book your hotel room.](#)

REGISTRATION: Conference registration fees and the online registration link will be available on the Conference website in August 2025.

REQUIREMENTS FOR ENTRY INTO THE USA: Obtaining your visa to enter the U.S. may take up to three to six months. Applicants should consult the U.S. Department of State’s website to determine first if you need a U.S. visa or visa renewal, and then to schedule an appointment for an interview and to determine processing wait times. **If you need to apply for such a visa and would like to receive an early decision notification, you must submit an abstract by June 9, 2025, and select the “Early Notification for Visa” box during the submission process.** Early decision notifications will be sent by June 16 for presenters to obtain their visa. To request a letter of invitation from the Conference, complete the online form at www.magnetism.org under “Travel, Visa Info.” **You must be either a registered Conference attendee or have submitted an abstract in order to receive an invitation letter.**



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BEST STUDENT PRESENTATION AWARD: This award recognizes and encourages excellence in graduate studies in the field of magnetism. The winner receives \$1,000 and remaining finalists each receive \$250. For additional details on and the selection process go to www.magnetism.org under “Awards.”

Congratulations to the Best Student Presentation Award winner and the finalists at the 2025 Joint Conference:

Winner:

Allison Kaczmarek, *Massachusetts Institute of Technology*

Finalists:

Christin Schmitt, *Johannes Gutenberg University Mainz*

Dinesh Wagle, *University of Delaware*

Buo Lin, *Northeastern University*

Tobias Wagner, *Johannes Gutenberg University Mainz*

Eligibility:

- The nominee must be a full-time graduate student expecting to graduate within one year of the Conference. Postdoctoral fellows, undergraduates or non-students are not eligible.
- The student’s area of research may either be theoretical or experimental in any of the general technical and scientific areas normally presented as part of the Conference.
- The student’s regularly submitted abstract must be accepted as an oral presentation through the normal abstract review process by the Program Committee.
- The student must attend the Conference and present in person.

Student Award Application Procedure:

1. Students must submit an abstract to the Conference according to the standard submission guidelines and deadlines as outlined on the Conference website. DO NOT identify the abstract as part of the student award competition in the text of the abstract. **The abstract submission deadline is June 20, 2025.**
2. Award applications will be accepted via ScholarOne, and must include the following supplemental information:
 - Expected graduation date, advisor name, advisor email;
 - Extended two-page abstract of the presentation which includes a short (300 words or less) explanation of your contribution to the work and significance of the research results; and
 - Letter of support from the student’s advisor.

STUDENT TRAVEL SUPPORT: The Conference will offer travel support to a limited number of qualified students and recent graduates who wish to attend the Conference. This support is intended to offset travel costs.

The deadline for submitting applications and letters of endorsement is July 24, 2025. For additional details on eligibility requirements and the application process, go to www.magnetism.org under “Travel, Travel Support.”

CHILD CARE SUPPORT: There is a limited amount of child care support funding for Conference attendees who bring small children to the meeting or who incur extra expenses in leaving their children at home (i.e., extra daycare or babysitting services). For additional details on allowable expenses and the application form, go to www.magnetism.org under “Travel, Child Care Support.” **The deadline for submitting applications is July 24, 2025.**

BEST POSTER AWARDS: All in-person posters will be eligible for nomination for this award provided they meet the requirements detailed on the Conference website. Authors must attend in person to present their poster. Selections, made by Poster Session Chairs, will be based on the level of the research, quality of the poster, and clarity of the presentation. Award winners will be announced during the Conference and prominently displayed onsite.

MAGNETISM AS ART SHOWCASE: MMM 2025 will host a Magnetism as Art Showcase to highlight the beauty of magnetism and magnetic materials. All submissions will be displayed on the Conference website. Four finalists will be selected by a panel of judges and those submissions will be displayed onsite. The winner will be selected by popular vote.

Detailed information on the Showcase rules and submission requirements are available at www.magnetism.org under “Program, Magnetism as Art Showcase.” **The submission deadline is September 29, 2025.**

ADDITIONAL INFORMATION: To receive additional information about the MMM 2025 Conference, to be added to the Conference mailing list, or to update your address, contact info@magnetism.org. The latest information on the MMM 2025 Conference can be found at www.magnetism.org.

FUTURE CONFERENCES

2026 INTERMAG CONFERENCE

April 13 – 17, 2026, Manchester, United Kingdom

2026 CONFERENCE ON MAGNETISM AND MAGNETIC MATERIALS

November 2 – 6, 2026, Honolulu, Hawaii

2027 INTERMAG CONFERENCE

May 10 – 14, 2027, Jeju Island, South Korea

2027 INTERNATIONAL CONFERENCE ON MAGNETISM (ICM2027)

June 14 – 18, 2027, San Juan, Puerto Rico



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