

Onsite Schedule-at-a-Glance (as of 12/17/24)

| Morning coffee service available on Tuesday through Friday from 8:00 am to 12:00 pm.<br>Afternoon coffee service available on Tuesday through Thursday from 1:30-4:30 pm. |            |          |   |   |                  |                |                           |                           |
|---|------------|----------|---|---|------------------|----------------|---------------------------|---------------------------|
| Date  | Start Time | End Time | ID  | Event/Session   | Type             | Location       |                           |                           |
| Sunday 1/12/2025  | 9:00 AM    | 6:00 PM  |   | ISIM 2025   | Special Session  | Celestine B&C  |                           |                           |
| Monday 1/13/2025  | 9:00 AM    | 2:00 PM  |   | ISIM 2025   | Special Session  | Celestine B&C  |                           |                           |
|   | 9:00 AM    | 1:00 PM  |   | Industry Day  | Special Session  | Celestin E     |                           |                           |
|   | 2:30 PM    | 5:00 PM  | TU  | Tutorial: Symmetry in Magnetism   | Special Session  | Celestin D     |                           |                           |
|   | 5:00 PM    | 6:30 PM  |   | Opening Bierstube   | Networking Event | Celestin Foyer |                           |                           |
|   | 6:30 PM    | 8:00 PM  |   | Young Professionals Lightning Talks<br>Special Presentation by Professor Terunobu Miyazaki, Tohoku University   | Special Session  | Celestin D     |                           |                           |
| Tuesday 1/14/2025   | 8:30 AM    | 12:00 PM | AA  | Spin Caloritronic Metrology   | Symposium        | Celestin D     |                           |                           |
|   | 8:30 AM    | 12:00 PM | AB  | Ultrafast Spin-phonon Dynamics  | Symposium        | Celestin E     |                           |                           |
|   | 8:30 AM    | 12:00 PM | AC  | Spin-orbitronics I: Angular Momentum Compensation, Out-of-plan Torques and Energy Efficient Switching           | Oral Session     | Celestin A     |                           |                           |
|   | 8:30 AM    | 12:00 PM | AD  | Magnetization Dynamics and Micromagnetics I   | Oral Session     | Celestin B     |                           |                           |
|   | 8:30 AM    | 12:00 PM | AE  | Altermagnets and Altermagnetic Spintronics  | Oral Session     | Celestin C     |                           |                           |
|   | 8:30 AM    | 12:00 PM | AF  | Structured Materials I  | Oral Session     | Imperial SAB   |                           |                           |
|   | 8:30 AM    | 12:00 PM | AG  | Electrical Machines and Power Electronics I   | Oral Session     | Imperial SCD   |                           |                           |
|   | 9:00 AM    | 12:00 PM | AP  | Spintronics I   | Poster Sessions  | Exhibit Hall   |                           |                           |
|   | 9:00 AM    | 12:00 PM | AQ  | Applications of Magnetic Materials and Devices  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | AR  | Bio-magnetism and Biomagnetic Applications  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | AS  | Electronic Structure, Magnetism and Fundamental Physical Properties I   |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | AT  | Fast and Ultrafast Magnetisation Dynamics   |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | AU  | Machines Optimization, Magnetic Loss, and Thermal Modeling I  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | AV  | Electrical Machines and Power Electronics II  |                  |                |                           |                           |
|   | 12:15 PM   | 1:45 PM  |   | Workshop: Overview of Permanent Magnets, Soft Magnets, and Biomagnetism Areas of Magnetism for the Non-Expert   |                  |                | Special Session           | Exhibit Hall Session Room |
|   | 2:00 PM    | 5:30 PM  | BA  | Fundamentals and Advances in 2D Spintronics   |                  |                | Symposium                 | Celestin D                |
|   | 2:00 PM    | 5:30 PM  | BB  | Magnetics for Future Transportation – from Memory to Motors   |                  |                | Symposium                 | Celestin E                |
|   | 2:00 PM    | 5:30 PM  | BC  | Spin-orbitronics II: Chiral Dependence, Quantum Spin Transfer and Unconventional Torques                        | Oral Session     | Celestin A     |                           |                           |
|   | 2:00 PM    | 5:30 PM  | BD  | Magnetic Recording & Sensors and Applications I   | Oral Session     | Celestin B     |                           |                           |
|   | 2:00 PM    | 5:30 PM  | BE  | Antiferromagnets and Ferrimagnets   | Oral Session     | Celestin C     |                           |                           |
|   | 2:00 PM    | 5:30 PM  | BF  | Hard Magnets I  | Oral Session     | Imperial SAB   |                           |                           |
|   | 2:00 PM    | 5:30 PM  | BG  | Magnetoionic and Magnetolectric Materials   | Oral Session     | Imperial SCD   |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BP  | Spintronics II  | Poster Sessions  | Exhibit Hall   |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BQ  | Sensors and Applications II   |                  |                |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BR  | Biomagnetics and Emerging Topics Related to Magnetism   |                  |                |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BS  | Electronic Structure, Magnetism and Fundamental Physical Properties II  |                  |                |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BT  | 2D Spintronics and Topological Materials I & Domain Walls   |                  |                |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BU  | Energy Harvesting, Vibration Analysis and Advanced Materials Manufacturing                                      |                  |                |                           |                           |
|   | 2:30 PM    | 5:30 PM  | BV  | Electrical Machines and Power Electronics III   |                  |                |                           |                           |
|   | 5:30 PM    | 6:45 PM  |   | Bierstube   |                  |                | Networking Event          | Exhibit Hall              |
| 5:30 PM   | 6:45 PM    |          | Students in Magnetism Networking Event                  | Networking Event  |                  |                | Exhibit Hall Session Room |                           |
| 6:45 PM   | 8:00 PM    |          | Evening Session 1: Science and History of Rock and Roll | Special Session   |                  |                | Celestin D                |                           |
| Wednesday 1/15/2025   | 8:30 AM    | 12:00 PM | CA  | Topological Thermoelectrics: Utilizing Topology and Spin for Next-Generation Energy Conversion                  | Symposium        | Celestin D     |                           |                           |
|   | 8:30 AM    | 12:00 PM | CB  | When Magnons Meet Quantum Spins   | Symposium        | Celestin E     |                           |                           |
|   | 8:30 AM    | 12:00 PM | CC  | 2D Spintronics and Topological Materials II   | Oral Session     | Celestin A     |                           |                           |
|   | 8:30 AM    | 12:00 PM | CD  | Magnonics I: Magnon Manipulation and Application  | Oral Session     | Celestin B     |                           |                           |
|   | 8:30 AM    | 12:00 PM | CE  | Magneto-resistive Sensors   | Oral Session     | Celestin C     |                           |                           |
|   | 8:30 AM    | 12:00 PM | CF  | Hard Magnets II   | Oral Session     | Imperial SAB   |                           |                           |
|   | 8:30 AM    | 12:00 PM | CG  | Magnetolectric Materials and Phenomena I  | Oral Session     | Imperial SCD   |                           |                           |
|   | 9:00 AM    | 12:00 PM | CP  | Soft Magnetic Materials I   | Poster Sessions  | Exhibit Hall   |                           |                           |
|   | 9:00 AM    | 12:00 PM | CQ  | Magnonics II  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | CR  | Biomedical Therapies and Other Biomedical Applications  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | CS  | Materials with Coupled Magnetic Phenomena I   |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | CT  | Domain Walls and Skyrmions I  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | CU  | Electrical Machines and High Speed Electrical Machines  |                  |                |                           |                           |
|   | 9:00 AM    | 12:00 PM | CV  | Electrical Machines and Power Electronics IV  |                  |                |                           |                           |
|   | 12:15 PM   | 1:45 PM  |   | Workshop: Overview of Spintronics, Magnetodynamics, and Coupled Magnetics Areas of Magnetism for the Non-Expert |                  |                | Special Session           | Exhibit Hall Session Room |
|   | 12:15 PM   | 1:45 PM  |   | IEEE Magnetics Society Annual Meeting   |                  |                | Networking Event          | Celestin C                |

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|---|------------|----------|---|--|-----------------------|-------------------------------|
| Date  | Start Time | End Time | ID  | Event/Session  | Type                  | Location                      |
| Wednesday<br>1/15/2025  | 2:00 PM    | 5:30 PM  | DA  | Magnetic Brain Stimulation and Imaging   | Symposium             | Celestin D                    |
|   | 2:00 PM    | 5:30 PM  | DB  | Advanced Magnetic Materials & Manufacturing for Future Electric Motors and Power Electronics                         | Symposium             | Celestin E                    |
|   | 2:00 PM    | 5:30 PM  | DC  | 2D Spintronics and Topological Materials III   | Oral Session          | Celestin A                    |
|   | 2:00 PM    | 5:30 PM  | DD  | Domain Walls and Skyrmions II  | Oral Session          | Celestin B                    |
|   | 2:00 PM    | 5:30 PM  | DE  | Spintronic Devices I: MRAM, Sensor and Energy Efficient Computing  | Oral Session          | Celestin C                    |
|   | 2:00 PM    | 5:30 PM  | DF  | Magnetocaloric Materials and Refrigeration   | Oral Session          | Imperial SAB                  |
|   | 2:00 PM    | 5:30 PM  | DG  | Thin Films, Multilayers, and Exchange Bias Systems I   | Oral Session          | Imperial SCD                  |
|   | 2:30 PM    | 5:30 PM  | DP  | Soft Magnetic Materials II   | Poster Sessions       | Exhibit Hall                  |
|   | 2:30 PM    | 5:30 PM  | DQ  | Magnonics III  |                       |                               |
|   | 2:30 PM    | 5:30 PM  | DR  | Magnetization Dynamics & Materials with Coupled Magnetic Phenomena II  |                       |                               |
|   | 2:30 PM    | 5:30 PM  | DS  | Magnetoelectric Materials and Phenomena II   |                       |                               |
|   | 2:30 PM    | 5:30 PM  | DT  | Magnetoresistance & Domain Walls   |                       |                               |
|   | 2:30 PM    | 5:30 PM  | DU  | Electronic Structure, Magnetism and Fundamental Physical Phenomena   |                       |                               |
|   | 2:30 PM    | 5:30 PM  | DV  | Analysis and Design for Electrical Machines  |                       |                               |
| 5:30 PM   | 6:45 PM    |          | Bierstube   | Networking Event   | Exhibit Hall          |                               |
| 5:30 PM   | 6:45 PM    |          | Women in Magnetism Networking Event   | Networking Event   | 8 Block Kitchen & Bar |                               |
| 6:45 PM   | 8:00 PM    |          | Mentoring Workshop  | Special Session  | Celestin C            |                               |
| 6:45 PM   | 8:30 PM    | XA       | 21st-Century Permanent Magnets: How to Take it to the Next Level? A Panel/Audience Dialog | Symposium  | Celestin D            |                               |
| Thursday<br>1/16/2025   | 8:30 AM    | 12:00 PM | EA  | Novel Magnetic Tunnel Junction Mechanisms for Multifunctional Memories   | Symposium             | Celestin D                    |
|   | 8:30 AM    | 12:00 PM | EB  | Spin-orbit Torques and Spin Dynamics in 2D Systems   | Symposium             | Celestin E                    |
|   | 8:30 AM    | 12:00 PM | EC  | Magnetoresistance, Spintronics, and Damping  | Oral Session          | Celestin A                    |
|   | 8:30 AM    | 12:00 PM | ED  | Skyrmions  | Oral Session          | Celestin B                    |
|   | 8:30 AM    | 12:00 PM | EE  | Spintronic Devices II: Antiferromagnetism, Voltage-controlled Effects, Domain Wall Logic and Probabilistic Switching | Oral Session          | Celestin C                    |
|   | 8:30 AM    | 12:00 PM | EF  | Soft and Hard Magnets  | Oral Session          | Imperial SAB                  |
|   | 8:30 AM    | 12:00 PM | EG  | Magnetic Crystalline Alloys  | Oral Session          | Imperial SCD                  |
|   | 9:00 AM    | 12:00 PM | EP  | Hard Magnets III   | Poster Sessions       | Exhibit Hall                  |
|   | 9:00 AM    | 12:00 PM | EQ  | Magnonic and RF Sensors  |                       |                               |
|   | 9:00 AM    | 12:00 PM | ER  | Spintronic Devices III: CPP-GMR, SOT-MRAM and Spin-torque Oscillators  |                       |                               |
|   | 9:00 AM    | 12:00 PM | ES  | Magnetoelectric Devices and Applications   |                       |                               |
|   | 9:00 AM    | 12:00 PM | ET  | Thin Films, Multilayers, and Exchange Bias Systems II  |                       |                               |
|   | 9:00 AM    | 12:00 PM | EU  | Structured Materials II  |                       |                               |
|   | 9:00 AM    | 12:00 PM | EV  | Machines Optimization, Magnetic Loss, and Thermal Modeling II  |                       |                               |
|   | 12:15 PM   | 1:15 PM  |   | Meet the Speakers  | Special Session       | Exhibit Hall Session Room     |
|   | 12:15 PM   | 1:15 PM  |   | Magnetic Sensor Challenge Final Presentations  | Special Session       | Celestin C                    |
|   | 12:15 PM   | 1:15 PM  |   | Outreach Challenge Final Presentations   | Special Session       | Celestin B                    |
|   | 1:00 PM    | 4:00 PM  | FP  | Hard Magnets IV  | Poster Sessions       | Exhibit Hall                  |
|   | 1:00 PM    | 4:00 PM  | FQ  | Magnetic Devices for Sensing and Recording & Thin Films, Multilayers, and Exchange Bias Systems III                  |                       |                               |
|   | 1:00 PM    | 4:00 PM  | FR  | Spintronic Devices IV: STT/SOT MRAMs and Switching Dynamics  |                       |                               |
|   | 1:00 PM    | 4:00 PM  | FS  | Spintronic Neural Computing  |                       |                               |
|   | 1:00 PM    | 4:00 PM  | FT  | Thin Films, Multilayers, and Exchange Bias Systems IV  |                       |                               |
|   | 1:00 PM    | 4:00 PM  | FU  | Microscopy, Imaging, and Magnetic Characterization I   |                       |                               |
|   | 1:00 PM    | 4:00 PM  | FV  | Magnetic Aspects Related to Electromechanical Conversion, Transformers and Inductors                                 |                       |                               |
|   | 1:30 PM    | 3:30 PM  | FA  | Imaging Nanoscale Magnetization Dynamics and Spin Fluctuations   | Symposium             | Celestin D                    |
|   | 1:30 PM    | 3:30 PM  | FB  | 2025 IEEE Cleo Brunetti Award Symposium  | Symposium             | Celestin E                    |
|   | 1:30 PM    | 4:15 PM  | FC  | Unconventional Computing with Magnetism and Magnetic Materials   | Oral Session          | Celestin A                    |
|   | 1:30 PM    | 4:15 PM  | FD  | Magnonics IV: Fundamental Magnonic Properties and Interactions   | Oral Session          | Celestin B                    |
|   | 1:30 PM    | 4:15 PM  | FE  | Biomedical Therapies, Diagnosis and Nanomedicine   | Oral Session          | Celestin C                    |
|   | 1:30 PM    | 4:15 PM  | FF  | Soft Magnetic Materials III  | Oral Session          | Imperial SAB                  |
|   | 1:30 PM    | 4:15 PM  | FG  | van der Waals Materials  | Oral Session          | Imperial SCD                  |
|   | 4:30 PM    | 5:30 PM  |   | IEEE Awards Ceremony   | Special Session       | Celestin D&E                  |
|   | 5:30 PM    | 6:30 PM  | PL  | Plenary Session  | Special Session       | Celestin D&E                  |
|   | 6:30 PM    | 8:00 PM  |   | Plenary Reception  | Networking Event      | Exhibit Hall & Celestin Foyer |
| 8:30 AM   | 12:00 PM   | GA       | Advanced Materials and Devices for Energy Harvesting and Conversion                       | Symposium  | Celestin D            |                               |
| 8:30 AM   | 12:00 PM   | GB       | New Challenges in Nanomagnetism from Topology to the Third Dimension                      | Symposium  | Celestin E            |                               |

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 Afternoon coffee service available on Tuesday through Thursday from 1:30-4:30 pm.

| Date                | Start Time   | End Time | ID   | Event/Session   | Type                           | Location                   |                 |                           |
|---------------------|--|----------|------|---|--------------------------------|----------------------------|-----------------|---------------------------|
| Friday<br>1/17/2025 | 8:30 AM  | 12:00 PM | GC   | Neuromorphic and Reservoir Computing  | Oral Session                   | Celestin A                 |                 |                           |
|                     | 8:30 AM  | 12:00 PM | GD   | Microscopy, Imaging, and Magnetic Characterization II   | Oral Session                   | Celestin B                 |                 |                           |
|                     | 8:30 AM  | 12:00 PM | GE   | Analysis and Design for High-Performance Magnetic Systems   | Oral Session                   | Celestin C                 |                 |                           |
|                     | 8:30 AM  | 12:00 PM | GF   | Ultrafast Magnetisation Dynamics and Switching  | Oral Session                   | Imperial SAB               |                 |                           |
|                     | 8:30 AM  | 12:00 PM | GG   | Electronic Structure and Fundamental Properties   | Oral Session                   | Imperial SCD               |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GP   | Hard Magnets IV & Materials with Coupled Magnetic Phenomena II  | Poster Sessions                | Exhibit Hall               |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GQ   | Spin-orbitronics II: Antiferromagnets, DMI and Unconventional Torques                                     |                                |                            |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GR   | Magnetolectric Materials and Phenomena III & Spintronic Devices III: STT/SOT MRAMs and Switching Dynamics |                                |                            |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GS   | Emerging Computing Using Magnetic and Spintronic Materials  |                                |                            |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GT   | Magnetization Dynamics and Micromagnetics II  |                                |                            |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GU   | Microscopy, Imaging, and Magnetic Characterization III  |                                |                            |                 |                           |
|                     | 9:00 AM  | 12:00 PM | GV   | Electrical Machines, Power Electronics & Electromechanical Conversion                                     |                                |                            |                 |                           |
|                     | 12:15 PM   | 1:15 PM  |      | Workshop: Women in Magnetism  |                                |                            | Special Session | Exhibit Hall Session Room |
|                     | 1:30 PM  | 3:30 PM  |      | IEEE Magnetics Society Standards in Magnetism Meeting   |                                |                            | Special Session | Imperial 12               |
|                     | 1:30 PM  | 3:30 PM  | HA   | Cavity Magnonics and Non-reciprocal Spin Wave Propagation   |                                |                            | Symposium       | Celestin D                |
|                     | 1:30 PM  | 3:30 PM  | HB   | Interdisciplinary and Emerging Topics   | Oral Session                   | Celestin E                 |                 |                           |
|                     | 1:30 PM  | 3:30 PM  | HC   | Computing with Spin Dynamics  | Oral Session                   | Celestin A                 |                 |                           |
|                     | 1:30 PM  | 3:30 PM  | HD   | Statics and Dynamics of Magnetic Textures   | Oral Session                   | Celestin B                 |                 |                           |
|                     | 1:30 PM  | 3:30 PM  | HE   | Sensors and Applications III  | Oral Session                   | Celestin C                 |                 |                           |
|                     | 1:30 PM  | 3:30 PM  | HF   | Terahertz Antiferromagnetic Spintronics   | Oral Session                   | Imperial SAB               |                 |                           |
|                     | 1:30 PM  | 3:30 PM  | HG   | Energy and Power Applications   | Oral Session                   | Imperial SCD               |                 |                           |
|                     | 3:30 PM  | 4:00 PM  |      | Closing Celebration   | Networking Event               | Celestin Foyer             |                 |                           |
|                     | Poster Virtual Only Sessions<br>Available on virtual platform starting<br>January 27, 2024 (subject to change) |          |      | VP1   | Biomagnetics and Microfluidics | Conference Resource Center |                 |                           |
|                     |  |          | VP2  | Electrical Machines and Power Electronics I   |                                |                            |                 |                           |
|                     |  |          | VP3  | Electrical Machines and Power Electronics II  |                                |                            |                 |                           |
|                     |  |          | VP4  | Electrical Machines and Power Electronics III   |                                |                            |                 |                           |
|                     |  |          | VP5  | Electrical Machines and Power Electronics IV  |                                |                            |                 |                           |
|                     |  |          | VP6  | Electrical Machines and Power Electronics V   |                                |                            |                 |                           |
|                     |  |          | VP7  | Electrical Machines and Power Electronics VI  |                                |                            |                 |                           |
|                     |  |          | VP8  | Emerging Computing Systems & Magnetic Recording   |                                |                            |                 |                           |
|                     |  |          | VP9  | Hard Magnets  |                                |                            |                 |                           |
|                     |  |          | VP10 | High Speed Machines   |                                |                            |                 |                           |
|                     |  |          | VP11 | Magnetic Aspects Related to Electromechanical Conversion, Transformers and Inductors                      |                                |                            |                 |                           |
|                     |  |          | VP12 | Magnetic Textures and Dynamics: Experimental Detection and Modeling                                       |                                |                            |                 |                           |
|                     |  |          | VP13 | Magnetolectric Materials and Phenomena & Energy Harvesting and Vibration Analysis                         |                                |                            |                 |                           |
|                     |  |          | VP14 | Materials for Spintronics & Magnetization Dynamics  |                                |                            |                 |                           |
|                     |  |          | VP15 | Microscopy, Imaging, and Magnetic Characterization & Structured Materials                                 |                                |                            |                 |                           |
|                     |  |          | VP16 | Sensors and Applications  |                                |                            |                 |                           |
|                     |  |          | VP17 | Soft Magnetic Materials I   |                                |                            |                 |                           |
|                     |  |          | VP18 | Soft Magnetic Materials II  |                                |                            |                 |                           |
|                     |  |          | VP19 | Soft Magnetic Materials III   |                                |                            |                 |                           |
|                     |  |          | VP20 | Special Machines and Geared Machines I  |                                |                            |                 |                           |
|                     |  |          | VP21 | Special Machines and Geared Machines II   |                                |                            |                 |                           |
|                     |  |          | VP22 | Special Machines and Geared Machines III  |                                |                            |                 |                           |
|                     |  |          | VP23 | Spin-orbitronics: DMI, SOT MRAM and Energy Efficient Switching  |                                |                            |                 |                           |