

MINUTES

2023 Meeting of the GMAG Business Meeting

Location: 2024 March Meeting, Minneapolis, March 5, Rm 101B

Meeting started at 6:15 PST

Attendance:

2022 Executive Committee Members

Chair: Marcelo Jaime

Chair Elect: Clarina dela Cruz

Vice Chair: Cristian Batista

Past Chair: Julie Borchers

Secretary/Treasurer: Jaime Fernandez-Baca

Members-at-Large: Christianne Beekman (virtual attendance), Satoru Emori, Gregory Fuchs, Judit Romhanyi, and Stephen Wilson.

Incoming Exec Comm Members:

Incoming Vice Chair: William Ratcliff

Incoming Secretary/Treasurer: Sujoy Roy

Incoming Members at Large: Luquiao Liu (virtual attendance)

Opening by Marcelo Jaime

Marcelo thanked the members of the Executive Committee whose terms expire by the end of the APS March Meeting 2023: past chair Julie Borchers, Secretary-Treasurer Jaime Fernandez-Baca and members at large Sarah Watzman and Christianne Beekman for their outstanding service. He then welcomed the newly elected incoming members William Ratcliff (incoming Vice Chair), Sujoy Roy (incoming Secretary/Treasurer) and members at large Luquiao Liu and Saima Sidiqqi. The 2023 Executive Committee is:

2023 Executive Committee (terms start after the 2023 March Meeting, except as noted)

Chair: Clarina dela Cruz

Chair Elect: Cristian Batista

Vice Chair: William Ratcliff

Past Chair: Marcelo Jaime

Secretary/Treasurer: Sujoy Roy

Members-at-Large: Satoru Emori, Gregory Fuchs, Judit Romhanyi, Stephen Wilson, Luquiao Liu and Saima Sidiqqi.

Assigned Council Representative: Peter Schiffer.

Secretary/Treasurer report by Jaime Fernandez-Baca

Minutes: Jaime reported that the 2022 executive committee meeting minutes are posted in APS Engage and are accessible only to members of the executive committee. The minutes of the 2023 meeting will be approved via email in a few weeks. The minutes of the 2022 GMAG business meeting are posted in APS Engage and are available to all GMAG members.

Election: The election for 2023 members of the executive committee ran as scheduled on November 16 – December 14, 2022. Only 19% of the total membership voted, a percentual increase from last year's rate of 16%. David Lederman, Lu Li and William Ratcliff ran for Vice-Chair. William Ratcliff was elected. Kirill Belashchenko, Sujoy Roy and Fengyuan Yang ran for Secretary/Treasurer. Sujoy Roy was elected. Huibo Cao, J. Patrick Clancy, Priyamvada Jadaun, Luquiao Liu and Saima Siddiqui ran for Member-at-Large. Luquiao Liu and Saima Siddiqui were elected. The terms of the newly elected members start at the closing of the 2023 March Meeting on March 10, 2023. Jaime thanked the Nominating Committee for putting together an excellent the slate of candidates: Chair Satoru Emori (member at large), Gregory Fuchs (member at large), Alannah Hallas(GMAG Member) and Ni Ni (APS Council appointed member).

Membership status: GMAG had 1218 members as of January 2023. This is a slight decrease of 1% from 1231 members one year ago, and 3.3 2% lower than three years ago (1260 members as January 2020, before the pandemic started). 518 of the members are students, a slight decrease from 527 last year and lower than the 616 student members in 2020. The total APS membership as of January 2023 was 49,710, which is slightly higher than in 2022 (49,433 members) but still lower than in 2020 (54,069 members before the pandemic started).

Financial Statements: Jaime reported that at this time APS has not posted the financial reports for their units for 2022. An update will be provided when we get the report from the APS.

Program Report by Chair-Elect Clarina dela Cruz

Program summary:

- GMAG placed 855 abstracts (787 in person and 68 virtual), the majority from Category #10 Magnetism (vs 787 in 2022 and 846 in 2021)
- This is 7% of the Meeting total of 12,573 oral/invited abstracts, (vs. 8.4% in 2021 and 7.7% in 2020)
- 8 GMAG-sponsored focus topics
- 76 total GMAG-sponsored sessions: 68 FT sessions (60 in person and 8 virtual), 8 invited symposia.
- Number of FT invited talks – 47 (vs. 59 in 2022 and 64 in 2021)
- 3 co-sponsored focus topics (1 led by GMED, 1 by DMP/DCMP and 1 by DMP)

Other GMAG news/events:

- One invited talk allocated for the GMAG Dissertation Award (vs 3 for 2022 awards, 1 for late 2021 award).
- GMAG sponsored three awards to support travel for international invited speakers: 1 Beller Lectureship Award, 1 Marshack Lectureship Award, 1 Special Travel Award.
- GMAG is sponsoring 3 tables at the APS Meet with the Experts for the 2023 March Meeting

Refer to meeting slides for all the details.

The chair of the GMAG program committee for the 2024 March meeting will be Cristian as the new GMAG Chair Elect. As in the past, it was proposed to recruit GMAG executive committee members to

help with identifying FT organizers and with soliciting symposium nominations from the community, and to involve the Vice Chair more extensively so that s/he is aware of what is to come in the following year.

The focus topics and the executive committee volunteers are listed below. Anyone else interested in helping can contact Cristian.

GMAG Focus Topics for March Meeting 2024

10.1.1 Magnetic Nanostructures: Materials and Phenomena

GMAG Coordinators: Satoru Emori

10.1.2 Emergent Properties of Complex Oxides: Bulk, thin films and heterostructures

GMAG Coordinators: William Ratcliff

10.1.3 Spin Transport & Magnetization Dynamics in Metal Based Systems

GMAG Coordinators: Greg Fuchs

10.1.4 Chiral Spin Textures & Dynamics, Including Skyrmions

GMAG Coordinator: Sujoy Roy

10.1.5 Quantum Spin Liquids, Candidate Materials, Models, and Predictions

GMAG Coordinators: Marcelo Jaime

10.1.6 Spin-Dependent Phenomena in Semiconductors, including 2D Materials and Topological Systems

GMAG Coordinator: Luquiao Liu

10.1.7 Frustrated Magnetism

GMAG Coordinator: Judit Romhányi

10.1.8 Low Dimensional and Molecular Magnetism

GMAG Coordinator: Stephen Wilson

Report from Vice Chair Cristian Batista

Fellowship Committee Report: The deadline for nominations GMAG sponsored APS Fellowships was June 1, 2022. There was a total of 13 nominations (including 4 carryovers), 6 of which were international nominees and 1 was a female. The Fellowship Committee members were: Cristian Batista (Chairperson) and the members at large: Christianne Beekman, Sarah Watzman, Gregory Fuchs, Satoru Emori, Judit Romhányi and Stephen Wilson.

GMAG was allocated three slots for 2022 APS Fellows. The committee unanimously selected three nominees, all of which were approved by the APS General Fellowship Committee:

- **Sergio O. Valenzuela**, Institut Català de Nanotecnologia, Spain, “For seminal contributions to spin transport and spin dynamics in metals and van der Waals heterostructures, including spin-orbit-coupling phenomena and proximity effects”.
- **Kyung-Jin Lee**, KAIST, South Korea, “For advancing our ability to manipulate magnetization with current and using that ability to develop new technologies”.

- **Jonathan R Friedman**, Amherst College, MA, “For pioneering experimental research elucidating the quantum behavior of molecular nanomagnets and significant contributions to undergraduate physics research and education”.

It was noted that two of the three new APS Fellows are from an international institutions, and that none of these was a woman or an under-represented minority. The low number of female nominees in recent years is troubling. A concerted effort must be made to increase nominations of females and underrepresented minorities.

The 2023 Fellowship committee will be chaired by William Ratcliff, the members of the committee will be the members at large. We need to send a reminder to the GMAG membership about the deadline for nominations, June 1, 2023. There will be three GMAG Fellowship slots in 2023.

Student Travel Awards: Cristian received record number of 35 email applications for student travel awards by the deadline. Nomination files and scoring sheets were circulated among the members of the selection committee (Members-at-Large + vice chair) for ranking. The committee selected 14 awardees:

- Alexandria Will-Cole Northeastern University
- MD Afzalur Norfolk State University
- Noah Schulz University of South Florida
- Prakash Sharma Florida State University
- Wei-Cheng Liao University of California (Riverside)
- Liyan Jacob University of Memphis
- Rakshit Jain Cornell University
- Xinyao Pei University of California (Irvine)
- Dinesh Wagle University of Delaware
- Emily Lindgren Stanford University
- Haozhe Wang Michigan State University
- Rawana Yagan Koç University, Turkey
- Rachel Nickel University of Manitoba, Canada
- Nupur Khatu Ca’Foscari University of Venice, Italy

The award consists of a \$250 grant to attend the March Meeting plus a \$200 travel grant for students of institutions outside of the US. Six of this year awardees are female; three awards are for students from international institutions. All the award payments have been processed.

Report from Chair Marcelo Jaime:

Sponsorships: During the past year GMAG sponsored two conferences: Silver Partner for the 2022 Joint MMM-Intermag in January 2022 for Best Student Presentation Award (Cost \$3K), and Silver Sponsor of the MMM 2022 in Minneapolis (October 31, November 4, 2022): The “Women in Magnetism Networking Event”(\$1.5K), and the “Student Networking Reception”(\$1.5K).

Outstanding Dissertation in Magnetism Award: Only one nomination (0 females) was received (and awarded) for the GMAG Outstanding Dissertation Award in Magnetism.

- Zhuoliang Ni, Department of Physics and Astronomy, University of Pennsylvania
“Ultrafast optics. Novel optical system design”

The selected nominee received an award of \$500 + \$250 travel grant to attend the March Meeting to present an invited talk in one of the GMAG focus topic sessions. To qualify for this award the students and their supervisors must be GMAG members at the time of the nomination.

Magnetism Outreach Grants: Two proposals for the GMAG Magnetism Outreach Grants were funded this year: “Development of a Robust and Deployable Magnetic Speaker Construction Kit”, Prof. Daniel Shoemaker, Emily Waite, and Dr. Pamela Pena Martin, Department of Physics, University of Illinois, Urbana, IL. \$2,700.00; and “Magnetism Kits for 3rd Grade Classrooms”, Cherie Bornhorst, Teacher in Residence Little Shop of Physics, College of Natural Sciences, Colorado State University, Fort Collins, CO, \$4,800.

APS Leadership Meeting: Christianne, Jaime and Marcelo attended the 2023 in-person APS Annual Leadership Meeting in January. Part of this meeting involved a congressional visit day (CVD), the first in-person visit to Congress since 2020. Christianne, Jaime and Marcelo participated in the CVD, and represented the APS in visits to the offices of congressmen and Senators from Florida, New Mexico, Tennessee and other states. This year’s APS policy priorities were Funding Fundamental Research (CHIPS and Science Act), High Quality STEM Teachers (NSF’s Robert E. Noyce Teacher Scholarship Program, and related legislation), More Inclusive Data Collection (LGBTQ+ Data Inclusion Act), International STEM Students (“Keep STEM Talent Act”), and Monitoring Methane Emissions (Methane Emissions Mitigation Research and Development Act). It was strongly encouraged that William and Cristian attend the 2024 APS Annual Leadership meeting and CVD representing the GMAG Executive Committee officers.

General Discussion

1. A subset of the viewgraphs presented at the meeting of the Executive Committee meeting will be presented at the GMAG business meeting on Tuesday March 7 during the March Meeting.
2. Marcelo proposed to revise the monetary allocations for the various GMAG awards. Currently the Outstanding Dissertation Award at \$500 plus \$250 to attend the March Meeting. The Student Travel Awards are tied to the amount of the March Meeting Student Regular registration fee, plus \$200 for students from international institutions. The Lectureship awards are set by the APS to \$2000. After debating this issue, it was unanimously agreed that starting immediately the allocation for the future Outstanding Dissertation Awards will be raised to \$1,500 each. The allocation for the future Student Travel Awards will be raised to \$500 each, plus \$200 for students from international institutions.
3. A discussion was held about changing the dates of eligibility for the GMAG Outstanding Dissertation in Magnetism Award, to be better synched with the March Meetings. The proposed change is to define the eligibility of the award as “Student’s expected completion date must be after March 31, 20XX, but before March 31, 20XX+1” to be eligible for the 20XX+1 APS March Meeting award”. Marcelo proposed that this should be taken for a vote of the Executive Committee at a later date.
4. Given difficulties identifying minority candidates for Fellowships and Outstanding Dissertation Awards, and the lack of a established procedure to deal with special requests by minority members, Marcelo proposed the creation of a GMAG Diversity, Equity, and Inclusion Committee. This committee would be chaired by GMAG past Chair and include the Chair-Elect (APS prog chair), plus two volunteers from the Executive Committee. This proposition was approved.
5. During the last year discussions were held on how to amend the GMAG bylaws to include student and early career members to the Executive Committee. The Executive Committee

agreed to pursue an amendment to article V – Executive Committee Composition to read: (proposed changes are underlined) “ARTICLE V -- EXECUTIVE COMMITTEE Composition: The Executive Committee shall consist of the Officers of the Topical Group, the most recent Past Chair, six Members-at-Large elected to staggered three-year terms, as well as an Early Career (postdoctoral level) and a Student Member elected to staggered two-year terms.” This amendment needs to be approved by the APS Council before it goes in the GMAG ballot for membership approval.

The meeting adjourned at 7:30 PM PST.

Minutes submitted by
Jaime Fernandez-Baca,
Outgoing GMAG Secretary/Treasurer

Sujoy Roy
Incoming GMAG Secretary/Treasurer

APPROVED ON Dec 02, 2023