

MINUTES

2022 GMAG Business Meeting

Session L29, Rm W-190B

Chicago's McCormick Place

Tuesday March 15th, 2022; 6:15-7:15PM (CDT),

Attending members of the GMAG Executive Committee:

2021 Executive Committee Members

Chair: Julie Ann Borchers

Chair Elect: Marcelo Jaime

Vice Chair: Clarina dela Cruz

Secretary/Treasurer: Jaime Fernandez-Baca

Members-at-Large: Gregory Fuchs, Christianne Beekman, Satoru Emory

Incoming Exec Comm Members:

Judit Romhanyi, Stephen Wilson, Cristian Batista (virtual attendance)

Meeting started at 6:15PM CDT

Opening by Julie Borchers

Julie thanked the GMAG members for attending this business meeting. This is the first time that this meeting takes place in-person since the 2019 March Meeting in Boston. Julie also thanked the members of the of the GMAG Executive Committee whose terms expire by the end of the APS March Meeting 2022: past chair Geoff Beach and members at large Yayoi Takamura and Cristian Batista for their outstanding service. She then welcomed the newly elected incoming members Cristian Batista (in his new role as vice chair), and members at large Judit Romhanyi and Stephen Wilson. The 2022 Executive Committee is:

2022 Executive Committee (terms start after the 2021 March Meeting, except as noted)

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, Sarah Watzman, Satoru Emori, Gregory Fuchs, Judit Romhanyi, and Stephen Wilson.

Assigned Council Representative: Peter Schiffer.

Secretary/Treasurer report by Jaime Fernandez-Baca

Minutes: Jaime reported that the minutes of the 2021 GMAG business meeting are posted in APS Engage and are available to all GMAG members.

Election: The election for 2022 members of the executive committee ran as scheduled on November 17 – December 15, 2021. Only 16% of the total membership voted, a percentual decrease from last year's rate of 20%. Cristian Batista, Martin Mourigal, and Hendrik Ohldag ran for Vice-Chair. Cristian Batista was elected. Adam Aczel, Dario Arena, Dustin Gilbert, Judit Romhanyi, and Stephen Wilson ran for Member-at-Large. Judit Romhanyi and Stephen Wilson were elected.

The terms of the newly elected members start at the close of the 2022 March Meeting on March 18, 2022. Jaime thanked the Nominating Committee for putting together an excellent the slate of candidates: Chair Christianne Beekman (member at large), Satoru Emori (member at large), Oleg Tchernyshyov (GMAG Member) and Suzanne te Velthuis (APS Council appointed member).

Membership status: GMAG had 1231 members as of January 2022. This is an increase of 9% from 1139 members one year ago, but still 2% lower than two years ago (1260 members as January 2020, before the pandemic started). 527 of the members are students, an increase from 480 last year but still lower than the 616 student members two year ago. The increase in the GMAG membership numbers is a reflection that our membership drives are working. The total APS membership as of January 2022 was 49,433, which is lower than in 2021 (49,555 members) and in 2020 (54,069 members before the pandemic started).

Financial Statements: Jaime reported on financial statements through 12/31/2021. The net assets for 2021 were \$88,958.85. Revenue of \$19,365.18 came from Membership dues + investment income +the 2021 March Meeting income. Total expenses in 2021 were \$11,601.30 (\$2340.00 of student awards. \$4000 of sponsorships, \$5000 outreach grant and \$261.30 of promotional materials). Net revenue was \$7,763.88.

Program Report by Chair-Elect Marcelo Jaime

Program summary:

- GMAG placed 787 abstracts, the majority from Category #10 Magnetism (vs 846 in 2021 and 771 in 2020)
- 8 GMAG-led focus topics
- 72 total GMAG sessions: 51 FT sessions, 8 symposia, 13 contributed sessions.
- Number of FT invited talks – 63 (vs. 61 in 2021, 57 in 2020)
- We were allotted 8 symposia and 14 co-sponsored focus topics (2 led by GMED and 12 by DMP)

Other GMAG news/events:

- Four invited talks allocated for the GMAG Dissertation Awardees (1 for 2021 late award, 3 for 2022 awards).
- No APS Beller or Marshak Lectureships (to support international invited speakers for March Meeting) this year. This award can be used to pay for expenses of international FT invited speakers.
- GMAG is sponsoring 5 tables at the APS Meet with the Experts for the 2022 March Meeting

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.

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

GMAG Focus Topics for March Meeting 2023

10.1.1 Magnetic Nanostructures: Materials and Phenomena

GMAG Coordinators: Julie Borchers

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

GMAG Coordinators: Christianne Beekman, Satoru Emori

10.1.3 Spin Transport & Magnetization Dynamics in Metal Based Systems

GMAG Coordinators: Sarah Watzman

10.1.4 Chiral Spin Textures & Dynamics, Including Skyrmions

GMAG Coordinator: Greg Fuchs

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

GMAG Coordinators: Stephen Wilson, Marcelo Jaime

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

GMAG Coordinator: Cristian Batista

10.1.7 Frustrated Magnetism

GMAG Coordinator: Judit Romhányi

10.1.8 Low Dimensional and Molecular Magnetism

GMAG Coordinator: Jaime Fernandez-Baca

Report from Vice Chair Clarina dela Cruz

Fellowship Committee Report: The deadline for nominations was June 1, 2021. There were a total of 15 nominations (including 4 carryovers), 7 of which were international nominees and 3 were women. The Fellowship Committee members were Clarina dela Cruz (Chairperson), and the members at large: Christianne Beekman, Sarah Watzman, Yayoi Takamura, Gregory Fuchs, and Satoru Emori. Clarina dela Cruz is the GMAG Vice-Chair, the others being GMAG Members-at-Large. Member at large Luc Thomas was not able to participate in the fellowship committee.

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:

- **Jamie L. Manson**, Eastern Washington University, *“For the elegant application of quantum-mechanical principles to the design, synthesis, and measurement of new magnetic materials with desirable properties, and for encouraging the involvement of undergraduate students in the highest levels of material discovery.”*
- **Christos Panagopoulos**, Nanyang Technological University, *“For fundamental contributions in controlling magnetism at the atomic scale, and for understanding the ground state of*

unconventional superconductors through the design of novel materials architectures and measurement methods.”

- **Mingzhong Wu**, Colorado State University, *“For seminal and sustained contributions to the understanding of spintronic phenomena in thin-film magnetic insulators and topological materials, and in nonlinear magneto-dynamics.”*

It was noted that one of the three new APS Fellows is from an international institution, and that none of these was a woman or an under-represented minority

The 2023 Fellowship committee will be chaired by Cristian Batista, the members of the committee will be the members at large. A reminder will be sent to the GMAG membership before the deadline for nominations, June 1, 2022. It is anticipated that there will be three GMAG Fellowship slots in 2023.

Student Travel Awards: Clarina received 20 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 11 awardees:

- Jeffrey Brock, UC San Diego
- Kaushik Sarkar, North Carolina Agricultural and Technical State University
- Carolina Rodríguez-Gallo, Universitat de Barcelona
- Emily Hollingworth, UC Berkeley
- Yifei Ni, University of Colorado at Boulder
- Cheng-Hsiang Hsu, UC Berkeley
- Margaret Kane, Stanford University
- Mohammad Tomal Hossain, University of Delaware
- Christopher Mc Donough, Oakland University
- Kwangyul Hu, University of Iowa
- Alvaro Romero-Calvo, University of Colorado at Boulder

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. Three of this year awardees are female. All the award payments have been processed.

Report from Chair Julie Borchers:

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), Bronze Partner for the 2021 Intermag in April 2021 for Meet the Experts (Cost \$1K).

Outstanding Dissertation in Magnetism Award: 8 nominations (4 females) were received for the GMAG Outstanding Dissertation Award in Magnetism, and 3 awards (2 females) were given:

- Jiahao Han, Massachusetts Institute of Technology, *“Harnessing Magnetic Switching and Dynamics Using Electron and Magnon Spin Currents”*
- Yiping Wang, Boston College, *“Raman Measurement on Magnetic Collective Modes and Applications”*
- Valery Ortiz Jiménez, University of South Florida, *“Light-Controlled Magnetism in Two-Dimensional Vanadium Dichalcogenides and Related Semiconductors”*

The selected nominees 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: During the last year three proposals for the GMAG Magnetism Outreach Grants were funded. One in 2021 for the proposal "*Materials Science & Engineering and Magnetism Summer Camp*" by Prof. Roopali Kukreja, University of California, Davis. The other two were funded in 2022 for the proposals "*Careers in Magnetism: Exploring Opportunities in the Wizarding World*", by Prof. Radhika Barua, Virginia Commonwealth University; and "*Demonstration of Magnetic Frustration in a Macroscopic Spin-Ice Network*", by Prof. Benjamin Jungfleisch, University of Delaware

Annual APS Leadership Meeting: Julie and Clarina attended the virtual APS Annual Leadership Meeting in January. Part of this meeting involved a congressional visit. Clarina joined a team of APS leaders to represent Tennessee to speak to the offices of Sen. Marsha Blackburn (R-TN), Cong. Jim Cooper (D-TN-02), Sen. Bill Hagerty (R-TN), Cong. Tim Burchett (R-TN-02) and Cong. Diana Harshbarger speak about championing legislation to address Federal research funding issues, the shortage of STEM teachers, keeping international graduate STEM students from leaving the US and raising awareness on issues regarding the inadequate US missile defense system and methane monitoring.

The 2023 APS Annual Leadership Meeting should be an in-person meeting. It was strongly encouraged that Clarina and Cristian attend representing the GMAG Executive Committee officers.

Update on the future amendment of the GMAG bylaws

Jaime gave an update on the planned amendments of the GMAG bylaws. 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. We will do this in 2022.

The meeting adjourned at 7:15 PM EDT.

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