GMAG Business Meeting
March 16, 2021

• Opening, welcome to new officers (Beach)
• Secretary/Treasurer report (Fernandez-Baca)
• Sponsorship (Fernandez-Baca)
• Program Chair report (Borchers)
• Fellowship Committee report (Jaime)
• Student Travel Awards (Jaime)
• Outstanding Dissertation in Magnetism Award (Beach)
• Any Other Business (All)
2020 Executive Committee

Chair: Geoffrey S Beach (04/20 - 03/21): Massachusetts Institute of Technology MIT
Chair-Elect: Julie Ann Borchers (04/20 - 03/21): National Institute of Standards and Technology
Vice-Chair: Marcelo Jaime (04/20 -03/21): Los Alamos National Laboratory
Past Chair: Eric E Fullerton (04/20 - 03/21): University of California, San Diego
Secretary/Treasurer: Jaime A Fernandez-Baca (04/20 - 03/23): Oak Ridge National Laboratory

Member-at-Large: Vanessa A Sih (04/18 - 03/21): Univ of Michigan - Ann Arbor
Member-at-Large: Sara Haravifard (04/18 - 03/21): Duke University
Member-at-Large: Dr. Luc Thomas (03/19 - 02/22): Applied Materials Inc
Member-at-Large: Yayoi Takamura (03/19 - 02/22): University of California, Davis
Member-at-Large: Sarah J Watzman (05/20–03/23): University Of Cincinnati
Member-at-Large: Christianne Beekman (05/20–03/23): Florida State University

Assigned Council Representative: Division of Material Physics: Samuel Bader

Outgoing Executive committee members highlighted in yellow
2021 Executive Committee

Chair: Julie Ann Borchers (03/21 - 03/22): National Institute of Standards and Technology
Chair-Elect: Marcelo Jaime (03/21 - 03/22): Los Alamos National Laboratory
Vice Chair: Clarina dela Cruz (03/21 - 03/22): Oak Ridge National Laboratory
Past Chair: Geoffrey S Beach (04/20 - 03/21): Massachusetts Institute of Technology MIT
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Member-at-Large: Sarah J Watzman (03/20–03/23): University Of Cincinnati
Member-at-Large: Christianne Beekman (03/20–03/23): Florida State University
Member-at-Large: Gregory Fuchs (03/21 -03/24): Cornell University
Member-at-Large: Satoru Emori (03/21 – 03/24) Virginia Tech

Assigned Council Representative: Division of Material Physics: Peter Schieffer

WELCOME TO THE INCOMING EXECUTIVE COMMITTEE MEMBERS
Highlighted in yellow
Secretary/Treasurer Report

Jaime Fernandez-Baca

- 2020 Meeting Minutes
- Election Results
- Membership Numbers
- Financial Report
- Outreach Grants and Sponsorship
GMAB Business Meeting Minutes

Business meeting notes posted online in APS Engage for GMAG Members to view (2019):

https://engage.aps.org/gmag/governance/meeting-minutes

There was no GMAG Business Meeting in 2020 (there was no March Meeting).
Election Results for 2021 Officers

• Election ran November 16 – December 14, 2020
• 1271 total members, 20% voted (vs. 1349 total members, 17% of members voted last year)
• **Vice Chair**
  – Nicholas Butch (National Institute of Standards and Technology)
  – Clarina dela Cruz (Oak Ridge National Laboratory)
  – Hendrik Ohldag (Lawrence Berkeley National Laboratory)
• **Member-at-Large**
  – Igor Barsukov (UC – Riverside)
  – Satoru Emori (Virginia Tech)
  – Gregory Fuchs (Cornell University)
  – Fernando Luis de Araujo Machado (Universidade Federal de Pernambuco)
  – Kemp Plumb (Brown University)
  – Wei Tian (Oak Ridge National Laboratory)
  – Jiadong Zang (University of New Hampshire)
Nominating Committee

Thanks to the Nominating Committee for putting together an excellent slate of candidates

Chair: Yayoi Takamura
GMAG Exec. Comm. Member: Christianne Beekman
GMAG Member: William Ratcliff
Council Appointed Member: Axel Hoffmann
Outgoing Exec Comm Members

GMAG thanks the outgoing members for their dedicated service:

- Past Chair: Eric Fullerton
- Members-at-Large: Sara Haravifard and Vanessa A Sih
GMAG Membership

➢ 1139 members as of January 2021
➢ Down from 1260 a year ago ( -9%)
➢ 480 student members
  • 616 in 2020
  • 593 in 2019
➢ APS membership: 49,555, down from 54,069 a year ago ( -8.3%)
➢ No March Membership Drive in 2020
GMAG financial statements - Overview
(as of 12/31/2020)

LIABILITIES & NET ASSETS

Topical Group on Magnetism and its Applications
## GMAG financial statements - Summary

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<tr>
<td><strong>LIABILITIES</strong></td>
<td>$81,232.01</td>
<td>$79,036.04</td>
<td>$74,263.44</td>
<td>$70,588.80</td>
<td>$70,114.68</td>
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<td><strong>EARNINGS</strong></td>
<td>$8,345.97</td>
<td>$19,684.11</td>
<td>$21,189.41</td>
<td>$19,434.15</td>
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<td><strong>EXPENSES</strong></td>
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<td><strong>NET REVENUE</strong></td>
<td>$2,195.97</td>
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<td><strong>BOARD DESIGNATED</strong></td>
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## GMAG financial statements - Revenue

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<td><strong>YTD Liabilities/</strong></td>
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<td>Net Assets</td>
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<td>$19,684.11</td>
<td>$19,131.80</td>
<td>$21,189.41</td>
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<tr>
<td>Membership</td>
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<td>March Meeting</td>
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<td>$12,275.00</td>
<td>$12,055.00</td>
<td>$14,305.00</td>
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<td></td>
<td>(N/A Boston)</td>
<td>Los Angeles</td>
<td>New Orleans</td>
<td></td>
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<tr>
<td>Invest. Income</td>
<td>$2,045.97</td>
<td>$1,909.11</td>
<td>$1,751.80</td>
<td>$1,679.41</td>
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*After $330 used to fund 1st year free topical group membership waiver*
### GMAG financial statements - Expenses

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<th>2020</th>
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</table>

**Detailed 2020 Expenses**

- **Audiovisual**
  - Conv. Ctr. food expenses
    - Business Mtg
    - Lunch with Experts
  - Exec Comm Mtg dinner
  - March meeting awards $3,900.00

- Awards at other meetings $2,250.00
  - $2,250 MMM 2020-Best student presentation awards

- Mailings

- Sorters Travel
Sponsorships

- Sponsored MMM 2020 virtual conference (best student presentation award) at the level of $2,250.00
- GMAG has agreed to sponsor the 2021 Intermag “Meet the Experts” event ($1000 contribution):
  
  *Live interactive event which fosters communication between students and a distinguished group of magnetism experts. GMAG logo will be prominently displayed in each expert’s virtual meeting room. Expected attendance ~120 per event.*
Call for Outreach Proposals

• Outreach grants up to $5,000
• Applications accepted anytime by incoming GMAG Chair Julie Borchers and will be considered by the Exec Committee
• Details in the Newsletter and on the GMAG website: http://www.aps.org/units/gmag/outreach/index.cfm
2021 Outreach Grant

- Materials Science & Engineering and Magnetism Summer Camp -- $5,000
  - Prof. Roopali Kukreja, Univ. of California, Davis
  - Week-long STEM summer camp for 25-30 underrepresented minority and first-generation High School and Community College students, organized in collaboration with AvenueE and UC Davis Mathematics, Engineering Science Achievement (MESA) Center.
Sponsorships Requests

- The organizers of 2021 Intermag in April have requested that we sponsor their meeting by adding their logo to the GMAG webpage and vice versa. They request no financial support.
- Traditionally we have been sponsoring the MMM Best student presentation award at the $2,250 level.
GMAG Program Chair Report

Julie Borchers

• 2021 March Meeting GMAG statistics
• Invited Symposia
• GMAG Focus Topics
• Other GMAG activities
• Abstract Sorting Report
GMAG at the 2021 March Meeting

- Responsible for **ALL** of Sorting Category #10 “Magnetism”
  - 846 oral/invited abstracts placed (771 in 2020 and 840 in 2019)
    - ~8.4% of ~10,076 total oral/inv abstracts (7.7% in 2020 and 8.3% in 2019)
  - 90 total GMAG-sponsored sessions with 64 FT Sessions, 6 Symposia, plus 20 co-sponsored (2020: 59 FT Sessions, 6 Symposia, plus 2 co-sponsored 2019: 65 FT Sessions, 7 Symposia, plus 22 co-sponsored)

- **GMAG Sponsored Focus Topics:** 8
  - 64 GMAG sponsored (and sorted) FT Sessions (59 in 2020 and 65 in 2019)
  - 61 GMAG FT Invited Talks (57 in 2020 and 59 in 2019, incl. 1 Students Dissertation Award)

- **GMAG co-sponsored Focus Topics:** 3 (1 led by GMED and 2 by DMP)

- **Invited Symposia:** 6

Topical Group on Magnetism and its Applications
GMAG-Sponsored Invited Symposia

- **GMAG was allotted 6 invited symposia (same as 2019 and 2020)**
- Nominations required from FT organizers and solicited from GMAG membership via email, and targeted outreach by FT organizers. Symposia selections for 2020 meeting were reconsidered.
- Symposia selected by vote of GMAG Executive Committee
  
  2021: 14 nominations and 6 symposia to consider from cancelled 2020 meeting
  
  2020: 10 nominations
  
  2019: 10 nominations (2 to DCMP and 1 to GMED); only 4 were compelling
  
  2018: 12 complete nominations
  
  2017: 13 nominations
  
  2016: 8 nominations
  
  2015: 15 nominations

**2021 Symposia:**

- **B35.** Topological Spintronics using Chiral Antiferromagnets (from 2020 meeting)
- **C35.** Advances in Spin Transport and Proximity Near Nanoscale Interfaces and Materials
- **E35.** Magnetic Interactions at Complex Oxide Interfaces (from 2020 meeting)
- **R35.** Magnetic Skyrmions in Novel Itinerant Magnets
- **S35.** Low-Dimensional van der Waals Magnets
- **X35.** New Kitaev Magnets
GMAG-Sponsored Focus Topics

... a special thanks to the FT organizers!

<table>
<thead>
<tr>
<th>Focus Topic 2021</th>
<th>2021</th>
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<tbody>
<tr>
<td><strong>10.1.1 Magnetic Nanostructures: Materials and Phenomena (GMAG/DMP)</strong></td>
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<tr>
<td><em>Vincent Sokalski, Dario Arena, Andreas Berger</em></td>
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<tr>
<td><strong>10.1.2 Emergent Properties Bulk of Complex Oxides (GMAG/DMP/DCOMP)</strong></td>
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<tr>
<td><em>Mohit Randeria, Gang Cao, Stephan Rosenkranz</em></td>
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<tr>
<td><strong>10.1.3 Magnetic Oxide Thin Films and Heterostructures (GMAG/DMP/DCOMP)</strong></td>
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<tr>
<td><em>Satori Emori, A. Ariando, Divine Kumah</em></td>
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<td><strong>10.1.4 Chiral Spin Textures &amp; Dynamics, Including Skyrmions (GMAG/DMP)</strong></td>
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<td><em>Jiadong Zang, Lisa DeBeer-Schmitt, Jacob Gayles</em></td>
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<tr>
<td><strong>10.1.5 Spin Transport &amp; Magnetization Dynamics in Metals Based Systems</strong></td>
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<tr>
<td><em>(GMAG/DMP/FIAP)</em></td>
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<td><em>Hyunsoo Yang, Ran Cheng, Benedetta Flebus</em></td>
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<td><strong>10.1.6 Spin-Dependent Phenomena in Semiconductors, Including 2D Materials</strong></td>
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<td>and Topological Systems (GMAG/DMP/FIAP/DCOMP)</td>
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<td><em>Michael Flatte, Roland Kawakami, Sergio Valenzuela</em></td>
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<td><strong>10.1.7 Frustrated Magnetism (GMAG/DMP)</strong></td>
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### GMAG-Sponsored FT Statistics

... a special thanks to the FT organizers!

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<td>7 or 6?</td>
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Topical Group on Magnetism and its Applications
Co-Sponsored Focus Topics

Current co-sponsored focus topics (20 co-sponsored sessions)

10.1.9 Magnetic Topological Materials (DMP/GMAG)
   This topic generated most of co-sponsored sessions. Should GMAG start a version of this or coordinate with DMP to lead?

10.1.10 Magnetism in Biomedicine (GMED/GMAG/DBIO) –
   New this year. Only one Session.

10.1.11 Devices from 2D Materials: Function, Fabrication and Characterization (DMP/GMAG)
Virtual Abstract Sorting

- Sorting Conducted Electronically Using ScholarOne:
  - Abstracts released on November 13, and sorting period ended November 30 (after extension) after two to three weeks.
  - Abstracts sorted by GMAG FT Organizers using ScholarOne. (Note ScholarOne may be replaced for 2022 meeting.)
  - A virtual mini sorters meeting was held on Dec. 4 with only Programming Chairs in attendance. Focus of the meeting was arranging the sorted Sessions into the program schedule, which was completed on an electronic schedule board. Note that GMAG Program Chair should have electronic list of all GMAG sessions and session chairs readily available to expedite process.
  - It is likely the mini-sorters meeting will be virtual for all future meetings.
New Focus topic ideas/discussion

- Are we OK with the current focus topics??
- DMP focus topics feature lots of magnetism. One of their largest topics is **10.1.9 Magnetic Topological Materials (DMP/GMAG)**
  Should we sponsor a similar topic? Should we ask for GMAG to be the lead sponsor?

- For 2021 meeting, we updated 10.1.5 title: Spin-Dependent Phenomena in Semiconductors, *Including 2D Materials and Topological Insulators*
  Objective was to make a home for increasing numbers of 2D/TI abstracts. Saw an increase from 5 to 7 sessions.
Other GMAG News/Events

• 2020 APS Medal for Exceptional Achievement in Research

Myriam Sarachik
The Metal-Insulator Transition in Strongly Interacting Electron Systems in Two Dimensions

• GMAG will sponsor 6 tables at the APS Meet with the Experts for the 2021 March Meeting
Other GMAG Meeting Events

Join us for the GMAG Networking Sessions:

**Hours of operation:**
- Monday, March 15 - 5:30pm-6:00pm CDT
- Tuesday, March 16-Friday, March 19 - 11:30am-1:00pm CDT
- Tuesday, March 16-Thursday, March 18 - 5:30pm-7:00pm CDT

**Session C83:** (Mon. 3/15 5:00pm-6:30pm CT, Eric Fullerton, UC San Diego)
**Session F85:** (Tue. 3/16 11:30am-1:00pm CT, Marcelo Jaime, Los Alamos National Lab)
**Session K82:** (Tue. 3/15 5:30pm-6:00pm CT, Jaime Fernandez-Baca, Oak Ridge Nat. Lab)
**Session M83:** (Wed. 3/17 11:30am-1:00pm CT, Sara Haravifard, Duke University)
**Session P83:** (Wed. 3/17 5:30pm-7:00pm CT, Clarina Dela Cruz, Oak Ridge National Lab)
**Session S84:** (Thu. 3/18 11:30am-1:00pm CT, Julie Borchers, NIST Gaithersburg)
**Session V84:** (Thu. 3/18 5:30pm-7:00pm CT, Christianne Beekman, Florida State Univ)
**Session Y82:** (Fri. 3/19 11:30am-1:00pm CT, Satoru Emori, Virginia Tech)
Fellowship Committee:

Marcelo Jaime (Chair), Vanessa Sih, Yayoi Takamura, Luc Thomas, Sarah Watzman, Christianne Beekman, and Sara Haravifard

Nomination deadline: June 1, 2020 (extended to June 15, Covid-19)

12 nominations including 5 carryovers

In 2016 APS instituted new method for calculating number of Fellows elected in each unit

\[\#\text{Fellows} = 0.005 \times (\#\text{Unit Members} - \#\text{Students})\]

GMAG allocated 3 slots in 2020
2019 GMAG-Sponsored APS Fellows

**Can-Ming Hu**, University of Manitoba, Canada: For outstanding contributions to the fields of cavity spintronics and cavity magnonics, and for significant contributions to the development of electrical methods for studying magnetization dynamics.

**William D. Ratcliff**, NIST, USA: For seminal neutron scattering studies of the magnetic order and spin dynamics in multiferroic materials.

**Oleg V. Tchernyshyov**, Johns Hopkins University, USA: For seminal advances in magnetic solitons and the development of collective-coordinate formalism of dynamics of magnetic solitons for ferromagnetic thin wires, skyrmion crystals and extended domain walls.
2020 GMAG-Sponsored APS Fellows

Jian-Ping Wang: For outstanding contributions to the synthesis and fundamental understanding of magnetic and spintronic materials, and fabrication of devices for applications in computing.

Mathias Klaui: For seminal experimental study of spin transport and the dynamics and manipulation of spin textures at the nanoscale in magnetic materials.

Ilya Krivorotov: For seminal and sustained experimental contributions to the understanding of spin torques and non-linear magnetization dynamics in magnetic nanostructures.
APS Fellowship Committee report

Moving forward:

• Nominations due June 1, 2021

• Nominations submitted electronically: https://aps-fellowship.fluidreview.com/

• Must be APS Member as of Jan. 1, 2021

• Nominations by the community are critical to this process. Diversity of candidates should be actively sought.

  8 female Fellows elected by GMAG (9%)
Student Travel Award report
Marcelo Jaime

- Nominations ranked by Selection Committee (GMAG Ex Comm Members-at-Large + Vice Chair)
- 9 awardees (Full reimbursement for 2021 APS March Meeting student registration fee).
- Winners providing service to GMAG and APS by
  - Attending GMAG Business Meeting
  - Helping out at GMAG virtual networking rooms
# Student Travel Award Winners

<table>
<thead>
<tr>
<th>Name</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raftrey, David</td>
<td>UC Santa Cruz</td>
</tr>
<tr>
<td>Sheehan, Brendan</td>
<td>Amherst College</td>
</tr>
<tr>
<td>Shakya, Ambika</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Wu, Po-Hsun</td>
<td>National Taiwan University</td>
</tr>
<tr>
<td>Shim, Juile Soho</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Etesamirad, Arezoo</td>
<td>UC Riverside</td>
</tr>
<tr>
<td>Chen, Guanchu</td>
<td>Amherst College</td>
</tr>
<tr>
<td>Kish, Lazar</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Chiu, I-Ting</td>
<td>UC Davis</td>
</tr>
</tbody>
</table>
Outstanding Dissertation in Magnetism Awards

- Award consisting of a $500 prize, $250 travel reimbursement to attend the APS March Meeting, and an invited talk at the March Meeting.
- Nominations due Sept. 21, 2021. Details on GMAG website.
- Congratulations to the 2021 Dissertation Award Winner:
  
  **Mitchell Bordelon**, Univ. of California, Santa Barbara
  
  Advisor: Prof. Stephen Wilson
  
  “Magnetic Frustration and Quantum Disorder in J\textsubscript{eff}=1/2 Lanthanide-Based ALnX\textsubscript{2} Materials"
Other Business

• GMAG is due for by-law review, including adding an Exec. Comm. member-at-large designated explicitly for an early career scientist/student. Student membership in GMAG is a high fraction, and representation is desired at the governance level.

<table>
<thead>
<tr>
<th>Member Type</th>
<th>Early Career</th>
<th>Grad. Student</th>
<th>Lifetime</th>
<th>Regular</th>
<th>Senior/Retired</th>
<th>Undergrad Student</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>102</td>
<td>456</td>
<td>55</td>
<td>475</td>
<td>41</td>
<td>41</td>
<td>1175</td>
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<tr>
<td>Percentage</td>
<td>8.7%</td>
<td>38.8%</td>
<td>4.7%</td>
<td>40.4%</td>
<td>3.5%</td>
<td>3.9%</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

• Any other comments from the GMAG members?