

2018 GMAG Business Meeting Minutes, APS March Meeting, Los Angeles

Location: Los Angeles Convention Center, Session J24, Room 403A, March 6, 2018, 5:45pm – 6:45pm

GMAG Exec Comm Attendance:

Chair: Chris Leighton

Chair Elect: Stephen Hill

Vice Chair: Eric Fullerton

Past Chair: Suzanne te Velthuis

Secretary/Treasurer: Yumi Ijiri

Members-at-Large: Elke Arenholz (absent), Christian Binek, Peter Fischer, Ilya Krivorotov, June Lau, David Lederman

Chair Chris Leighton began the meeting at 6 pm with an overview of the agenda.

Secretary/Treasurer report by Yumi Ijiri

2017 Meeting Minutes

Yumi reported that the minutes of the 2017 Business meeting can be found online for GMAG members to view: <http://www.aps.org/units/gmag/governance/minutes/upload/march17.pdf>

Election Results

The Election for 2018 members ran December 12, 2017 – January 23, 2018. GMAG had 1132 members at that time and 21.0% of the membership voted. Geoff Beach was elected as Vice Chair. Sara Haravifard and Vanessa Sih were elected as Members-at-Large. Their terms begin at the close of the March Meeting. The business meeting attendees gave the three new officers a round of applause.

Yumi thanked all the candidates for their willingness to serve and thanked the Nominating Committee for putting together the slate of candidates: David Lederman (Chair), Ilya Krivorotov (GMAG Exec Comm member), Julie Borchers (GMAG member) and Dan Ralph (Council appointed member). She thanked as well the outgoing Executive Committee members for their dedicated service: Suzanne te Velthuis (Past Chair), Ilya Krivorotov and David Lederman (Members-at-Large). The audience applauded the outgoing members.

Membership status

GMAG had 1131 members as of January. That is an increase from 1091 members one year ago. 577 members are students. GMAG had 547 student members last year. APS total membership is 55,368. During the March Meeting 2017 membership drive, we got 30 new names for the 1-year free membership.

Financial Statements

Yumi reported on the financial statements through 12/31/2017, thus not including the cost of March Meeting activities in 2018. The net assets for 2017 were \$70,588.80. Revenue of \$21,189.41 came from Membership dues + GMAG's share of the March Meeting + investment income. Total expenses in 2016 were \$19,715.29. Net revenue was \$1,474.12.

Status of the Outreach Grants

In 2016, the Exec Comm voted to fund an outreach proposal submitted by Prof. Enrique Del Barco at the Univ. of Central Florida, in the amount of \$5,000, for a summer camp called Physics Youth Scholastic and Instructing Camp for Orlando Scientists (PhySICOS). It was a week-long summer camp for 40 high school students in the surrounding counties. It was being organized by graduate students, in collaboration with similar chemistry and biology camps at UCF, and took place in June 2017.

PhySICOS website: <http://sciences.ucf.edu/physics/physicos/>

Call for Outreach Proposals: Outreach grants for up to \$5000 are available. Applications are accepted anytime by the GMAG Chair Steve Hill and will be considered by the Exec Comm. You can find more details on the Call for Outreach Proposals in the Newsletter and on the GMAG website:

<http://www.aps.org/units/gmag/outreach/index.cfm>.

The Best Student Presentation Award Sponsorship

This award sponsorship took place at the MMM Conference in Pittsburgh, November 2017: \$1000 for the winner + \$250 for each of 5 finalists, \$2250 total. GMAG membership was required by all applicants. The winner was Jiamin Chen, University of Tsukuba, for "Enhancement of L_2 order and spin-polarization of Co_2FeSi thin film by substitution of Fe with Ti." Other finalists were Mukund Bapna (Carnegie-Mellon University), Bryan Esser (The Ohio State University), Hwaider Lin (Northeastern University), Naveen Sisodia (IIT Delhi).

Program Report from Chair Elect Steve Hill

Steve started with a statistics summary:

- 886 abstracts placed out of 894 submitted to Category #10 Magnetism
- This is 11% of the Meeting total, ~8100 oral abstracts (9200 in total). (10% in 2016)
- 88 total GMAG sessions: 67 FT sessions, 11 symposia, and 10 additional co-sponsored with other units as lead
- 8 Focus Topics sponsored/co-sponsored: 59 invited talks, 67 focus sessions
- For the 11 symposia: 5 sponsored and 6 co-sponsored

GMAG was allotted 5 invited symposia, and nominations were solicited from the GMAG membership. 12 completed nominations were received, and the symposia were selected by vote of the Exec Comm. There was a competition for the 5 symposia slots, and very good nominations were not selected. GMAG has a total of 11 symposia: 5 sponsored and 6 co-sponsored. There is the "n-1" rule: the number of invited talks for a Focus Topic is equal to the number of sessions for that Focus Topic in the previous year minus 1. Sessions seemed to be in good shape.

He commented on additional GMAG Activities:

- The 2017 GMAG Dissertation Awardees, Dennis Christensen (Technical University of Denmark) and Rebecca Dally (University of California-Santa Barbara), had respective invited talks, "When conductivity and magnetism emerge at a spinel/perovskite heterointerface" and "Amplitude mode in a spatially anisotropic 2D lattice $\alpha\text{-NaMnO}_2$." Unfortunately, due to travel difficulties, Dennis Christensen was unable to attend.
- Two GMAG speakers, Alina Deac and Santiago Grigera, received Beller Lectureships for international visitors.

- GMAG sponsored 5 tables at the APS Student Lunch with the Experts. GMAG Exec. Comm. members Peter Fischer, Eric Fullerton, Steve Hill, Yumi Ijiri, and Suzanne te Velthuis served as experts at the lunch.

Steve made other comments:

- Abstract sorting was conducted electronically using ScholarOne. He gave special thanks to the focus topic organizer group leaders.
- Only a small number ~30-40 attended a Dec. meeting to place sessions in the program.
- Very full sessions in GMAG-only one empty slot at the end of the Dec. meeting.

Report from Vice Chair Eric Fullerton

Fellowship Committee Report

In 2016, the APS Council instituted a new method for calculating the number of Fellows that can be elected in each unit. The new method, which is being phased in, excludes student members in the calculation:

- For 2016/17, #Fellows = $0.005 \times (\#Unit\ Members - \frac{1}{2} \# Students) = 4^*$
- From 2018, #Fellows = $0.005 \times (\#Unit\ Members - \# Students) = 3^*$
- No alternates or matching alternates!
- Nominees should be an APS member on Jan. 1 of the preceding year.

*Based on current unit membership.

The deadline for nominations was June 1, 2017. Out of the 21 nominations received, 19 were considered. The Fellowship Committee consisted of Eric Fullerton (Chair), Ilya Krivorotov, David Lederman, Peter Fischer, Christian Binek, June Lau, and Elke Arenholz. After individual ranking, email discussion and a short conference call, 4 nominations were forwarded to the APS General Fellowship Committee. All 4 were elected by APS.

The 2017 GMAG sponsored APS fellows are:

Enrique Del Barco, University of Central Florida, USA

Citation: For seminal and sustained contributions to the understanding of quantum phenomena in low dimensional magnetic materials, primarily through experimental studies of quantum tunneling in molecular magnets.

Stephane Mangin, Université de Lorraine, France

Citation: For significant contributions to the understanding of spin transfer torque switching of perpendicularly magnetized layers and pioneering studies of light induced magnetization switching in technologically important materials

Robert Stamps, University of Glasgow, UK

Citation: For influential and seminal works relevant to fundamental and applied aspects of spintronics, magnetic data storage, and non-volatile magnetic memory, from the perspective of microwave and optical frequency excitations of complex magnets, and ordering dynamics in spin systems far from equilibrium.

Vivien Zapf, Los Alamos National Laboratory, USA

Citation: For seminal contributions to the understanding of quantum mechanical properties of superconductors, quantum magnets, and multiferroic systems at low temperatures and in extreme magnetic fields to 100T.

Enrique del Barco, Stephane Mangin, and Viven Zapf came up to receive their award certificates and pins and pose for pictures.

Nominations moving forward are due on June 1, 2018. There is a new nomination system for 2018. Refer to:

<http://www.aps.org/programs/honors/fellowships/nominations.cfm>

<https://aps-fellowship.fluidreview.com>

GMAG leadership will coordinate to make sure correct nominations are carried forward this year. Much work remains to be done with regard to diversity: only 10% of GMAG member Fellows are female, and only 8 female Fellows have been sponsored by GMAG.

Student Travel Awards

37 applications were received (29 in 2016). They were ranked via email by the Exec Comm. Fourteen awards were given out this year, \$250 each. All winners should be present at the Business Meeting to receive their award, and they have also provided service to GMAG and APS by helping out at the GMAG membership table and/or Contact Congress Booth. There was good participation from the awardees in these activities. Eric read the students' names, and they came to the front to receive their checks and certificates and pose for a group picture.

The 14 Student Travel Awardees are:

Bassim Arkook, UC Riverside

Dhritiman Bhattacharya, Virginia Commonwealth University

Dinah Simone Bouma, UC Berkeley

Grace Causer, University of Wollongong

Eleanor Clements, University of South Florida

Noah Kent, UC Santa Cruz and LBNL

Yunqiu (Kelly) Luo, The Ohio State University

Stephen McMillan, University of Iowa

Dante O'Hara, UC Riverside

Shengjie Shi, Cornell University

Phoebe Tengdin, Univ. Colorado Boulder

Priyanka Vaidya, University of Central Florida

Aaron Wegner, University of Virginia

Jacob Wisser, Stanford University

Report from Chair Chris Leighton

Outstanding Dissertation in Magnetism Award

Chris restated the names of the 2018 Outstanding Dissertation in Magnetism Award winners: Dennis Christensen, Technical University of Denmark, thesis title: "Exploring magnetic and electronic properties in γ -Al₂O₃/SrTiO₃"

Rebecca Dally, University of California-Santa Barbara, thesis title: "Complex spin interactions in spin-orbit intertwined antiferromagnets NaMnO₂ and Na₄Ir₃O₈."

Rebecca Dally came forward to receive an award certificate and check and pose for a picture.

Formal Requests for Funding/Endorsement

Chris announced the following other uses of GMAG funds:

- 1) GMAG is continuing to support the APS IRTAP (International Research Travel Award Program), \$1K per year.
- 2) GMAG has already committed \$2K for the ICM (International Conference on Magnetism) 2018 for poster awards.
- 3) GMAG will support three student travel awards (\$750 each) for the 2019 Joint MMM/Intermag Conference.

Reminders of webpages on the GMAG website

Chris showed the pages:

Awards: <http://www.aps.org/units/gmag/awards/index.cfm>

Outreach: <http://www.aps.org/units/gmag/outreach/index.cfm>

Other Business

Chris brought up the idea posed by APS of having a graduate student member at large for the topical group, as well as logistical questions (length of term, a similar post-doc member, suggestions on identifying candidates, etc). By a large majority (through a show of hands), the audience appeared supportive of the concept of a graduate student member at large for GMAG.

Chris mentioned the extended abstract deadline for the ICM 2018 in San Francisco this summer.

The meeting was adjourned at 6:38pm.

Respectfully submitted,

Yumi Ijiri

GMAG Secretary/Treasurer