

SIAG/DM BUSINESS MEETING

June 15, 2010, 6:00-7:00pm





Agenda for Business Meeting

- SIAM Activity Group in Discrete Math : New Board for 2010-11
- SIAG/DM Membership report
- SIAG/DM Announcements: Next Board Election 2011; Charter Renewal; Website; Newsletter; SIAM News
- SIAG/DM Other Conferences: SIAM Annual Meeting, ICIAM, SODA
- Discrete Math Conference: History; Planning for DM12
- Dénes König Prize
- SIAM Book Publishing in Discrete Mathematics
- Possible other SIAG activities for the future
- Adjourn



Special Thanks to Outgoing Officers

2008-2009

Carla Savage, Chair

Bojan Mohar, Vice Chair

Lorna Stewart, Program Director

Ortrud Oellermann, Secretary



New SIAG/DM Officers

2010-2011

Jerry Griggs, Chair

Karen Collins, Vice Chair

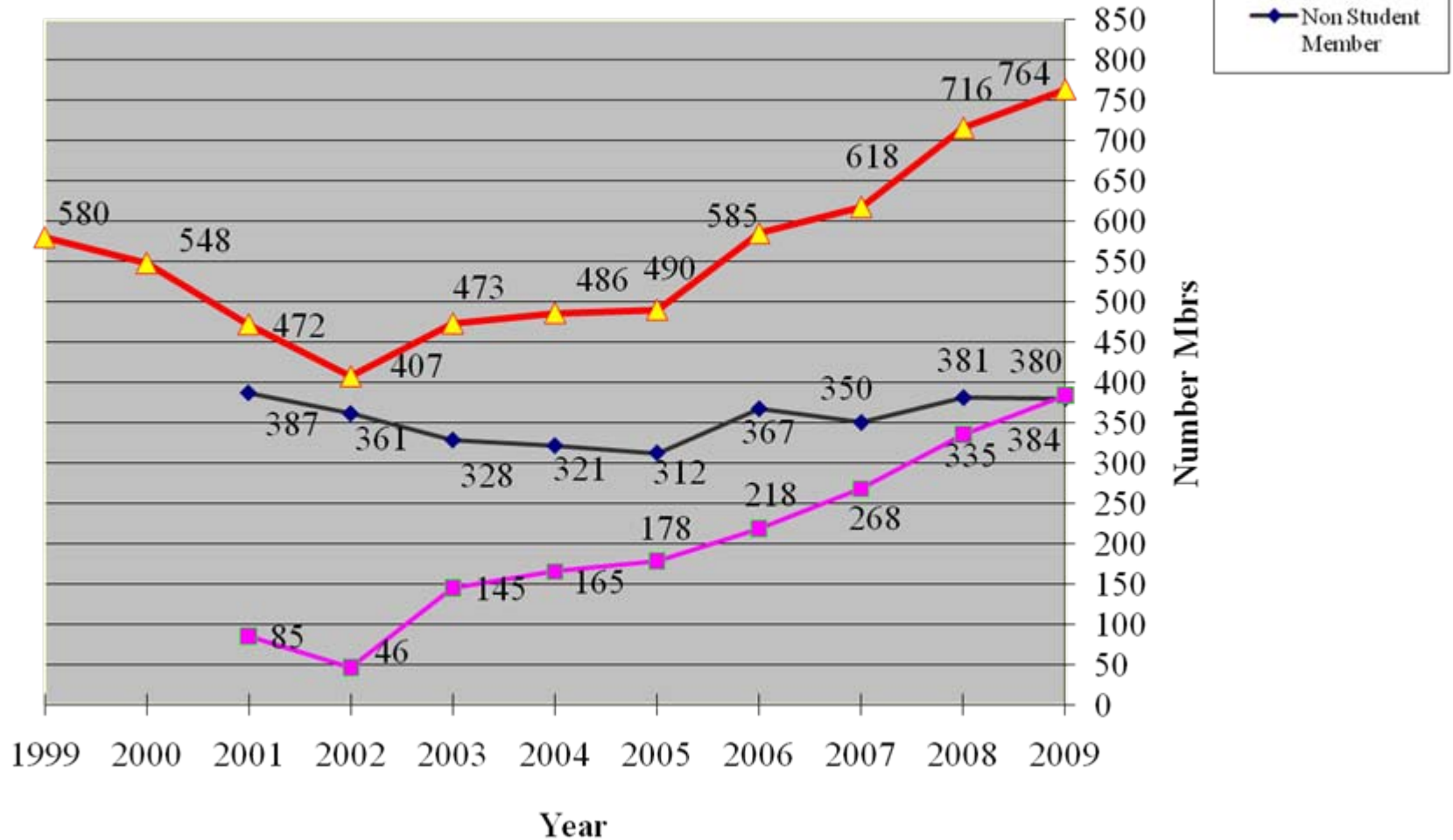
Kathie Cameron, Program Director

John Schmitt, Secretary

SIAG/DM
MEMBERSHIP
REPORT
(as of 12/31/09)

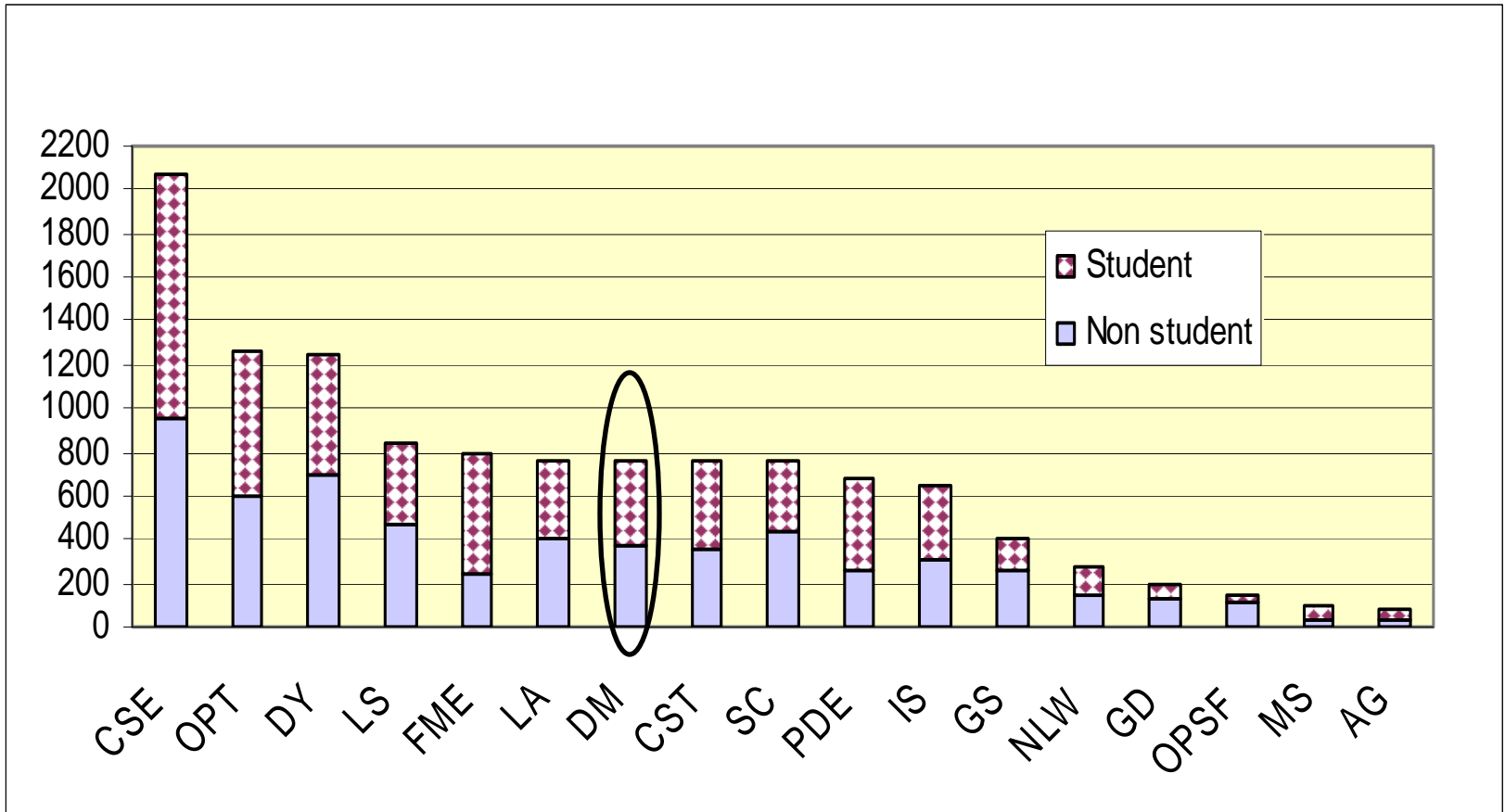


SIAG/DM Membership History



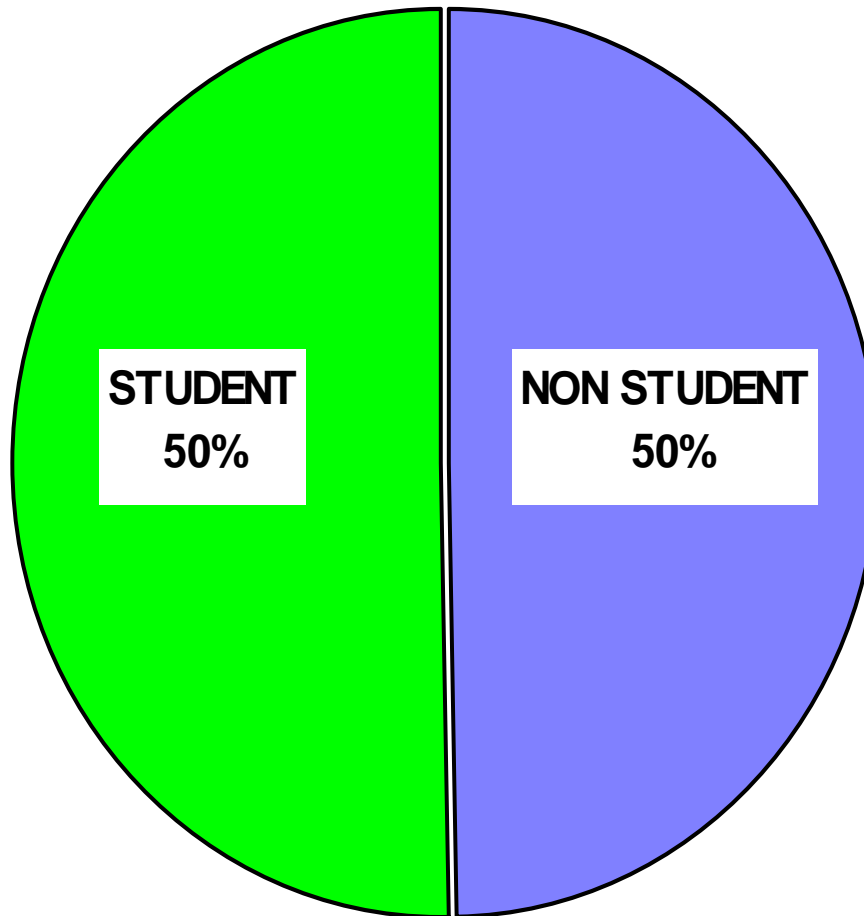
Activity Group Membership 12/31/09

46% non-students and 66% students belong to a SIAG



SIAG/DM MEMBERS

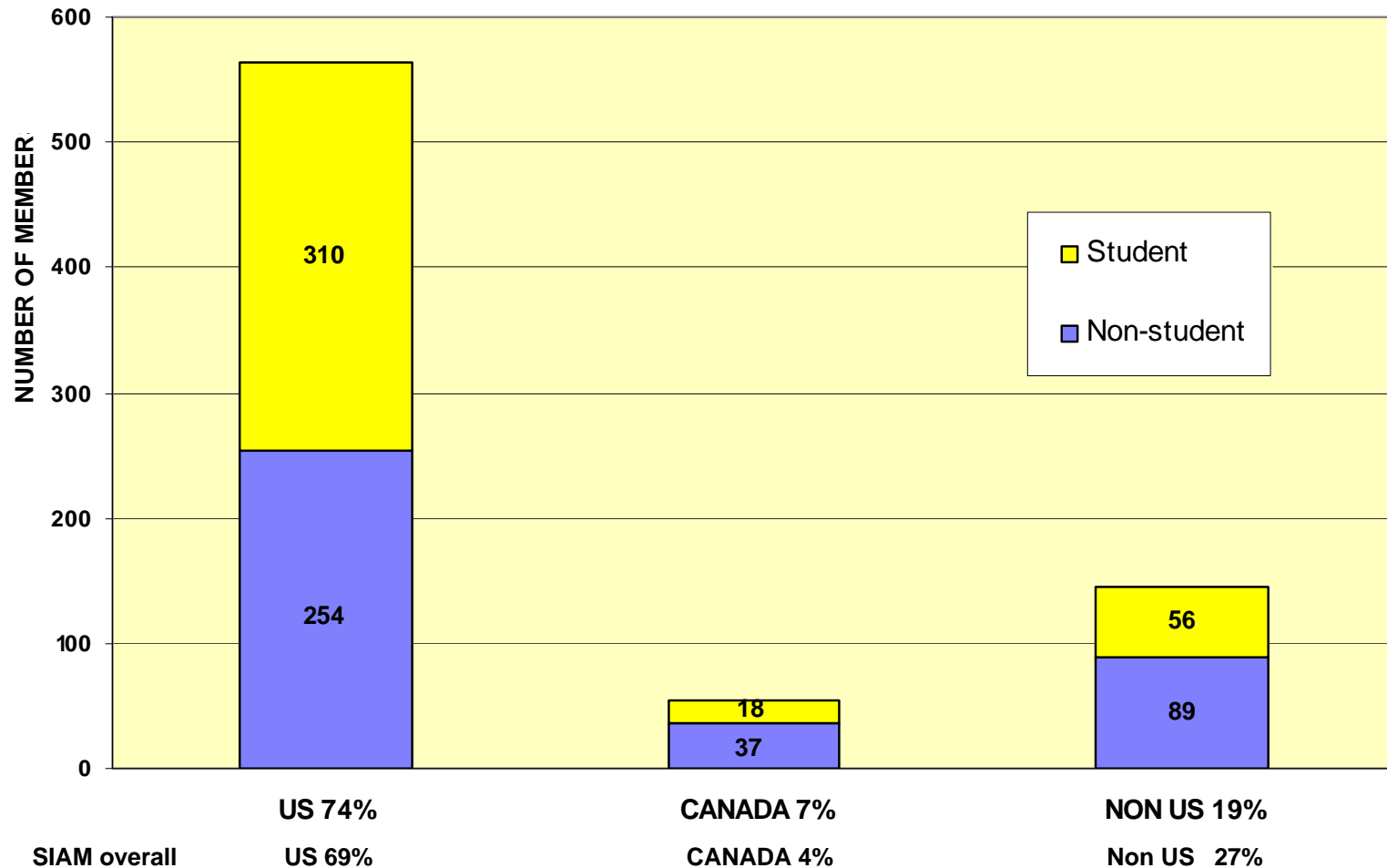
764 as of 12/31/09





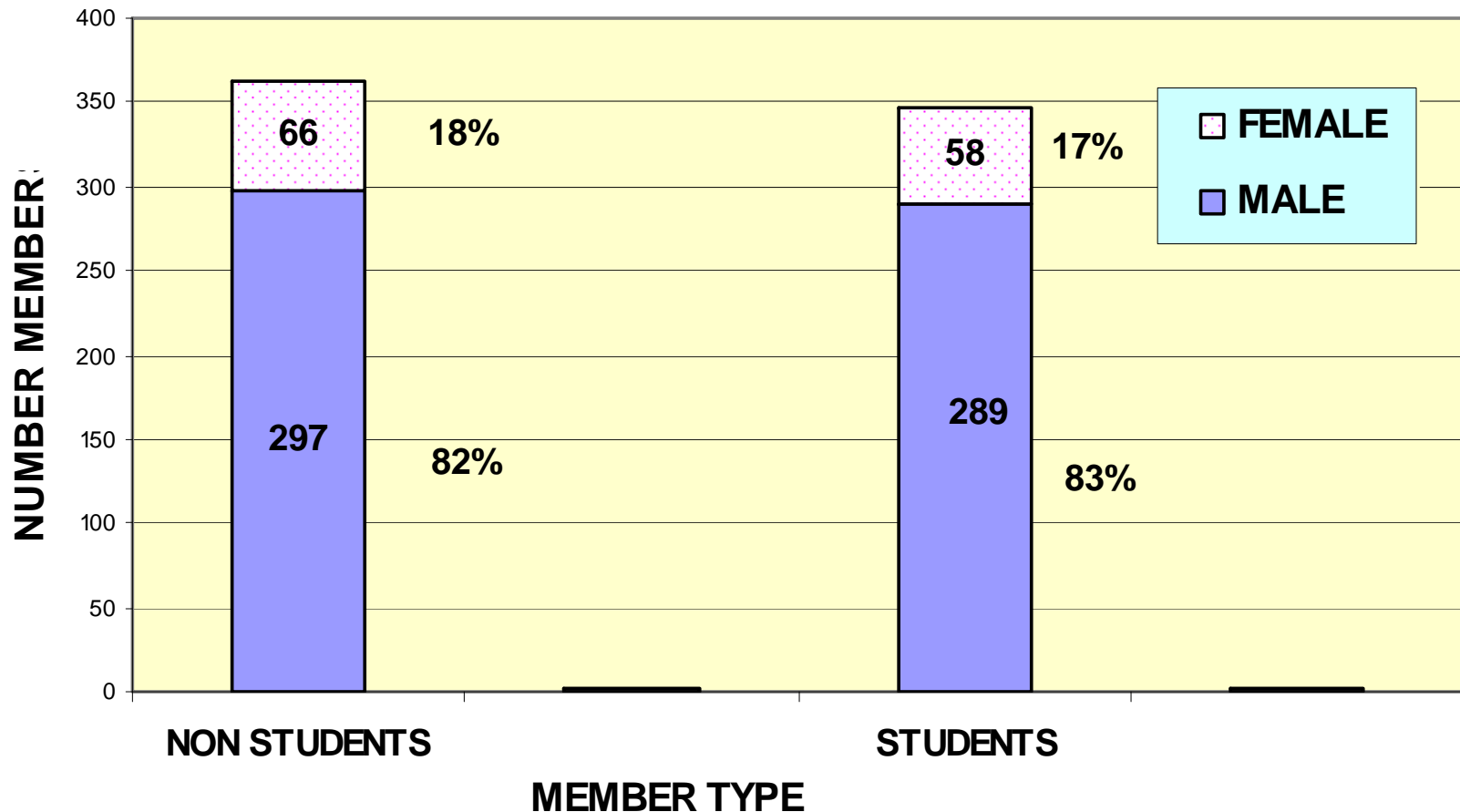
DM MEMBERS BY GEOGRAPHY

74% US, 7% CANADA, 19% NON US/CANADA



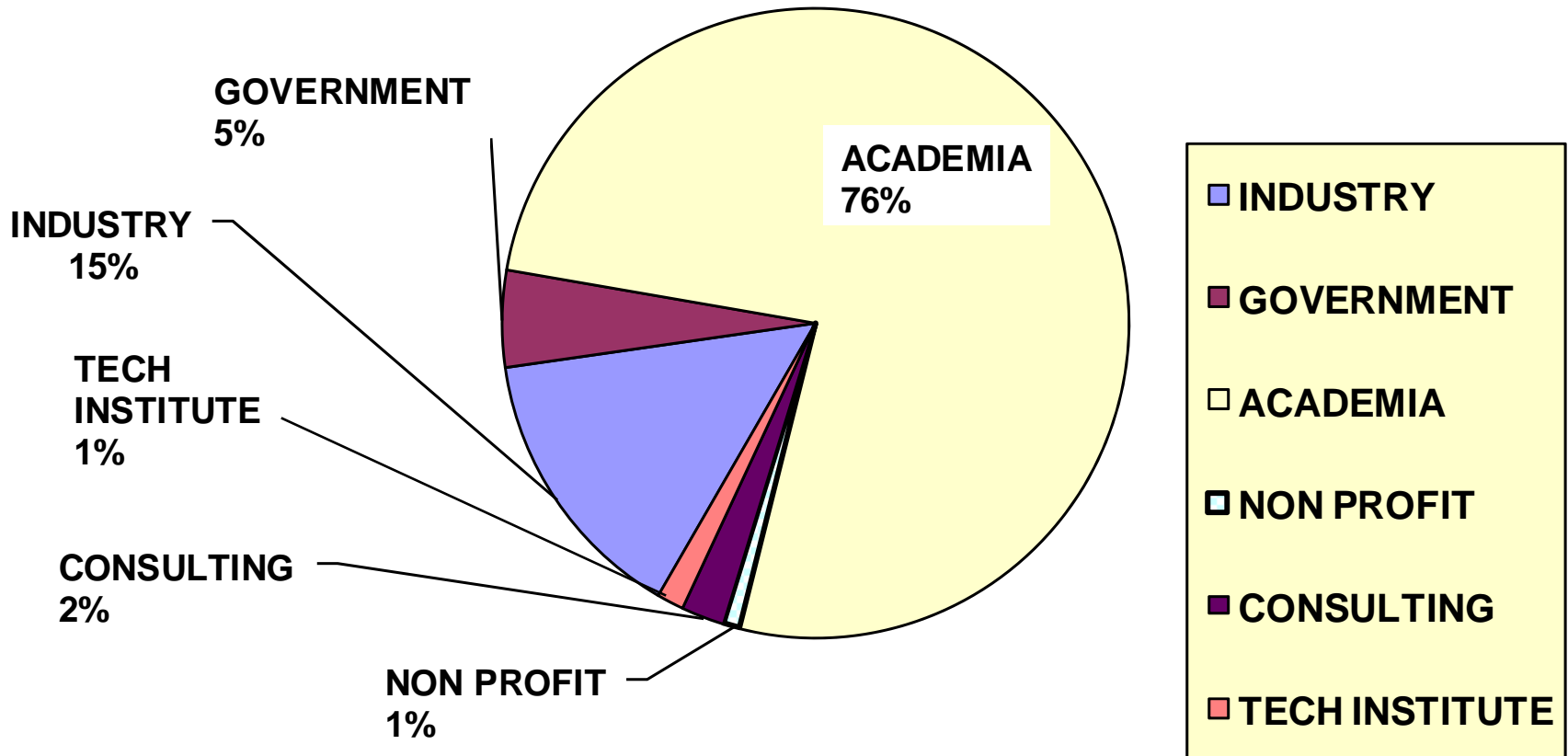
SIAG/DM MEMBERSHIP BY GENDER

MALE 83% FEMALE 17%

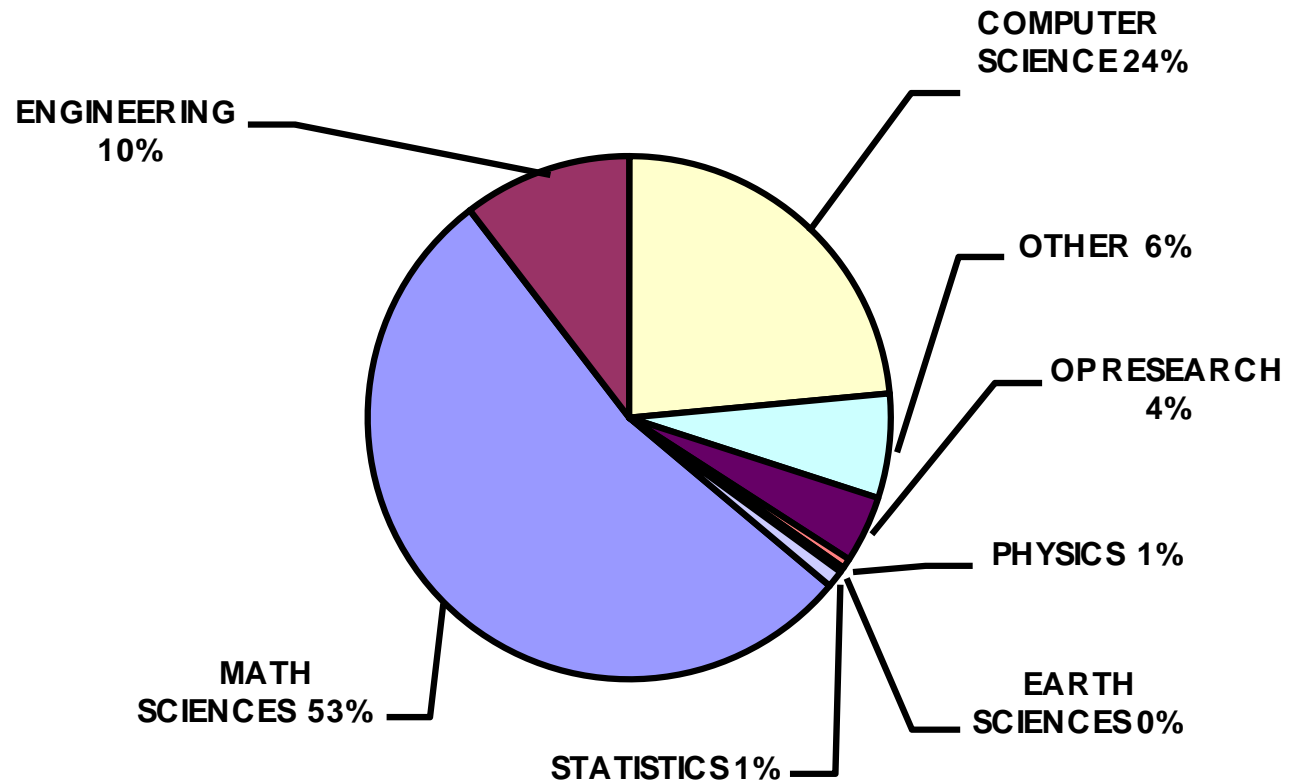


SIAG/DM MEMBERS BY EMPLOYER TYPE

not including students



SIAG DM DEPARTMENTS



Announcements

- Next SIAG/DM election in 2011
- SIAG Charter renewed through 2011
- SIAM Fellows: Let us know if Board can assist with nominating worthy candidates

Announcements

- SIAG/DM website <http://www.siam.org/activity/dm/>
Send suggestions to *John Schmitt*
- SIAG/DM electronic mail list
Ryan Martin siam-dm@siam.org
Archived at
<http://orion.math.iastate.edu/rymartin/dm-net/dm-net.html>
- *SIAM News*: Liaison needed; send us story ideas

SIAG/DM Conference Activity

- DM Sessions at **SIAM Annual Meeting**
July 12-16, 2010
Pittsburgh
- DM Sessions at **ICIAM**
July 18-22, 2011
Vancouver, British Columbia, Canada

SIAG/DM Conference Activity

- **SODA**

(Symposium on Discrete Algorithms)
run jointly annually with ACM-
SIGACT

SIAG/DM Conference Activity

- **SIAM Conference on Discrete Math
DM10**

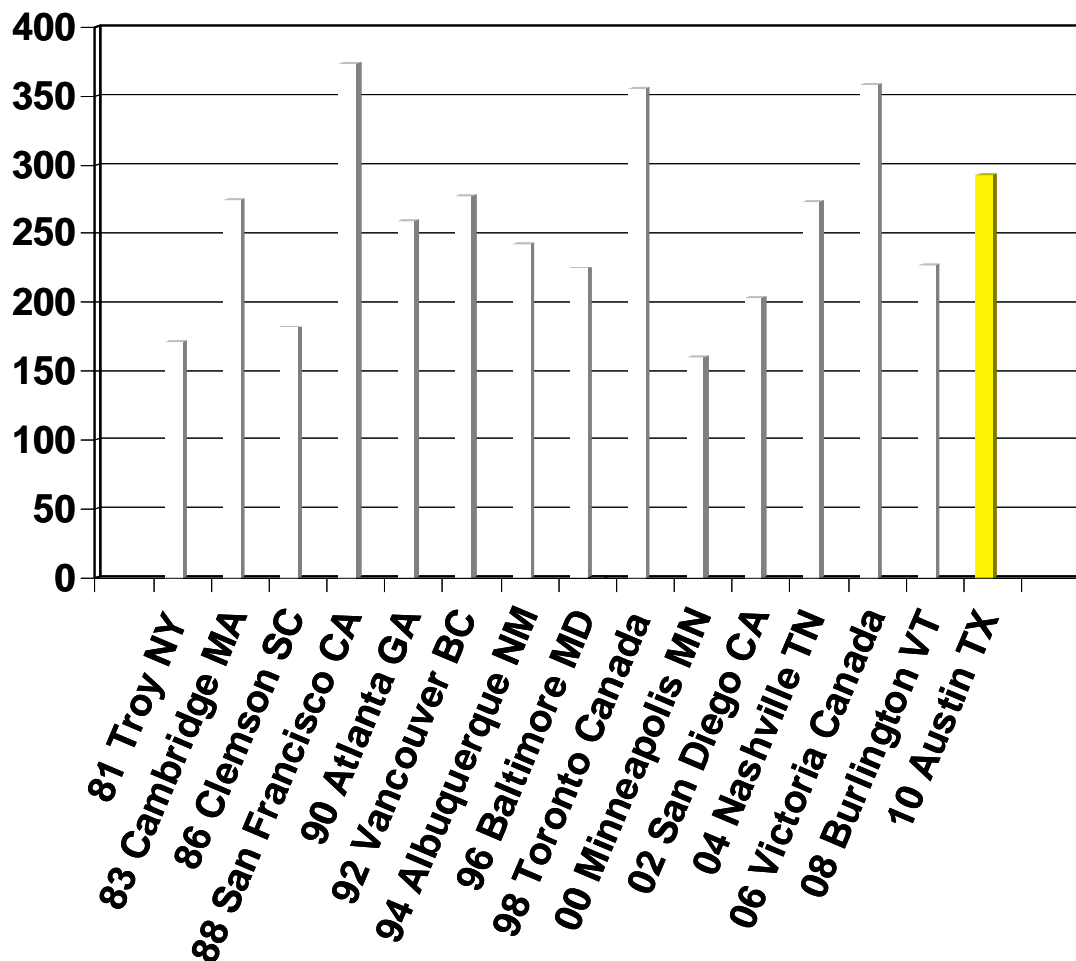
June 14-17, 2010 Austin, TX

Michael Molloy

Chair, Organizing Committee

DM CONFERENCE HISTORY

Number of
Conference Attendees



2010 includes
pre-registration
figures only

NEXT CONFERENCE: DM12

- Location
- Timing
- Program committee



City overview

Missoula, Montana
University of Montana
Possible DM12
Conference Site



University of Montana

Local organizers:

----*Mark Kayll and Jenny McNulty*

U of MT on beautiful site

Continuing Ed. Facility suitable

Low cost dorms; hotel nearby

Green Campus: *Rental bikes, and
Biobus Airport Transportation*

Mild in June (can be hot in July)



Downtown Missoula



The waterfront from
across the harbor

Halifax, Nova Scotia

Dalhousie University
Possible DM12
Conference Site



Public Garden



Dalhousie University

Local organizers: *Jeannette Janssen & Richard Nowakowski*
Beautiful historical city and province
Restaurants, hotels in easy walking distance
Dalhousie conference facilities
Dorms and variety of hotels
Mild climate



Lighthouse at Peggy's Cove

Larger Cities

Possible DM12
Conference Site

Montréal

Chicago

Philadelphia

Portland, OR

Denver

Los Angeles

DM12: Timing

- Mid-June, 2012
- Another Time?

DM12: Program

Send us ideas for:

- Organizing
Committee Chair?
- Conference Themes?

Dénés König Prize

Stable Funding?

John Schmitt

SIAM Book Publishing in Discrete Mathematics

Mark Ellingham

Motivation and overview

- Initial motivation: SIAM rejected a graph theory book proposal as not applied enough. Prompted me to look at SIAM's book offerings.
- Found that SIAM does not seem to be serving discrete mathematics community formed by activity group and attendees at SIAM Discrete Math conferences.
- SIAM has been publishing almost no books in discrete mathematics recently (past 5-8 years).

Background: Book series DT (Discrete Math. and Applns.)

- Started out well, eight books during 1999-2001:

[DT01] Evaluation and Optimization of Electoral Systems; P. Grilli di Cortona, C. Manzi, A. Pennisi, F. Ricca & B. Simeone;

1999; MSC 91B12.

[DT02] Topics in Intersection Graph Theory; T. A. McKee and F. R. McMorris;

1999; MSC 05-01.

[DT03] Graph Classes: A Survey; A. Brandstadt, V. B. Le, and J. P. Spinrad;

1999; MSC 05-01.

[DT04] Branching Programs and Binary Decision Diagrams; I. Wegener;

2000; MSC 68Q05.

[DT05] Distributed Computing: A Locality-Sensitive Approach; David Peleg;

2000; MSC 68M14.

[DT06] Combinatorial Data Analysis: Optimization by Dynamic Programming; Lawrence Hubert, Phipps Arabie, and Jacqueline Meulman;

2001; MSC 62H30.

[DT07] Complexity Classifications of Boolean Constraint Satisfaction Problems; Nadia Creignou, Sanjeev Khanna, and Madhu Sudan;

2001; MSC 68Q15.

[DT08] Discrete Mathematics of Neural Networks: Selected Topics; Martin Anthony;

2001; MSC 68Q32.

Background: Book series DT (Discrete Math. and Applns.)

- Dwindled to three books in 2002-2005:

[DT09] The Vehicle Routing Problem;
Paolo Toth and Daniele Vigo;
2002; MSC 90C35.

[DT10] Discrete Convex Analysis;
Kazuo Murota;
2003; MSC 90-02.

[DT11] Algebraic Theory of Automata
Networks; Pal Domosi and
Chrystopher L. Nehaniv;
2005; MSC 68-02.

No books after 2005,
as SIAM phases out
the series

Other SIAM book series

- Only a couple of books on discrete mathematics (broadly interpreted) in other SIAM book series:
- MP = "MPS/SIAM Series on Optimization"

[MP04] The Sharpest Cut: The Impact of Manfred Padberg and His Work; Martin Grotschel, Editor;
2004; MSC 90-06.
- OT = "Other Titles in Applied Mathematics" (now what SIAM uses mostly)

[OT106] Assignment Problems; Rainer Burkard, Mauro Dell'Amico, and Silvano Martello;
2009; MSC 90-02.

What areas of “discrete math.” does SIAM publish in?

- MSC codes/counts for above books:

05 = combinatorics	2
62 = statistics	1
68 = computer science	5
90 = operations research	5 (3 DT, 1 MP, 1 OT)
- So, most SIAM books in discrete mathematics are from computer science and operations research (MSC codes 68, 90).
- My impression is that the DM community would be interested in more books in combinatorics (MSC code 05).
- SIAM should not interpret "applied mathematics" too narrowly in our area.

What can we do?

- Mark has emailed SIAM's Vice President for Publications, Susanne Brenner. She is investigating, and discussing with SIAM book publications staff and with the Activity Group board.
- The Activity Group should lobby for DM representation on the publication board, or else the publication board should work with the book liaison appointed by the SIAG/DM chair. The book liaison could, for instance, suggest reviewers for books submitted for consideration.
- The Activity Group should solicit submissions for SIAM books, e.g. through newsletter announcements.
- In choosing books to publish, SIAM should not apply too narrow a definition of “applied mathematics”. It is important to choose books that will be of interest to the actual SIAM discrete mathematics community.



SIAG/DM FUTURE PLANS

- Possible Other Activities?

SIAG/DM Contacts



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