

**Minutes of the 121st Meeting of the Council
of the
Conference Board of the Mathematical Sciences
Alexandria, VA
May 3, 2019**

The following were present for all or part of the meeting, held at the ASA Headquarters.

Executive Committee: Diane Briars, Chair, William (Brit) Kirwan, Past-Chair; Charles Steinhorn, Secretary-Treasurer; Christine Thomas, Member-at-Large; Deanna Haunsperger, Member-at-Large

Council Members: James Ham, AMATYC; Jill Pipher, AMS; Mike Steele, AMTE; Ron Wasserstein (for Karen Kafadar), ASA; Charles Steinhorn, ASL (for Julie Knight); Dewey Gottlieb, ASSM; Ruth Haas, AWM; Jessica Utts, IMS (for Xiao-Li Meng); Taryn Lewis, INFORMS; Michael Dorff, MAA; Edray Goins, NAM; Mona Toncheff, NCSM; Robert Berry, NCTM; Lisa Fauci, SIAM; Jerry Brown, SOA; Nora Ramirez, TODOS.

Additional society representatives: Anne Dudley, AMATYC; Catherine Roberts and Karen Saxe, AMS; Timothy Hendrix, AMTE; Melissa Moore, INFORMS; Michael Pearson and Rachel Levy, MAA; Leona Harris, NAM; Connie Schrock, NCSM; Ken Krehbiel, NCTM; Eli Donkar, SOA

Invited Guests: Ted Coe, ACHIEVE; Karen King and Juan Meza, NSF; Kathie Bailey, Heidi Schweingruber, Michelle Schwalbe, and Amy Stephens, NAS; Kim Gattis, AIR; Katherine Leverenz, Mathematics Institute of Wisconsin; Michelle Blair, US Dept of Ed; Mark Loveland and Shandy Hauk, WestEd; Hyman Bass, University of Michigan; Judit Moschkovich, UCSC; Billy Williams, American Geophysical Union; Rebecca Nugent, Carnegie Mellon; Andrea Danyluk, ACM; Dan Heck, Horizon Research; C. David Levermore, University of Maryland.

Staff: David Bressoud, Kelly Chapman

Reports from the presenters are available at <https://www.cbmsweb.org/2017/12/cbms-council-meeting-december-7-2018/>

I. Opening Remarks

Chair Diane Briars welcomed those who were present and outlined the agenda.

II. Business Meeting

1. **Secretary-Treasurer Report.** The minutes of the December 2018 CBMS Council meeting were approved unanimously. Charlie Steinhorn presented the FY 2019 half year financial report. The FY 2020 budget was approved.
2. **Director's Report.** David Bressoud reported on the status of the CBMS/NSF Summer Research Conferences. Six conferences are scheduled for this summer. Summer 2019 is the last time that speakers can receive an honorarium for producing a monograph from the lectures. CBMS is currently preparing for the 2020 departmental survey. He also reported on preparation for the Pathways Forum. In addition, Officers and Directors insurance has been added since the last meeting.
3. **MAA/CBMS Statement to House Education Committee.** A draft of this statement was included as appendix D.
4. **Election of new officers.** Diane Briars, Brit Kirwan, and Francis Su served as the nominating committee. Their nominees were Dave Levermore who was unanimously elected as Chair-Elect and Edray Goins who was unanimously elected as Member-at-Large.
5. **Announcements.**
 - Rachel Levy reported on the MSRI Critical Issues in Mathematical Education Conferences.
 - Karen Saxe reported briefly on what is happening in Washington with regard to issues of concern to the mathematical community, including the effect on NSF of the government shut-down, the appointment of Kelvin Droegemeier as Director of OSTP, and the immigration and visa threats. She also discussed the implications of the President's budget proposal.
 - Brit Kirwan talked about the current efforts of TPSE (Transforming Post-Secondary Education in Mathematics).

III. Reports and Discussion

1. Hy Bass and Judit Moschkovich discussed the recent NAS report on English Language Learners. Two of the strongest points made in the report are that we cannot wait until students are comfortable with English before teaching them mathematics and that it is a mistake to believe that initial emphasis should be on familiarizing these students with formal mathematical terminology
2. Billy Williams, VP for Ethics at the American Geophysical Union reported on the NAS report on Sexual Harassment. He talked about how common it is and how damaging are the forms of harassment that are less overt such as unwanted sexual discussions, sexual insults, and offensive language. He laid out actions that societies can undertake such as policy statements, workshops on bystander interventions, an annual ethics summary, and a process for professional conduct self-disclosure.

This was followed up later in the meeting with a discussion of the Education Council's *Societies' Consortium to Address Sexual Harassment in STEMM*. Michael Pearson spoke of the significant legal work done by this organization. It was the sense of the participants that there was no need for CBMS to duplicate this work. It was decided that those CBMS societies that are members of this consortium should share what they are learning with the other member societies

3. Dan Heck of Horizon Research introduced the recently released NSSME+ Report.
4. Shandy Hauk and Mark Loveland of WestEd reported on the latest iteration of the new Assessment Framework for the National Assessment of Educational Progress in Mathematics.
5. Andrea Danyluk and Rebecca Nugent talked about ACM efforts on building a data science program and the NAS report on Data Science in the Undergraduate Curriculum. An important take-away is that data science is intensely interdisciplinary, drawing on statistics, computer science, mathematics, and business. The NAS report describes what needs to be in a data science curriculum and describes sample courses and the pieces that can be included in other courses. It also makes the point that there are many possible routes through a data science curriculum that emphasize different competencies.
6. Diane Briars talked about concerns with the reviews of educational materials conducted by Ed Reports. She and Valerie Mills have put together a draft of a response to Ed Reports. She asked the CBMS society leaders to consider the draft.
7. There was a discussion of dealing with declining membership numbers and how institutional memberships should be counted in the dues calculation. No conclusions were reached.