

Colleagues,

Below find the minutes from the Education section at the AAAS Annual Meeting in San Jose. Attached is the draft strategic vision mentioned in the minutes.

It was a great section meeting with lots of ideas about how each of you as members of the section can participate in STEM education efforts. In addition, we hope you can attend next year's meeting, which will be in Washington DC.

One other note: AAAS has a new website called Trellis (<http://www.trelliscience.com>) - "Trellis is an exciting, new, digital communication and collaboration platform from the American Association for the Advancement of Science (AAAS)." If you would like to join the Education Section on Trellis, drop me a note and I'll send you an invitation.

Sincerely,

Judy Dilts, Secretary, Section Q
(diltsja@jmu.edu)

Minutes

Section Q, Education, Business Meeting

7:00 – 9:30 PM, Feb. 13, 2015

Gold Room, Fairmont Hotel

7:00-7:30 PM

Reception to celebrate the newly appointed AAAS Education Fellows

7:30-9:30 PM

AAAS Education Section Business Meeting

7:30-7:45 PM Welcome and Introduction (Cathy Manduca, Chair)

1. Cathy Manduca reported that in the morning Section Officers meeting AAAS announced the new website Trellis that is intended to advance the work of AAAS in its move to become more member centered (<http://www.trelliscience.com>).

The section members voted to accept the International Technology Education Association (ITEA) as an affiliate organization for Section Q should it be approved as an affiliate to AAAS during the Council meeting.

2. The minutes of the 2014 Business Meeting were approved as submitted. (Judy Dilts, Secretary)
3. Election Results (Judy Dilts, Secretary) Terms begin Feb. 17, 2015.
Chair Elect: Cathy Middlecamp, Univ. of Wisconsin-Madison

Member-at-Large: Tammy M. Long, Michigan State Univ.
Electorate Nominating Committee: Claire A. Hemingway, National Science Foundation; M. Patricia Morse, Northeastern Univ.

4. 2014 Elected Fellows (Judy Dilts, Secretary)

Cynthia Margaret Bauerle, *Howard Hughes Medical Institute*: For distinguished contributions as a leader at both the campus and national levels in improving undergraduate science education, especially in the biological sciences.

Bianca L. Bernstein, *Arizona State University*: For distinguished contributions to the field of counseling psychology to further opportunities for girls and women.

Elizabeth S. Boylan, *Alfred P. Sloan Foundation*: For distinguished contributions to the improvement of undergraduate STEM education through enlightened leadership in higher education administration and foundation grantmaking.

Elaine A. Johnson, *Bio-Link, City College of San Francisco*: For distinguished and exemplary service to the field of education, particularly workforce development, instructor training, and STEM opportunities in biotechnology.

David E. Lopatto, *Grinnell College*: For comprehensive and practical assessment of undergraduate science research experiences, including student learning outcomes, career choices, and attitudes across a range of institutional settings.

Patricia A. Marsteller, *Emory University*: For distinguished contributions to the improvement of biology education, biology education research, and educational access for all students at the institutional and national levels.

David Hillyer Voorhees, *Waubensee Community College*: For a leading role in creating a national organization for geoscience faculty at two-year colleges and contributions to improving teaching and learning at two year colleges.

Daniel A. Wubah, *Washington and Lee University*: For outstanding contributions and leadership in improving undergraduate science education, undergraduate research, international education, and inclusion and diversity.

7:45-8:15 PM Bruce Alberts (editor-in-chief, *SCIENCE*, 2008-2013) spoke to the section members. He noted that the national initiatives in K-12 will not have an effect on what happens in our schools until there is a massive mobilization of scientists to help educators – it is a huge challenge to do more than we have done to date. Alberts suggested one course of action would be to mobilize disciplinary societies to help in this effort and involve past presidents of those organizations to help effect change in their states, with AAAS as the organizer of these efforts. He thinks the biggest issue is changing how science is taught at both the K-12 AND undergraduate levels. Lively discussion followed including comments by Alberts on the importance of thinking big, and of thinking internationally .

Melissa McCartney (*SCIENCE* magazine editorial staff and with AAAS-EHR) asked for feedback from the members – if there were an education forum in *SCIENCE* what should it include and who should write it? She also inquired about the extent of support for ongoing education prizes awarded by *SCIENCE* and the potential foci for those prizes.

She gave the SPORE (Science Prize for Online Resources in Education) and IBI (Inquiry Based Instruction) prizes as examples.

McCartney also informed the section about a new digital, open access journal, *Science Advances* (<http://advances.sciencemag.org>). There is no page limit, it is multidisciplinary, and the editors are interested in having a conversation about publishing Discipline Based Education Research (DBER) and how to judge it. Shirley Malcom and McCartney would like it to be the place that the education community goes for the latest advances in DBER research. During the ensuing discussion a participant raised the point that we need to be more international and that Science Advances would be a great place to have the conversation about how to do so. She asked for volunteers who would be interested in helping develop the submission and review guidelines to contact her (mmcartn@aaas.org).

8:15-8:45 PM Conversation with Shirley Malcom (Head, AAAS EHR) on collaboration with AAAS Education Programs.

McCartney spoke again, in her new EHR role, about the program Science in the Classroom, a collection of annotated research papers and teaching materials for use in high school and undergraduate classrooms. The program, funded by NSF, needs to have more teachers involved – McCartney encouraged us to alert undergraduate pre-service teachers. She is also seeking researchers with data suitable for classroom instruction who are willing to write tutorials about their data. You can learn more about opportunities for involvement on Trellis.

Malcom reminded us of Science Books and Films, a critical review journal (from the website: “Published by the American Association for the Advancement of Science (AAAS), SB&F is an online global critical review journal devoted exclusively to print and nonprint materials in all of the sciences for all age groups (K-college, teaching and general audience). Since 1965, SB&F has been the authoritative guide to science resources, bringing librarians and other educators expert information they need to make the best decisions when choosing science materials for their libraries, classrooms, or institutions.”) Reviewers are needed for this journal.

Malcom then led a general discussion about the broader activities of EHR – e.g., workforce analysis of OMB; convening societies to keep up with nation activity; connections with liaison organizations; individual development plans for undergraduates and high school teachers; NGSS implementation.

8:45-9:00 PM Introduction and discussion of strategic vision for Section Q (Jay Labov, Chair-Elect)

Labov introduced a draft of the strategic vision (attached) that the officers wrote and for which they received input from past chairs.

Participants at the meeting were asked for feedback by e-mail (JLabov@nas.edu) by March 1, 2015, at which time a revised version would be created including new comments as well as the discussion at the meeting. This new draft would be distributed

to the section for additional input. Intent is to do more with the section than have in past in addition to work with EHR and other parts of AAAS.

A lively discussion followed the presentations. Manduca summarized the overall discussion as follows:

We identified a wide range of topics that are central to improving STEM education going beyond or strengthening those in the current draft:

- working on education as an international issue
- ensuring all learners are welcomed and supported to succeed in STEM including members of underrepresented groups, the disabled, and veterans
- supporting implementation of the strong vision in NGSS
- attending to issues of graduate and post doctoral education
- strengthening online teaching and learning and understanding its role in education
- understanding and addressing the needs of adjunct faculty

In working through AAAS to strengthen STEM education in service to society we have several assets and opportunities. We discussed

- the membership of the section including those who attend the meeting creates a robust network that can connect much of the work that is underway. This network includes activities focused on both formal and informal education, on k-12, undergraduate and graduate education, and across the STEM fields. A particular asset is the liaisons to affiliated societies. This network can be used to build cohesion between efforts, to share information on successes and failures across the community, and to disseminate materials, information and resources.
- Section Q is among those that can build connections among sections within AAAS strengthening our interdisciplinary approach to science and to its impact on society
- the membership of the section can support the AAAS education programs in productive ways: assisting with DBER review criteria for Science Advances, advocating for continuation of the SCIENCE prizes, engaging our communities and colleagues in Science in the Classroom are three ways we can make immediate progress
- continuing to strengthen the annual meeting program with multiyear themes, sessions that bridge divisions, international sessions, new virtual mechanisms for generating and discussing symposia proposals.
- working with AAAS to advocate for Science and STEM education
- understanding and organizing the resources that are available to us in this work

9:00-9:30 PM Discussion of symposia for the 2016 Annual Meeting (Jay Labov, Chair-Elect) -- The 2016 AAAS Annual Meeting theme is “Global Science Engagement.” Labov went over how symposia are chosen, shared symposia ideas that had been submitted prior to the business meeting, and entertained other ideas. He is to be contacted with other possible symposia (JLabov@nas.edu) and will, along with other officers, offer suggestions for improvement.

9:30 PM Adjourn

Nominating process for section officers, committees, and Council Delegate

This work is done in the spring after the Annual Meeting. *Should you wish to serve or wish to nominate someone, send the information to Cathy Manduca (cmanduca@carleton.edu) by the end of February 2015.*

From the AAAS Section Governance Manual:

Each Electorate has an Electorate Nominating Committee (ENC) consisting of six elected members who serve three-year, nonconsecutive terms. The Retiring Chair of the corresponding Section serves as an ex officio member and as chair of the Committee. The Committee annually selects slates of candidates for the following positions:

- (a) Section Chair-Elect, [the Chair-Elect will become Chair and then Retiring Chair over a 3 year period]
- (b) Member-at-Large of the Section Committee, [part of section Steering Group; 4-year terms], and
- (c) Members of the Electorate Nominating Committee [3-year terms].

Every third year the Committee also selects a slate of candidates for the position(s) of Council Delegate(s) of the Electorate [3-year terms; member of the Council and the Section Committee].

Nominations for AAAS Fellows

This work is done by the Steering Group of each Section immediately following the Annual Meeting. Nominations are put forward to AAAS by the Steering Group and 3-Fellow nominations may also be made. Should you wish for the Steering Group to consider someone for nomination for AAAS Fellow, please send her/his name, CV, and brief rationale for why the individual should be a AAAS Fellow to Judy Dilts (diltsja@jmu.edu) by the end of February. See <http://www.aaas.org/general-process> for more information on the criteria and process.

AAAS Member Central

AAAS Member Central -- <http://membercentral.aaas.org/membershiphome>

For conversations within a section go to: <http://membercentral.aaas.org/sections>