Update from the Chair

As we gear up for the JSM in Chicago, I'm writing to update you on activities of the section and the wider statistical education community as well as to thank you for your membership in the section. The Stat Ed section works to promote the teaching and learning of statistics at all levels and for multiple audiences.

This year the section is represented by new officers Secretary/Treasurer Ann Cannon, Executive Committee members Ulrike Genschel and Brenda Gunderson, Chair Elect Paul Roback, and Program Chair Dalene Stangl.

So far this year we have developed talking points about the section to encourage new members, created a Fellows committee to spur additional nominations of worthy section members, helped to assist with outreach by updating the GAISE (Guidelines for Assessment and Instruction in Statistics Education) College Report, and provided outreach for additional course reports for the MAA CUPM website. The revised charter was also approved by the membership.

Moving forward, there are many upcoming opportunities to keep in mind. At the JSM 2016 in Chicago we have an excellent slate of invited and topic contributed sessions (kudos to Pat Humphrey, see related article) and roundtables (thanks to Dalene Stangl, see related article). It's not too early to start thinking about invited and topic contributed session proposals for JSM 2017 in Baltimore.

Please mark your calendar for the section business meeting and mixer on Wednesday, August 3rd from 6:00-7:30pm in the Hilton Williford Room A. The business meeting and mixer is open to all section members and we hope that you can join us.

Your membership in the section and the association helps to support these initiatives. If you have suggestions for other activities or agenda items for the business meeting, I would appreciate hearing them. I look forward to seeing many of you in Chicago.

Warmly,

Nick Horton
Chair, ASA Section on Statistical Education
**eCOTS 2016**
Kari Lock Morgan

The third biennial Electronic Conference on Teaching Statistics (eCOTS), hosted by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), took place online May 16-20th, 2016. The theme of eCOTS 2016 was “Changing with Technology,” and topics included teaching a flipped or blended course, teaching simulation-based inference, teaching with R/RStudio, teaching with technology: free and simple, teaching data science, and more! The online conference had a fantastic program, including keynote addresses by Andrew Gelman and Michael Jordan, 3 workshops disseminating NSF funded projects, 5 panel discussions, 18 breakout sessions, 8 birds-of-a-feather small group discussions, and 34 virtual posters (short videos). All of this conference material was recorded, and is now publicly available for viewing. The conference also included for the first time eight regional face-to-face mini-conferences happening at different locations around the country, designed to foster regional statistics education communities and to leverage and integrate with the online programming. eCOTS 2016 was a success, with nearly 600 registrants.

eCOTS occurs in May of even years, alternating with its face-to-face sister conference, USCOTS, in May of odd years. Like eCOTS, USCOTS (the United States Conference on Teaching Statistics) focuses on undergraduate statistics education and is hosted by CAUSE. Save the date now for USCOTS 2017, at the Penn Stater in State College, PA, May 18-20th, 2017, with the theme “Show Me the Data!”.

**2016 GAISE College Report**
Megan Mocko and Michelle Everson

A committee of 11 members has been working over the past two years to update the 2005 GAISE College Report. The revised GAISE report reflects changes that have occurred in our classrooms and discipline in the past 10 years. We have taken into account statistical education literature and feedback received from the Stat Ed community on multiple occasions. Although the report continues to endorse the same recommendations (with slight changing in wording for clarity or brevity), two new emphases have been added to the report. These new emphases are “Teach statistics as an investigative process of problem-solving and decision-making” and “Give students experience with multivariable thinking.” Additionally, the core document is similar in length, but the number of appendices has been expanded to include more examples and supplemental information.

The new report will go before the ASA Board for endorsement during the first part of JSM 2016 in Chicago

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To view eCOTS material
[www.causeweb.org/cause/ecots/ecots16/program](http://www.causeweb.org/cause/ecots/ecots16/program)

2016 GAISE College Report Draft:

2016 GAISE Webinar:
Sign Up for JSM 2016 Round Tables

A.M.
Monday:
  How to Integrate Open-Access and Open-Source Educational Materials - Andrew Bray, Mine Cetinkaya-Rundel
Wednesday:
  Teaching Bayesian Statistics to Undergraduates - Jeffrey Witmer

P.M.
Monday:
  Specifications Grading in a Statistics Course - Eric Reyes
  LISA 2020: Educating Statistical Collaborators - James Rosenberger
  Incorporating Visual Literacy Standards in an Introductory Statistics Course - Jill Young
  Teaching Statistical Collaboration - Eric Vance
Tuesday:
  Making a Powerful First-Day Impression - André Michelle Lubecke
  Introductory Statistics in Two-Year and Four-Year Colleges: More Similar (and More Different) Than Many People Realize - Brian Kotz
  Do We Need a Journal for Undergraduate Statistical Research? - Katherine St. Clair, Carleton, Miles Ott
  Practical Considerations for Teaching Statistics in a Hybrid, Flipped, or Online Format - Jane Monaco, Todd Schwartz
Wednesday:
  Modern Teaching Methods for Graduate Statistics Courses - Jana Anderson
  Training Statisticians to Be Effective Instructors - Jennifer Kaplan
  Community Engagement in the Classroom and as a Conduit to Published Research - Amy Phelps
  Creating a Course on Statistical Learning - Sam Behseta

New Section Officers for 2017

Chair Elect, 2017:
  Beth Chance, Cal Poly San Luis Obispo

Council of Section Representative, 2017-2019:
  Erin Blankenship, University of Nebraska

Publications Officer, 2017-2019:
  Ellen Kay Endriss, Career Center High School

Executive Committee at Large, 2017-2019:
  Garrett Grolemund, RStudio, Inc.
  Rebecca Nugent, Carnegie Mellon University

Nominations being accepted for 2018 Officers
Chair (Chair-elect in 2018, Chair in 2019, and Past-Chair in 2020)
At-large Executive Committee members (3 years terms: 2018-2020)
Council of Sections representative (3 year term: 2018-2020)

Contact Paul Roback (roback@stolaf.edu) with nominations.

Section Nomination Committee for ASA Fellows
Submit nominations for potential ASA Fellows to Bill Notz at win@stat.osu.edu. If you nominate someone, we will assume you are willing to help with the nomination process.

Information about ASA Fellows can be found at http://www.amstat.org/awards/fellows.cfm.
JSM 2016 Section Invited Program

Monday, August 1, 2 - 3:50 pm, CC-W183a:
Panel: Teaching a Large Introductory Statistics Course
- Megan Mocko, University of Florida
- Stacey Hancock, University of California at Irvine
- Christopher Wild, University of Auckland
- Brenda Gunderson, University of Michigan

Tuesday, August 2, 10:30 - 12:20, CC-W184bc:
Doing more with data in and outside the undergraduate classroom
- Computational Thinking and Statistical Thinking: Foundations of Data Science — Ani Adhikari, University of California at Berkeley; Michael I. Jordan, University of California at Berkeley
- Statistical Computing as an Introduction to Data Science — Colin Rundel, Duke University
- The ASA DataFest: Learning by Doing — Robert Gould, University of California at Los Angeles
- Learning Communities: An Emerging Platform for Research in Statistics — Mark Daniel Ward, Purdue University

Tuesday, August 2, 10:30 am - 12:20 pm, CC-W190a:
Panel: Harnessing the Extraordinary Power of Statistics in Sports
- Luke Bornn, Simon Fraser University
- Ben Baumer, Smith College
- Dennis Lock, Miami Dolphins
- Brian Macdonald, Florida Panthers

Tuesday, August 2, 2 - 5:30 pm, CC-W176a
Journal Clubs as a Teaching Venue for Health Sciences Students
- Formal Programs Teaching Critical Appraisal in Evidence-Based Medicine — Stephen David Simon, University of Missouri - Kansas City
- Transdisciplinary Fellowship Level Journal Club — Judy-Anne W. Chapman, National Cancer Institute (Retired)
- Using a Journal Club to Review and Reinforce Concepts for Medical Researchers — Brian Healy, Massachusetts General Hospital; Amy Shui, Massachusetts General Hospital
- Journalism in a Journal Club: The Art of Writing About Science — Nancy Pfenning, University of Pittsburgh
- The Professional Melting Pot: Statisticians, Data Scientists, and Health Researchers Talk Shop to Improve Public Well-Being — Nicholas Beyler, Mathematica Policy Research; Fei Xing, Mathematica Policy Research

Wednesday, August 3, 10:30 am - 12:20 pm, CC-W190a:
Panel: Data Science Education
- Constantine Gatsonis, Brown University
- Alfred Hero, University of Michigan
- John Lafferty, The University of Chicago
- Raghu Ramakrishnan, Microsoft

Thursday, August 4, 10:30 - 12:30, CC-W192c:
Strategies for Developing Undergraduate Data Science Programs
- Teaching Data Science Skills in an Introductory CS Course — Olaf Hall-Holt, St. Olaf College
- Cross-Disciplinary Minor in Data Science: A New Paradigm for Partnership Across Disciplines — Andrew Schaffner, Cal Poly; Alexander Dekhtyar, Cal Poly
- From the Sun Setting of a Statistics Major to the Implementation of a Business Analytics Major — Scott Toney, University of Denver
- Developing a Comprehensive Data Science Program — Mark John Lancaster, Northern Kentucky University
JSM 2016 Section Topic Contributed Sessions

Sunday, July 31 2:00 – 3:50 pm, CC-W176c
Panel: Distinguishing between Statistics Education for Undergraduate and Graduate Non-Statistics Major Students

Monday, August 1, 10:30 am – 12:20 pm, CC-W194b
Biostatistical Literacy: How Best to Teach Medical and Public Health Professionals What They Need to Know About Statistics

Monday, August 1, 2:00 – 3:50 pm, CC-W182
Panel: Awareness and Quality Improvements for the Joint ASA/NCTM Poster Competition

Monday, August 1, 2:00 – 3:50 pm, CC-W176c
Panel: Professional Opportunities at Smaller Colleges and Universities

Tuesday, August 2, 2:00 – 3:50 pm, CC-W176b
Assessing Effectiveness of Teaching Statistics with Simulation-Based Inference

Wednesday, August 3, 8:30 – 10:20 am, CC-W192b
Panel: Evaluating Some Popular Introductory Applied Statistics Textbooks: What We Like About Them and What We Would Like Them to Do Differently

Wednesday, August 3, 8:30 – 10:20 am, CC-W192c
Panel: The Challenge of Keeping Introductory Biostatistics Interesting and Fun

JSM 2016 Contributed Sessions

Sunday, July 31 4:00 – 5:50 pm, CC-W185a
Alternative Classroom Strategies: Flipped, Blended, and Others

Sunday, July 31 4:00 – 5:50 pm, CC-W184d
For the Love of the Game: Applications of Statistics in Sports

Monday, August 1, 8:30 – 10:20 am, CC-W178b
Advancing Statistical Literacy

Monday, August 1, 10:30 am – 12:20 pm, CC-W181b
SPEED: Statistics for Education and Social Sciences Research
  • 2:00 – 2:45 Speed Posters, part I, CC-Hall F1 West
  • 3:05 – 3:50 Speed Posters, part II, CC-Hall F1 West

Monday, August 1, 10:30 am – 12:20 pm, CC-W194a
Students Doing and Communicating about Statistics

Tuesday, August 2, 8:30 – 10:20 am, CC-W175b
Who is a Statistics Educator? Attitudes, Preparation, and Practice

Wednesday, August 3, 10:30 am – 12:20 pm, CC-Hall F1 West
Contributed Posters

Wednesday, August 3, 2:00 – 3:50 pm, CC-W194a
How are we doing? Education Analytics

Thursday, August 4, 8:30 – 10:20 am, CC-W192b
Big Data and Data Science Education

Thursday, August 4, 10:30 am – 12:20 pm, CC-W192a
Useful Classroom Activities

For more details on Topic-Contributed, Contributed, and Section Co-sponsored Events visit the JSM Online Program
http://www.amstat.org/meetings/jsm/2016/onlineprogram/index.cfm

Submit Reviews at JSM
To determine best SPEED poster and to award the Ron Wasserstein Best Contributed Paper