



Engineering Libraries Division Newsletter

September 2016

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Message from the Chair

Craig Beard



Greetings ELD-ers!

As I write this, our library is going through a transition full of challenge and promise. The second floor of our three-floor (plus a basement) building is being repurposed as the home of the university's international students program. The primary challenges for us are relocating the bound periodicals collection off-site and losing a large number of individual and group study spaces (and, of course, dealing with the 8:00–5:00 construction noise just above us). The other side of the coin is that we get to rethink what we do and how we do it in order, we hope, to do it better. I hope you too are enjoying the beginning of an exciting semester.

Conference Recap

Even though ASEE initially allotted us only two technical sessions for the 2016 ASEE Annual Conference, we ended up with a full schedule of worthwhile content. And this is another opportunity to offer my thanks to everyone whose efforts went into making the conference in New Orleans, including Sunday's Unconference, such a success.

As always, a big “thank you” goes out to our sponsors, whose generous support provides travel stipends, meals, and casual networking opportunities. All of these sponsors are highlighted on page 18 of this newsletter. Make sure and take every opportunity to express your appreciation to them for their support.

Working hand-in-hand with our sponsors is the ELD Development Committee: Amy Buhler (Chair), Julie Cook, Mel DeSart, Lisa Dunn, Bob Heyer-Gray, Kari Kozak, Ibrionke Lawal, Stephen Stich, Larry Thompson, and Amy Van Epps. They were in regular contact with sponsors securing support. And as Development Chair, Amy worked with the conference caterer to plan the meals that accompanied several of our sessions.

Another committee that is invaluable in the preparation for the conference is the Publications Committee: Scott Curtis (Chair), Giovanna Badia, Kristin Buxton, Danielle Dennie, Kevin Drees, Samuel Dyal, Sylvia George-Williams, Randall Halverson, David Hubbard, Jon Jeffries, Patricia Kirkwood, Kari Kozak, Jeff McAdams, Ann Morgan, Debbie Morrow, Florence Mugambi, John Napp, Bruce Neville, Nestor Osorio, Daniela Solomon, Jim Van Loon, Jenny Wong-Welch, George Zajdel, and Jennifer Zhao. Their hard work reviewing abstracts and draft papers ensures that the papers presented at the conference reflect the quality scholarship we have come to expect.



ELD is a division of the American Society for Engineering Education. Its mission is “to promote and strengthen the role of the library as an integral part of engineering education.”

Message from the Chair *(Continued...)*

Of course, much thanks goes to the presenters and moderators. Without their contributions, much of the other work leading up to the conference would be unnecessary. You can find the names of all presenters and moderators, as well as the slides that accompanied the presentations, on the 2016 ELD Conference Program (<http://depts.washington.edu/englib/eld/conf/conf2016.php>) on the ELD website.

[If you are interested in presenting a paper at the 2017 ASEE Annual Conference, see the Call for Papers on page 14.]

Last but not least, I want to express my great appreciation to the Program Planning Committee: Amy Buhler, Julie Cook, Scott Curtis, Sylvia George-Williams, Kari Kozak, John Napp, Bruce Neville, Daniela Solomon, and Larry Thompson. I'm most grateful for all their work throughout the year, their wisdom in many aspects of planning, and their encouragement during the frustrating times.

Division Awards

The division's most prestigious award, the Homer I. Bernhardt Distinguished Service Award, was given to Megan Sapp Nelson for her outstanding contributions to the Engineering Libraries Division and to the engineering library profession. In addition, awards were presented for Best Publication (to Qinqin Zhang, Maren Goodman, and Shiyi Xie for their article "Integrating Library Instruction into the Course Management System for a First-Year Engineering Class: An Evidence-Based Study Measuring the Effectiveness of Blended Learning on Students' Information Literacy Levels," *College & Research Libraries*, November 2015) and Best Poster (to Chelsea Leachman and Jacob William Leachman for "Modification of the House of Quality to Assess Information Gaps during Quality Function Deployment of Engineering"). More information on these and previous award recipients can be found here: <http://depts.washington.edu/englib/eld/awards.php>.

ASEE Diversity Committee

Though ASEE's official Year of ACTION on Diversity (2014-2015) is past, ASEE's focus on diversity is not. And there are currently two ways division members may become involved in the ASEE Diversity Committee (ADC). First, divisions may nominate one member to serve as a delegate to the ADC. Delegates provide two-way communication between the division and the committee. Rebecca Orozco of the University of Kansas will serve as this year's EDL delegate. Second, any ASEE member who wants to serve but does not have a position as a delegate may request an invitation to be a Friend of the Diversity Committee. This is an informal position, and Friends may participate in any Diversity Committee initiative throughout the year. If you wish to join the Friends of the Diversity Committee, you can request an invitation from the current ADC Chair, Stephanie Farrell (Farrell@rowan.edu).

Well, that's it for now. If you have any questions or concerns (or even criticisms), please send them to me at cwb@uab.edu.

ELD Extended Executive Committee Meeting

Willie Baer

ELD Extended Executive Committee Meeting
ASEE Annual Conference, Riverside 1
Wednesday, 29 June 2014

Present: Alice Trussell (Awards), Amy Buhler (Development), Amy Van Epps (Electronic Voting), Anne Rauh (Nominating), Bruce Neville (Program Chair), Craig Beard (Division Chair), Dave Hubbard (Accreditation & Standards), Dave Schmidt (Membership), Doug McGee (Recruitment), John Napp (Director), Julie Cook (Director, Webmaster), Julie Arendt (Accreditation & Standards), Kevin Drees (Mentoring), Lee Cummings (Newsletter), Mel DeSart (E-lists), Michael White (Anniversary Celebration), Robyn Rosenberg (Scholarly Communication), Scott Curtis (Publications), Willie Baer (Secretary/Treasurer)

Executive Committee:

Bruce and Willie met with Doug Black (ASEE comptroller) to clarify issues caused by ASEE not sending the quarterly statements. A \$3,000 Bass tax mistake has been corrected.

Discussed whether to order more ELD pins. The last group lasted 10 years. We will be getting a quote for about 200 pins, and will think about having anniversary themed pins.

Committees:

Publications: Nine members have volunteered while others have dropped off. The rule that a member can't review papers if also submitting a paper was discussed. The committee is developing a rubric for authors which will include criteria for authors and guidelines for reviewers.

Development: We've lost some sponsors. New vendors have been identified to approach. Special partners will be approached for the anniversary.

Webmaster: Julie has contacted ASEE about the ELD website being hosted by the society. She is checking into it so that we know what will be involved if the website needs to be passed to someone not from Washington.

Membership: We need to let Bernadette know any new (and dropping) committee members.

Mentoring: The committee has organized a webinar and is considering webinars on professional development issues. Kevin noted that less than a half-dozen used the friendly peer review service. The service should be advertised better.

Listserv: EEC listserv will be updated.

Recruitment Task Force: Discussed what ELD can do to help with recruitment. Ideas include recasting mentoring as professional development, work with library schools, and targeting deans and newly hired engineering librarians.

Awards: This year only one poster was submitted. Possible changes to awards were discussed including setting a threshold below which an award won't be awarded and possibly changing the innovation award. Changes in awards need to be approved by ASEE.

Accreditation & Standards: The committee is looking into matching the new ABET to the framework. It is also looking into changing the survey for ABET.

Anniversary: Michael and his task force is creating a list of possible activities. They are looking at three levels: no cost, low cost, and high cost. Working on program planning photo policy. Anne will draft the language.

Nominating: The nominating committee welcomes any suggestions for nominations.

Planning for Columbus:

We will be using a preconference instead of an unconference. It will be on Systematic Literature Reviews. There should be a cake at the banquet.

ELD Annual Business Meeting

Bruce Neville

The 2016 Business Meeting of the ASEE Engineering Libraries Division took place in the Riverside 1 Room at the Hampton Inn and Suites, New Orleans, Louisiana, on Tuesday 28 June 2016. The meeting was called to order at 8:15 am by Division Chair Anne Rauh.

Minutes of the 2015 Business Meeting were distributed. John Teleha moved and Mel DeSart seconded that the minutes be approved. The motion passed.

Report of the PIC IV Chair, Teri Reed:

Maura Borrego is expecting and not attending this conference, so Teri Reed is stepping in early as PIC Chair. Things are looking better for the Society than a year ago, financially. We expect to operate in the black this year. Award accounts are not earning enough to support awards. [Anne commented that our Bernhardt Award is funded by a sponsor.] Next year is the Year of Action on P-12 Education. Time for comment on ABET changes ends June 30. There are opportunities to comment at this meeting. [ELD has submitted a response to ABET.] The Strategic Doing initiatives will be highlighted at 11:30 today. The Society is looking for input on Strategic Doing. Teri asked for comments from the group. Q: Is there a Strategic Implementation phase? A. Each of the 7 initiatives has received \$5000 to implement its recommendations.

Report of the Division Chair, Anne Rauh:

Committee Chairs: David Hubbard is replacing Julie Arendt as Chair of the Accreditations & Standards Committee. Amy Buhler, David Schmitt, and Scott Curtis have agreed to continue as Chairs of the Development, Membership, and Publications Committees, respectively.

Announcements from the PIC IV meeting: There are 4200 registered for this meeting. Membership in ASEE is steady. Our bylaws amendments are to be voted on at this meeting. As they are expected to pass, we are eligible to have a non-voting delegate to the Diversity Committee. Anne asked for volunteers. There is a town-hall for the Strategic Doing today in the Exhibit Hall. If you volunteer for Strategic Doing, please tell Craig so he knows what the Division is doing. There is a Financial Town-hall today. Anne will be attending and will report back.

Report of the Program Chair, Craig Beard: Please give ideas for next year's conference to Bruce.

Report of the Secretary-Treasurer, Bruce Neville: There has been trouble this year with ASEE HQ in getting statements. Bruce has a meeting scheduled with the ASEE financial office at this conference. He will get a report to membership shortly.

Committee Reports: Anne asked Chairs only to give updates to any reports that were not published in the most recent newsletter.

Awards: There were no nominations for Innovation Award. We need to consider replacing or retiring that award. We always need nominations for other awards!

Development: Thanks to all sponsors. We received a new travel stipend from Elsevier-Ei Village-Knovel. This will be a needs-based scholarship to begin with Columbus meeting. Details to follow.

Mentoring: Looking at web forum instead of email for forums.

Nominating Committee: Congratulations to John Napp and Willie Baer, who were elected First-year Director and Secretary-Treasurer, respectively. Thanks to Daniela Solomon and Christie Wiley for running. Question: What was voter turnout? A: Don't remember. Under 50%, maybe 40%?

Publications: There will be a committee meeting in front of Exhibit Hall F. New members, please consider joining. The main responsibility of committee members is reviewing papers for conference.

ELD Business Meeting *(Continued...)*

Old Business.

Bylaws. Julie Cook reported that diversity language was added to the bylaws. It was approved by members. The revisions are on the consent agenda for the ASEE Board on Wednesday.

New Business.

Anniversary Activities: Mike White reported for the Anniversary Task Force. Next year is our 50th anniversary as a Division and 75th as a Committee. The task force sent out surveys and thanks those who responded. One outcome of the task force is the long-term member recognition program that will occur later in the business meeting. The finding aid for the ELD Archives at UMass Dartmouth had been updated. The list of past Division Chairs has been updated. The task force is collaborating with the Engineering Division of SLA in compiling a list of milestones in Engineering Librarianship, perhaps to be a web exhibit or poster.

Awards and Recognition.

Morgan & Claypool Travel Stipends:

2016 awards. Linette Koren and Margaret Phillips received \$250 each. John Napp and Scott Curtis received \$500 each.

2017 awards. In the drawing for the \$250 awards, the names, in order, were: David Hadjik, Susan Wainscott, Jay Bhatt, Alice Trussell, and Paula Johnson. The \$500 stipends are need-based. If recipients can receive money directly from a vendor, Morgan & Claypool will cut the check directly. If not, Morgan & Claypool will pay ELD and we will send the check.

The 2016 Best Publication Award goes to Qinqin Zhang, Maren Goodman, and Shiyi Xie for their article *Integrating Library Instruction into the Course Management System for a First-Year Engineering Class: An Evidence-Based Study Measuring the Effectiveness of Blended Learning on Students' Information Literacy Levels*. The article was published in *College & Research Libraries*, November 2015, pages 934-958.

The 2016 Homer Bernhardt went to Megan Sapp-Nelson.

Long-term Member Recognition Program. The Membership Committee has established a program to recognize continuous long-term membership in the Division. In this inaugural year, all members who have been members for 10 or more years were recognized in 5-year cohorts. Mauro Pittaro Jr. and Russell H. Powell both have 48 years of continuous membership. Those members at the business meeting were presented with a certificate and a photograph of each cohort was taken for the archive. Tom Volkening was the member with the longest continuous membership (30+ years) present. The list is attached as an appendix to these minutes.

The meeting was adjourned at 9:25 am.

Respectfully submitted,

Bruce Neville, Secretary-Treasurer

ELD Business Meeting *(Continued...)*

Appendix: Long-term Membership List

10-14 Years of Membership

Ruth Wolfish
 Nancy B. Linden
 Rachel Berrington
 Susan K. Boyd
 Patricia A. Mason
 Joel Claypool
 Linette Koren
 Michael B. Morgan
 J. Scott Hawker
 Megan R. Sapp Nelson
 Tracy L. Primich
 Patricia E. Kirkwood
 Julie M. Cook
 Cecilia P. Mullen
 Barbara Williams
 Scott A. Curtis
 Sarah Jane Dooley
 Kristen MacCartney
 David E. Hubbard
 Mary L. Strife
 Susan M. Vazakas
 Nancy J. Spitzer
 Paul F. Grochowski
 Hemalatha Ramachandran
 Adriana Popescu
 Patricia A. Watkins

15-19 Years of Membership

Joan Omoruyi
 Bruce Neville
 Jay J. Bhatt
 G. Robert Houdek
 Julia M. Gelfand
 John C. Teleha
 Deborah Helman
 Angela Locknar
 Martin Kendall Wallace
 Maymanat (May) Jafari
 Ibiroko O. Lawal
 Craig W. Beard
 Robert Alan Heyer-Gray
 John B. Napp
 Roman Koshykar
 Alice J. Trussell

20-24 Years of Membership

Karen Greig, P.E.
 Ann E. Morgan
 Catherine Lawton
 Larry A. Thompson
 Kevin P. Drees
 Christina A. Byrne
 Carol Salomon
 Michael J. White
 Amy S. Van Epps
 Stella Ota
 Andrew Shimp
 Najwa L. Hanel

25-29 Years of Membership

Linda R. Musser
 S. Norma Godavari
 Jill H. Powell
 Mel DeSart
 James A. Van Fleet
 Beth L. Brin
 James W. Clasper
 Judy Siebert Maseles

30-34 Years of Membership

Paige Gibbs
 Vladimir T. Borovansky
 Charlotte Erdmann
 Tom C. Volkening
 Nestor L. Osorio

35-39 Years of Membership

Philip H. Kitchens (38 years)
 Donald G. Richardson (36 years)
 Joseph (Jay) Waddell (35 years)

40-44 Years of Membership

Dorothy F. Byers (40 years)

45+ Years of Membership

Mauro Pittaro Jr. (48 years)
 Russell H. Powell (48 years)

Conference Report, New Orleans 2016

ASEE-ELD Conference Summary

ASEE 2016 Annual Conference, June 26-29, New Orleans, LA

By David E. Hubbard, Paul Grochowski, and Lee A. Cummings

Laissez les bons temps rouler! Like last year, ELD held an Unconference prior to the official start of the conference. The event was held at the National WWII Museum on Sunday June 26th from 9am-3pm. After voting on a list of possible topics for discussion later in the afternoon, attendees were treated to four presentations by Mike White, Megan Sapp Nelson, Patricia Kirkwood, and Qianjin (Marina) Zhang. There was also a discussion on the proposed changes to ABET EAC Criteria 3 and 5 moderated by Tom Volkening. After lunch, attendees selected topics voted on in the morning for group discussion. After two rounds of group discussion, a representative from each group reported out. Additional details about the program and PowerPoints can be found on the [ELD Website](#). Many thanks to Daniela Solomon (Chair), Sheree Fu, Paula Johnson, and Tom Volkening for organizing the Unconference and to SPIE for sponsoring and providing a continental breakfast.

Later in the afternoon, ELD participated in the ASEE Division Mixer. ELD participation was coordinated by Kari Kozak with the assistance of several volunteers. The ELD table featured a wishing wall activity where attendees responded to the question "What do you want your library to be?" on a sticky note and placed it on the tri-fold poster "wall." We also handed out fans with the ELD logo. This prompted many conversations with other ASEE members and quite the congregation in front of the table! The ASEE Division Mixer was followed by the opening of the Exhibit Hall and Welcome Reception. ELD members then capped off their evening with a Dessert Reception at Calcasieu sponsored by SPIE.

The ELD program opened Monday with the ELD Welcome Session and Lightning Talks. The session was moderated by Sylvia George-Williams (Southern Methodist University) and included fifteen 3-minute lightning talks. The topics discussed included many familiar themes: collections, instruction, and outreach. There were a few talks about weeding collections (microfiche and books) and a few about promoting collections (ebooks, repository content, and print books). In terms of instruction, speakers discussed flipping classes, data literacy/management, and scheduling instruction. There were also a couple involving outreach that focused on various events such as ComicCons and "nerd parties," as well as using social media to promote events and collections. More details and the PowerPoints can be found on the [ELD Website](#). Lunch was sponsored by IET and IOP.

For the sake of readability, only the presenting author(s) are listed below for the papers presented. If any of the following interest you, be sure to take a look at the full papers in ASEE PEER (<https://peer.asee.org/>) for more details.

The first technical session, It's All about the Students, was moderated by John Napp (University of Toledo). Daniel Christie and Jay Bhatt (both of Drexel University) presented on developing questions for the Knovel Academic Challenge and hosting a "marathon night" in the library using a game-based learning approach to promote information literacy. Daniel stated that "college-age students spend thousands of hours playing games that result in a developed skillset. The project seeks to make that skill information literacy." Pradeep Kashinath Waychal (Narsee Monjee Institute of Management Studies) surveyed undergraduate engineering students at an Indian university regarding resources used to prepare for exams and found that they relied heavily on class notes and that additional study spaces in the library for groups were needed. Robert Chin (East Carolina University) presented on several initiatives to support 3D printing in the library that included a LibGuide and workshops focusing on conceptual understanding, hands-on experience, open-ended exploration, and how to learn more after the session. Some of the 3D workshops were tailored to a particular discipline.

The last ELD technical session for the day was Foundations for Pedagogical Success and was moderated by Lisa Ngo (University of California - Berkeley). Sarah Lucchesi (Michigan Technological University) reported on a continuous improvement program for instruction. Their education team identified, developed and implemented faculty feedback (already in place), peer observation of teaching, student work analysis, and a rubric-based self-assessment. The rubric was based on the *ACRL/IS Standards for Proficiencies for Instruction Librarians and Coordinators* and solely for one's own professional development. Tanya Kunberger (Florida Gulf Coast University) presented on how an information literacy module was embedded into an introductory engineering course through a flipped classroom approach using videos. The efficacy was assessed using pre- and post-testing, as well as assessment of the citations in student research papers. Marian Armour-Gemmen and Robin Hensel (both of West Virginia University) reported on a program to educate new librarians and colleagues outside of STEM to teach first-year engineering information literacy instruction courses. This involved observation, reflection/input, and practice (i.e., teaching). Mentoring their non-STEM colleagues validated what they were doing and provided insights for changes.

Conference Report *(Continued...)*

After the first full day of technical sessions, ELD members converged on Calcasieu for the ELD Welcome Reception sponsored by IEEE. We welcomed new members and caught up with colleagues. For those that just couldn't break away from all the great conversation, we walked a few blocks down the street to Tommy's Bistro for an After Party with more food and beverages. Many thanks to IEEE for sponsoring both the ELD Welcome Reception and After Party.

Tuesday morning began with the ELD Annual Business Meeting and a breakfast sponsored by SAE. The business meeting minutes are provided elsewhere in the newsletter, so only a few highlights will be mentioned here. Megan Sapp Nelson was the proud recipient of the Homer I. Bernhardt Award, which now includes a monetary award sponsored by ASTM International. Upon acceptance she said she was "honored to be honored by my friends" and credited Purdue University's atmosphere and colleagues for her success. The 2016 Best Publication Award was presented to Qinqin Zhang, Maren Goodman, and Shiyi Xie (all from University of Western Ontario) for their article titled "Integrating Library Instruction into the Course Management System for a First-Year Engineering Class: An Evidence-Based Study Measuring the Effectiveness of Blended Learning on Students' Information Literacy Levels," which was published in *College & Research Libraries*. Something new to the business meeting is the ELD Membership Recognition Program developed by the Membership Committee, which recognizes members for their continuous years of ELD membership at 10, 15, 20, 25, 30, 35, 40, and 45+ years. Many pictures were taken of those recognized for their continuous membership. A complete list of members recognized is published in the 2016 Business Meeting minutes and the 2016 May Newsletter.

The Focus on Exhibits included lunch and ASEE Divisional Poster Sessions, including "Modification of the House of Quality to Assess Information Gaps during Quality Function Deployment of Engineering Design" presented by Chelsea Leachman (Washington State University). The House of Quality was modified to incorporate information resources into the Quality Function Deployment (QFD) engineering design method. A combination of lecture and active learning activities were used to engage the students in the iterative nature of research, which is one of the threshold concepts in the new *ACRL Framework for Information Literacy for Higher Education*.

Textbooks in BME: Printed, Online and Open Source was a panel discussion moderated by William Guilford (Biomedical Engineering, University of Virginia). The panelists included: Jay Bhatt (Drexel), Ann Saterbak (Bioengineering, Rice University), and Joel Claypool (Morgan & Claypool). Each panelist spoke for about 15 minutes and then there was a Q&A. Ann Saterbak still sees value in the print book and discussed the amount of work required to write a textbook. Jay Bhatt discussed the costs and the need to move from "It's my book" to "It's our book" with broader access. Joel Claypool discussed the need for a sustainable publishing model and that consumers want inexpensive, easily accessible ebooks on all types of devices. A healthy Q&A discussion followed, which focused on how textbooks are used, faculty reward structure for textbook writing, the economics/sustainability of textbooks, and calls for change.

The last ELD technical session on Tuesday, Engineering Libraries - Extending Our Outreach, was moderated by Ronke Lawal (Virginia Commonwealth University) and sponsored by Begell House. Megan Sapp Nelson (Purdue University) presented on how librarians can help disciplinary faculty create an online presence and demonstrate the impact of their research using altmetrics. In essence, this is a social-network building service. Librarians can assist faculty with the selection of channels that match the type of information, audience, dissemination goal and ultimately the appropriate altmetric. Ellie Ransom (Columbia University) reported on a graduate outreach program that included launching a monthly newsletter, marketing e-resources, and new workshops/events. The latter were developed with assistance from the Engineering Graduate Student Council. The monthly newsletter is distributed four times a semester via email and opened by about 25% of the recipients. The e-resources were promoted through advertisement at the circulation desk, on a large monitor, in a newsletter, through a blog, and through Twitter. The workshops focused more on professionalization of the engineering graduate students versus traditional library topics.

The ELD Annual Banquet was held on the Steamboat Natchez and was sponsored by Elsevier. Conversation and beverages flowed while we cruised down and back up the Mississippi River. We then went into the dining room for a Creole-inspired buffet. Anne Rauh and Craig Beard said a few words and shared many thank-yous to those that helped with organizing the conference. Steve Petric (Elsevier, Director - Product Management) also shared a few words. If the volume of conversation in the dining room was any indicator, it sounded like everyone had a great time!

Wednesday morning began with a session titled Impacting the Past, Present, and Future moderated by David Schmitt (University of California, San Diego). Amani Magid (New York University, Abu Dhabi) presented on becoming a new engineering librarian using "patent claims" as an organizing framework to describe her path and lessons learned. Liaising, subject matter, networking, and information literacy needs were the main themes.

Conference Report *(Continued...)*

Daniela Solomon (Case Western Reserve University) and Matthew Marsteller (Carnegie Mellon University) reported on the national survey of engineering librarians research metrics services at major research universities in the United States. The authors found libraries mostly providing informal, one-on-one consultations versus formal programs. When asked what tools does your library use to gather metrics, Web of Science, Scopus, and Google Scholar were the most widely used, with most altmetric tools far behind. Mike White (Queen's University) presented on the history of SPEE/ASEE/ELD from 1893 to 1960. Using primary sources, such as the Proceedings of the Society for the Promotion of Engineering Education (SPEE), the author highlighted various milestones and themes. The Society noted the importance of the liberal arts to a technical education early in its founding. The idea of information overload was also noted. The author will provide a historical overview from 1961-present during the 2017 Annual Meeting, which is ELD's 50th anniversary.

The Open Engineering Education Resources panel session was moderated by Amy Van Epps (Purdue University). The first panelist was Aditya Johri (George Mason University) and he discussed a NSF funded collaborative project on data sharing within the engineering education community. The survey participants thought sharing engineering education research data was beneficial; however, they also had concerns about misuse of data, replication, and lack of infrastructure to support the sharing. See [Perceptions and Practices of Data Sharing in Engineering Education](#) for more details. Don Millard (Deputy Division Director, NSF Division of Engineering Education and Centers) discussed NSF's Public Access Repository (PAR) and the driving forces behind it: reproducibility/validity and saving tax dollars through reduced research duplication. Chealsye Bowley (Open Data Button and Florida Gulf Coast University) discussed a new free widget (Open Data Button) that allows readers to search/request data from authors. See <https://opendatabutton.org/> for more details. A lively discussion about public access, open access, and policies thereof followed. ASME sponsored the session and provided breakfast.

The panel session Bringing Students, Faculty, and Librarians Together: Game-Based Learning for Interdisciplinary Education was moderated by Sally Fell (Elsevier). The panelists were Jay Bhatt, Antonios Kontsos, and Daniel Christie (all from Drexel University). Daniel Christie provided a history of gaming from Carmen San Diego to Minecraft. He also discussed styles of instruction and how game design principles align with active learning principles. He asked “[w]hat if education provided the same instant feedback as gaming?” Jay Bhatt stated that information literacy is not complete without an active learning (conversation, participation, etc.) component and that gamification serves this purpose. Antonios Kontsos described how his freshman engineering design classes were using gaming and how competitions were created to support STEAM learning (i.e., STEM + Art). He also noted that the first thing 18-year-olds use to find things is no longer Google, but YouTube. After initial presentations, Q&A followed with questions involving benefits, challenges, implementation, and motivation/participation.

The final ELD session was moderated by Anne Rauh (Syracuse University) and titled The Move from Subject to Functional Roles: What Does it Mean for the Engineering Librarian? The panelists for the session were Honora Eskridge (North Carolina State University), Deborah Helman (University of Wisconsin-Madison), Doug McGee (University of Pennsylvania), and Adriana Popescu (Cal Poly San Luis Obispo). As the title suggests, the librarians at their respective institutions discussed moving from subject-based models to more functional roles or hybrid models where subject librarians collaborate more with librarians in functional roles (e.g., scholarly communications). The panelists discussed liaison goals, program assessment, skills needed, and communication among librarians. In response to the moderator question about what things liaisons can give up, given that there are more and more things to be involved in, some of the responses were: reference services, collection development, facility management, and some committee work. In a summary statement the moderator stated that regardless of the model, engagement is key.

Many thanks to all that presented, moderated, peer-reviewed, and organized all the details that created such a great conference. Hope to see you in Columbus, OH.

ELD Anniversary Task Force Update

The ELD Anniversary Task Force met in New Orleans and again via Skype on September 9 to continue planning for our double anniversary celebration in 2017. The members of the task force are Mel DeSart, Chelsea Leachman, Amani Magid, Nestor Osorio, Zach Painter, Tom Volkening, Michael White and Yu Zhang.

In July we launched our “Milestones in Engineering Information” e-digest series. The purpose of the series is to highlight important developments in the history of engineering information and libraries over the past two hundred years. Each digest is researched and written by a member of the task force. Our goal is to publish a new topic every month until mid-2017. We welcome your feedback and ideas for future topics. The entire series will be archived on the ELD website. The first two digests from July and August are reprinted below.

Milestones in Engineering Information Schedule

Month	No.	Theme
July 2016	#1	Journals, Magazines and Proceedings
August	#2	Compendex/Engineering Index
September	#3	Other Engineering Indexes and Databases
October	#4	Engineering reference works
November	#5	Internet/Web
December	#6	Patents
January 2017	#7	Standards
February	#8	Technical Reports
March	#9	Engineering data (experiment station bulletins to data journals to online repositories)
April	#10	Engineering libraries
May	#11	Librarians in engineering education
June	#12	Librarians in ASEE

ELD webmaster Julie Cook has added the names of chairs of the Engineering School Libraries Committee, ELD's predecessor, from 1942 through 1960 to the website. We hope to add the names of all ESLC/ELD officers from 1960 through 1989 in early 2017.

The task force is also reviewing designs for an ELD anniversary logo and hopes to make a decision soon.

Submitted by Michael White

ELD Anniversary Task Force Update *(Continued...)*

Milestones in Engineering Information, #1, July 2016 **Engineering Journals, Magazines and Proceedings** **Michael White**

Today there are thousands of periodicals on every conceivable aspect of engineering and engineering technology. These range from peer-reviewed academic journals and conference proceedings to professional magazines and student newspapers. The oldest peer-reviewed scientific journal is the [*Philosophical Transactions of the Royal Society*](#), first published in 1665. Although many of the papers published in the *Philosophical Transactions* dealt with engineering topics, the first true engineering journals appeared in the early 1800s.

One of the earliest engineering journals was the [*Mechanics' Magazine*](#), first published in London in 1823. The purpose of the magazine was to convey information on new discoveries, inventions, improvements and events of interest to those employed in the "different trades and manufactures." In 1825, James Seaman of New York launched the [*American Mechanics' Magazine*](#), which included reprinted articles from other journals as well as original articles on science, technology, new inventions and manufacturing. Within a few years, it was subsumed within the [*Journal of the Franklin Institute*](#), which is still published. In 1845, the [*Scientific American*](#), which focused on inventions and patents, was first published.

In the mid-1800s, engineering societies began publishing their own journals, transactions and conference proceedings. In 1836, the Institution of Civil Engineers (ICE), formed in 1818 as the world's first professional engineering organization, first published its [*transactions*](#). By the end of the 1800s, countless engineering societies worldwide were publishing proceedings, transactions and journals. Examples include the [*Transactions of the American Society of Civil Engineers*](#), [*Transactions of the Canadian Society of Civil Engineers*](#), [*Transactions of the American Institute of Electrical Engineers*](#), [*Proceedings of the Institution of Mechanical Engineers*](#), and, of course, the [*Proceedings of the Society for the Promotion of Engineering Education*](#).

The growing demand for engineering news in the 1800s inspired many engineering newspapers and magazines. In addition to news, these periodicals often carried articles on practical engineering topics, correspondence from readers, scientific and technical data, book reviews, and product advertisements. One of the best known is the [*Engineering News Record \(ENR\)*](#), first published in 1874. Other examples include Van Nostrand's [*Engineering Magazine*](#), the [*American Railroad Journal*](#), [*Electrical Engineer*](#), and [*Engineering and Mining Journal*](#).

Toward the end of the 1800s, engineering student clubs, alumni groups, and local engineering societies also began publishing their own journals. Examples include the [*Technograph*](#) at the University of Illinois, the [*Technic*](#) at the University of Michigan, the [*Wisconsin Engineer*](#) at the University of Wisconsin, and MIT's [*Technology Review*](#).

The 20th century saw an explosion in engineering periodicals in all forms. Today large engineering societies publish tens of thousands of journal articles and conference papers each year. In the past 20 years, academic engineering journals and proceedings have largely migrated to online formats and many engineering professional magazines have evolved into websites and blogs. Engineering periodicals will continue to evolve as technology changes but they will remain a core source of current technical information and research.

Milestones in Engineering Information, #2, August 2016 **Engineering Index/Compendex** **Mel DeSart**

Little did Dr. John Butler Johnson likely know when he started producing "index notes", just for his own use, that his little project would grow into the oldest and most subject-comprehensive indexing tool in engineering. Initially compiled into a personal book he called "Index Rerun", in 1883 Johnson approached the Board of Managers of the Association of Engineering Societies (of which he was a member) suggesting that something similar to what he was doing, but more formal and elaborate, be produced and published in the Association's journal. The Board agreed, and in 1884 Johnson and some of his engineer colleagues began to produce "Index Notes" in issues of that journal.

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ELD Anniversary Task Force Update *(Continued...)*

In 1892, the first eight years of those notes (1884-1891) were compiled into the *Descriptive Index of Current Engineering Literature*, which eventually became known as the first volume of *The Engineering Index*. The second volume, also a multi-year compilation covering 1892-1895, was the first published under the title: *The Engineering Index*. Volumes three and four were also multi-year compilations, but in 1906, with volume five, *The Engineering Index* began to be published annually in a single volume.

In 1918/1919 the American Society of Mechanical Engineers took over ownership and publication of *The Engineering Index* and installments began to run monthly (with annual cumulations) in issues of the *Journal of the American Society of Mechanical Engineers*, which only a year later changed its name to what we still know it as today: *Mechanical Engineering*. At that same time, a cooperative agreement was reached with the Engineering Societies Library where the *Index* would review and index the key engineering journals published by the Library and the Library, in turn, agreed to provide the public with access to the articles covered by the *Index*. ASME continued publishing the *Index* until 1934, when an independent, not-for-profit organization, "Engineering Index, Inc." was formed.

By 1954, 70 years after Dr. Johnson helped publish that first set of "Index Notes", Engineering Index published its one millionth record. 21 years later it published its two millionth. From 1934 through 1961, *The Engineering Index* was again only an annual publication, but in 1962, because of both the volume of engineering articles being indexed/abstracted and the demand for more rapid access, *Engineering Index Monthly* made its debut. Those issues were then cumulated at the end of each year into *Engineering Index Annual*.

Arguably the biggest and most important changes to *Engineering Index* happened in the late 1960s. In 1967, a magnetic tape service called Current Information Tapes for Engineering (CITE) was introduced. CITE covered abstracts only in plastics and electrical/electronics engineering. Then, in 1969, the COMPuterized ENgineering inDEX, or COMPENDEX, made its debut. Compendex, a monthly magnetic tape information service, covered all of the subject content in its print counterpart, and as a result, the specialized subject content covered in CITE was no longer needed and the product was phased out at the end of that year. In 1973, Compendex was offered for the first time through online commercial vendors such as DIALOG and ORBIT.

1981 saw a name change, as "Engineering Index, Inc." became "Engineering Information, Inc.", as Ei began to look at broadening their product offerings beyond just Engineering Index / Compendex. One of those new product offerings debuted only a year later, as the Ei Engineering Meetings database, which indexed papers from roughly 2000 conference proceedings, was introduced. In 1983, Engineering Index on CD-ROM was released, and then three years later, in 1986, Compendex first appeared on CD-ROM.

The next big change came in 1995, when the Engineering Information Village was launched, making Compendex and other EI products available via the World Wide Web. The name was representative of the design of the original web site, which featured a series of building images on the top page, meant to represent a village, with each building linking to a different type of resource. Engineering Information Village 2.0 premiered less than a year later.

Engineering Information, Inc. was an independent company from 1934 until March, 1998, when it was purchased by Elsevier. Roughly two years after the purchase, the next major release of the Ei search platform occurred as Engineering Village 2 (EV2) debuted. In 2003, Elsevier began to host other indexing and abstracting databases on EV2, when IN-SPEC licensing became possible. Over the next few years, NTIS, Referex, multiple patent databases, GeoBase, Chimica, PaperChem and GeoRef all became available on the Engineering Village 2 platform.

While it took 70 years for *Engineering Index* to reach its one millionth record, today Compendex boasts over 20 million records, with more than 800,000 new records added annually. Now at 130+ years and counting, Engineering Index / Compendex is the preeminent indexing/abstracting resource for the broadest range of engineering disciplines.

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ELD Anniversary Task Force *(Continued...)*

For further reading:

While there are a number of works that address, in various ways and time frames, the history of Engineering Index, four were particularly useful in compiling this brief history.

Engineering Index 1884-1984: Its History and its Service to Special Libraries, by Herbert B. Landau. In *Special Libraries*, vol. 75, no. 4, October, 1984, pp. 312-318. See page 85 of the [pdf file](#).

[Changing Roles for Science & Technology Librarians as Reflected in the History of Engineering Index](#), by Daryl C. Youngman. In *Issues in Science and Technology Libraries*, no. 18, Spring 1998.

[The History of Ei](#), from Elsevier.

and last, but definitely not least, from ELD's very own Nestor Osorio:

[The Engineering Index: The Past and the Present](#), by Nestor Osorio. Presented at the 2010 ASEE Annual Conference and Exposition, Louisville, KY.

Call for Papers, Columbus 2017

Bruce Neville

The Engineering Libraries Division (ELD) of the American Society for Engineering Education (ASEE) is accepting abstracts for consideration for presentation at the 2017 Annual Conference & Exposition in Columbus, Ohio. ELD accepts abstracts for full-length presentations and posters. ELD welcomes abstracts from or joint presentations with members of other divisions. ASEE has identified this coming year as a Year of Action on Pre-K-12. 2017 will be our 75th anniversary as a Committee and our 50th anniversary as a Division. Papers celebrating Pre-K-12 outreach or the history of engineering librarianship are particularly welcome. Papers on inclusion are also always welcome; to qualify for the Society's Best Diversity Paper, diversity and inclusion must be the focus of the paper. An author kit will be available on the Society and Division website shortly. Please direct any questions to Bruce Neville, ELD Program Chair, at bneville@tamu.edu.

Note: The above call for papers is only for those that are handled in Monolith and will be published in the Proceedings of the Conference; it does not include our lightning talks. Lightning talks are handled outside the formal paper management system. A call for lightning talks will come later through the ELD listservs.

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Brought to you by the ELD Mentoring Committee

Call for Nominations

Anne Rauh

The ELD Nomination Committee seeks candidates interested in running for Director and Secretary/Treasurer of ELD. The slate of candidates will be presented in late February 2017 and elections will be held in March, in accordance with the [ELD bylaws](#). ELD is a volunteer organization so we need you! Running for and serving as an ELD officer is a great way to get involved in ASEE and contribute to your professional community. Self-nominations are encouraged!

The Secretary/Treasurer position is the first of the four year officer track. The elected individual will commit to serve in all four positions – Secretary/Treasurer, Program Chair, Division Chair, and Past Chair/Nominating Committee Chair – with their final term concluding in June 2021. For the first three years, this person will serve on the Executive Committee (EC), and for all four years, this person will serve on the Extended Executive Committee (EEC). The EC is the primary governing body of the Division and the EEC is an advisory body to the Executive Committee on matters relating to the objectives of the Division. The elected individual will also be expected to attend the Annual Conference for the duration of their term.

The Director position is a two year commitment and the elected individual will also be expected to attend the Annual Conference for the duration of their term. This term will run through June 2019. There are two directors serving staggered terms who are both members of the EC and the EEC. In the first year of the term, the Director organizes the ELD welcome reception. In year two, the Director organizes the annual banquet. Complete descriptions of the positions are available on the [ELD Officers, Committees and Appointed Positions](#) page.

Please let me, or any member of the Nominating Committee, which includes Bob Heyer-Grey and Megan Sapp Nelson, know if you have any questions about the nominations process or the responsibilities of the positions. We are happy to answer any questions and encourage anyone interested in serving ELD to consider running for these important roles.

Anne Rauh
Chair, Nominating Committee

2017 Conference Planning

As you plan for Columbus ...

The ASEE Conference Office has made some significant changes to the conference schedule for 2017 in Columbus. In order to provide more time for technical sessions and to encourage attendees to stay through Wednesday afternoon, technical sessions have been added on Sunday and workshops have now been moved from Sunday to Wednesday afternoon. We realize that this adds at least one additional hotel night to your already stretched budget, so we're going to try to keep to our Sunday evening-to-Wednesday afternoon schedule. We are planning a workshop on Systematic Literature Reviews in place of the unconference of the last couple years. If you are interested in attending, please figure on staying through Wednesday evening. (And attendance will be limited, so sign up early!) We still hope to squeeze in all the usual social and networking events. Only 318 days to Columbus!

Bruce Neville
Program Chair and Chair Elect

Are you new to the Engineering Libraries Division?

Attending your first ASEE Annual Conference?



Try the CONFERENCE BUDDY PROGRAM

Get paired up with an ELD Member to show you the conference ropes.

Contact Bruce at: bneville@library.tamu.edu



Brought to you by the ELD Mentoring Committee

Committee Reports

Accreditation and Standards Committee

The Accreditation and Standards Committee has spent the last year focused on monitoring and providing input to ASEE and ABET regarding the proposed ABET changes to Criterion 3 (Student Outcomes) and Criterion 5 (Curriculum). The earlier proposed change to Criterion 3 included "An ability to recognize the ongoing need for additional knowledge and locate, evaluate, integrate, and apply this knowledge appropriately." Despite the Committee's efforts to argue for retaining that language and adding life-long learning back into the criterion, the latest proposed change is now "An ability to recognize the ongoing need to acquire new knowledge, to choose appropriate learning strategies, and to apply this knowledge." At this point, ABET's Engineering Area Delegation (EAD) will do one of the following: (1) Approve the proposed criteria as written and implement, (2) Delay final approval for one year and seek additional public comment, or (3) Reject the proposal. The EAD will make a decision in October. Additional details can be found at the ABET website: <http://www.abet.org/blog/news/criteria-updates-from-the-july-eac-commission-meeting/>. It's possible that there will be another round of comment. Should the proposed changes be delayed or rejected, the Committee will seek additional input from members.

David Hubbard
Chair, Accreditation & Standards Committee

ASEE ELD Directory of Members

The ASEE ELD Directory of Members was last published in August 2016. The directory, which lists contact information, research id numbers, research interests, and CV/Bio links, is great for networking. ELD members that wish to either update their information listed the directory or to request the link and password for downloading the latest directory should e-mail ewen@rose-hulman.edu.

Bernadette Ewen
Chair, Membership Directory

Publications Committee

We have two working groups creating drafts of guideline documents for consideration by the Executive Committee. One working group is working on a guideline document for authors writing papers for the ASEE Annual Conference, and the other working group is working on a guideline document for peer reviewers of papers for the conference. The aim of both guidelines is to provide assistance to both authors and reviewers so that we improve the consistency of the quality of both the presented papers and the authors' experience with the peer review process. Both drafts will be reviewed by the Publications Committee as a whole by the end of September, and submitted to the Executive Committee by mid-October. We anticipate that any implementation would impact papers for the 2018 Conference, since the abstract submission process for the 2017 conference has already opened.

Scott Curtis
Chair, Publications Committee

Web Committee

I am still looking for two or three people to join the Web Committee. Normally a very quiet committee, this year is going to be quite active because I am strongly considering moving the site to the ASEE server. ASEE now offers free hosting with WordPress content management software which will allow our site to be maintained much easier and allow flexibility for future maintenance. ELD will no longer need to find a webmaster who can also host the site on their school's server. This is a big change!

In the next few months, the Web Committee will be responsible for evaluating the new design and giving feedback on usability. Please email me: julesck@uw.edu if you are interested in joining this Committee.

Julie Cook
Webmaster, Chair Web Committee

ELD Sponsor Organizations

Thank you to all of our sponsors at New Orleans, 2016

ELD has been fortunate to have the support of many sponsors whose generosity enhances the conference experience for all who attend. Without their support, we would not have the meals, the receptions, the session Internet connections, and the travel stipends. All of the sponsors play a crucial role in making the ASEE / ELD program the success that it is each year.



People & Places

New Members

Matthew Marsteller works at Carnegie Mellon University as the Senior Librarian, Engineering & Science, as well as at Clarion University of PA as an Adjunct Professor in library science as needed. He has been at his current positions at Carnegie Mellon for 2 years and Clarion University for 16. Previously, Matthew has held numerous positions at Carnegie Mellon, including Head of the Science Libraries and the Physics and Math Librarian. Before that, he worked at the Federal Energy Technology Center Libraries in West Virginia and as a Science Librarian at the University of South Carolina after spending time in the US Navy as an Interior Communications Electrician, First Class on the USS Mississippi. Matthew earned his MLS degree from Clarion University of PA, and holds a BS in Physics, also from Clarion University. He also holds an Associate Degree in Liberal Studies from SUNY. Currently, Matthew is a U.S. Representative on the Governing Council of SCOAP3 and a Judge of Elections in South Strabane Township, 2nd Precinct.

Marina Zhang: I'm an Engineering & Information Librarian at Lichtenberger Engineering Library of the University of Iowa. I've been in this position for one year and eight months since October 2014. I've been involved in a variety of tasks/projects: research data services, library exhibits, and instruction/references. My colleague and I established a research data interest group providing data management training for librarians, staff and researchers, offering one-to-one consulting service, and organizing data events (bringing in a data management expert from UIUC and a data management architect from NOAA to campus for seminars). I teach EndNote (Desktop version and Online version) workshops for engineering students.

Before moving to Iowa, I worked as a library specialist on the Thesis & Dissertations Digitization Project at the University of Arizona Libraries after graduating from the library school at the University of Arizona. During my library science program, I was a graduate assistant working for a professor on his two projects: Biological Science Collections Tracker (<http://biscicol.blogspot.com/>) and Integrated Digitized Biocollections (<https://www.idigbio.org/>). I also worked as a student worker on an Afghanistan Digital Collections project (<http://www.afghandata.org/>) at the University of Arizona Libraries.

Before moving to US, I got my B.S. in biotechnology from Jiangsu University of Science and Technology in Zhenjiang, Jiangsu Province, China.

Heidi Tebbe: I am the Collection Manager for Engineering and Data Science at NCSU Libraries in Raleigh, NC. I started this position in May 2016 and was in the 2014- 2016 class of NCSU Libraries Fellows. Prior to working in libraries, I developed multimedia for corporate training for nearly a decade. I earned a BS in Physics from the University of Missouri-Columbia and an MA in Astronomy, an MS in Telecommunications/Immersive Mediated Environments, and an MLS with a Digital Libraries specialization, all from Indiana University Bloomington.

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ELD Officers & Committee Members *(Continued...)*

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