American Society for Engineering Education

Engineering Libraries Division Newsletter

September 2015

Inside this issue:

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."

http://depts.washington.edu/englib/eld

Message from the Chair
Anne Rauh

Before sitting down to write my column for the newsletter, I read past September issues and saw that my predecessors began their messages with glowing reviews of the annual conference, updates on never-ending campus construction, and well wishes for productive fall semesters full of interactions with engaged students and colleagues. I will get to all of those topics eventually, but I wanted to jump right in and talk about what has been on everyone's mind – the future of ELD.

ELD Special Election

As announced on September 17th the results of the special election are in and the membership has voted to continue on with ASEE. The Executive Committee is committed to working with ASEE to better fit our needs. We will continue to push for a librarian conference rate, for changes to the publish-to-present requirement, and for more flexibility in conference scheduling. Thank you to every member who voted in the special election and debated our future. I would especially like to thank the members of the Visioning Task Force (Scott Curtis, Mel DeSart, Laura Hanlan, John Napp, Megan Sapp Nelson, Melanie Sturgeon, and Michael White) for their work determining the priorities of our organization. Having these priorities laid out for us will be extremely helpful as we move forward. The executive summary of the report is included on page 13.

Another bit of good news regarding our future is that Michael White has been nominated to run for Chair of Professional Interest Council (PIC) IV. The slate of candidates for all ASEE offices will be published in the November 2015 issue of Prism magazine. The election will be held in the spring of 2016. I encourage every ELD member to take part in the ASEE elections.

Conference Recap

Now to look back at June and our annual conference. Thank you to everyone who participated in the ASEE Annual Conference and the ELD Unconference, in Seattle, and virtually. We had a full program and a new addition of the Unconference held at the Seattle Public Library. Thank you to the all of the ELD members who presented at technical sessions, lead unconference discussions, moderated and participated in panels, and sparked ideas with lightning talks. For a full list of conference participants and links to presentation slides, please see the 2015 conference website (http://depts.washington.edu/englib/eld/conf/conf2015.php)

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

Congratulations to Michael Fosmire and David Radcliffe who were awarded the Best Publication Award at the Annual Conference. Their book, *Integrating Information into the Engineering Design Process*, is for sale through Purdue University Press and available Open Access at http://docs.lib.purdue.edu/purduepress_ebooks/.

[*Right: Author Michael Fosmire receiving the 2015 Best Publication Award from Alice Trussell, Chair ASEE/ ELD Awards Committee*]

As in past years, our generous sponsors provided many opportunities for networking and travel stipends that assisted members in attending. A full list of sponsors is included on page 18. Thank you to our sponsors.

The conference would not have been possible without the help of so many of our members. The development committee (Julie Cook, Mel DeSart, Lisa Dunn, Bob Heyer-Gray, Kari Kozak, Ibironke Lawal, Stephen Stich, Larry Thompson, Amy Van Epps) chaired by Amy Buhler worked diligently throughout the year to secure sponsorships, plan meals, and coordinate with caterers. Though we are only three months out from the 2015 conference, they are already in full swing planning for 2016.

The publications committee (Giovanna Badia, Kristin Buxton, Danielle Dennie, Samuel Dyal, Kevin Drees, Sylvia George-Williams, Randall Halverson, David Hubbard, Patricia Kirkwood, Kari Kozak, Jeff McAdams, Ann Morgan, Debbie Morrow, Florence Mugambi, John Napp, Bruce Neville, Nestor Osorio, Daniela Solomon, James E. Van Loon, Jenny Wong-Welch, George Zajdel, Jennifer Zhao), chaired by Scott Curtis, is another group who is by now closer to their 2016 work than their 2015 work. They are responsible for reviewing abstracts and paper drafts and making suggestions that lead to authors creating the best possible versions of their papers in preparation for publication with ASEE.

Lastly, I would like to thank the 2015 Planning Committee (Amy Buhler, Craig Beard, Larry Thompson, Jan Fransen, Jon Jeffryes, Mel DeSart, Chelsea Leachman, Scott Curtis, John Napp, and Daniela Solomon). Without this group, there would not have been a 2015 conference. Thank you all so much.

Task Forces

At the Extended Executive Committee meeting, two task forces were created. Doug McGee will chair the Professional Recruitment Task force that will develop a set of recommendations to address the need for additional engineering librarians in our field. Bruce Neville will chair the ELD Documentation Task Force that will locate and inventory ELD working documents and recommend a strategy for organizing current working documents of ELD. Thank you both, and your Task Force members, for your work on these issues.

ABET Response

Shortly after the annual conference, we learned that ABET proposed revisions to criteria 3 and 5 of the accreditation criteria and would be accepting comments on the changes through July 31, 2015. With amazing speed, the Accreditation and Standards Committee, chaired by Julie Arendt, developed an official response from ELD with our recommendations to these changes. I would especially like to thank David Hubbard for his work on this response. The entire response is available on page 14.

Well, it is only three months into my tenure as ELD Division Chair and you are probably already tired of hearing from me so I will wrap this up. As I sit in my new office in Syracuse University's recently renovated Carnegie Library, looking at my fall to do list that is a mile long, I can't help but think how fortunate I am to be leading a group of such passionate and engaged librarians. We've had a very exciting start, and I look forward to another nine months as your Division Chair.

ELD Extended Executive Committee Meeting
Bruce Neville

ASEE Engineering Libraries Division Extended Executive Committee Meeting
17 June 2015 14:15
Washington Convention Center, Room 208

Present: Julie Arendt (Accreditation & Standards); Craig Beard (Program Chair/Chair Elect); Amy Buhler (Development); Julie Cook (Web/1st Year Director); Lee Cummings (Newsletter); Mel DeSart (E-lists); Kevin Drees (Mentoring); Bernadette Ewen (Membership Directory); Kari Kozak (2nd Year Director); John Napp; Bruce Neville (Secretary/Treasurer); Anne Rauh (Division Chair); Megan Sapp-Nelson (Nominating); John Teleha; Alice Trussell (Awards); Amy Van Epps (Bylaws/Electronic Voting)

The meeting was called to order 14:20 by Anne Rauh

Reconfirmation of Committee Chairs and Similar Positions.   Julie Arendt is the incoming Chair of Accreditation & Standards. The Archivist position remains empty. The archives are at UMass Dartmouth, where Zachary Painter is a new member. We do not know whether he is interested in the position. Anne will email to find out. Alice Trussell will continue as Chair of Awards, but will look toward training a successor. Bylaws is an ad hoc task force and does not have a specific term; Amy Van Epps will continue to lead that. Mel DeSart will continue as Editor of Electronic Lists. Bernadette Ewen will continue on as Editor of the Membership Directory. Kevin Drees will continue as Chair of the Mentoring Committee. Lee Cummings is taking over as Editor of the ELD Newsletter through 2017. He put out a call for members of the Editorial Board during the Business Meeting. Robyn Rosenberg has indicated that she will be the Chair of the Scholarly Communication Committee through 2017. Julie Cook will continue as Webmaster through 2017. Remaining committee chair terms expire in 2016. All Committee Chairs & Officers should plan on attending the EEC meeting when making travel plans.

ANNOUNCEMENTS FROM THE EXECUTIVE COMMITTEE MEETING

1. BASS Accounts.   The Society has imposed a 30% administrative fee on incoming deposits to BASS accounts after 1 Oct. No funds now in the account will be touched. Bruce learned during the New Officer Orientation that the Operating Account cannot accept deposits, nor can they be used for travel expenses to annual conferences, so we cannot use those for accepting money from sponsors for conference expenses.

2. PIC IV Meeting Updates.   All the PIC Chairs agreed that ASEE has communication issues.

3. Mike White Running for PIC IV Chair.   We learned during the un-conference that ELD candidates in the past have been actively discouraged from running for PIC Chair, even though they met the nominal requirements. Mike White has expressed an interest and is still planning to run. Maura Borrego, our current PIC Chair, is willing to mentor him. There is still time for him to get on the ballot. We await further developments.

4. Registration Fees.   Megan received a communication from ASEE Conference Staff that they don't anticipate an increase in registration fees for next year. We learned officially that the reduced librarian registration rate was disapproved. The Society received 52 requests for the registration subsidy; 40 from ELD members. So far as we know, all ELD requests were funded.

ELD EEC Meeting *(Continued...)*

OLD BUSINESS

1. Task Force for Social Media/Communications. Tabled.

2. Name Change Proposal. Tabled.

3. Committees, Committee Descriptions, etc. The major work has been completed by the Bylaws Committee. Tabled. Megan asked Committee Chairs to reconfirm member lists. Anne will send out reminder to Committee Chairs to update their member lists with the Webmaster.

NEW BUSINESS

1. Documentation Task Force. Anne would like to establish a Documentation Task Force to collect all ELD policy and procedure manuals and other documentation into one place. Bruce indicated that this sounded like a Secretary sort of task and volunteered to lead it.

2. Recruiting Task Force. One of the big themes of the unconference was the difficulty of recruiting new people into engineering librarianship. Anne would like to establish a Recruiting Task Force and will attempt to write a charge. Doug McGee has agreed to chair.

3. Awards. Alice Trussell asked us to think about our awards. No nominations were received this year for the Bernhardt Award. We, particularly long-term members, need to take on responsibility for providing nominations. The Innovation Award also suffers from a lack of nominees. It has been awarded only once in 5 years. There was only one nominee this year, and it did not meet the criteria for the award. Journal articles do not compete well against monographs for the Best Publication Award. Do we need separate categories for the two? The EEC asked the Awards Committee to draft proposals for separate awards, which must be approved by Society Board.

4. Visioning Task Force. The Visioning Task Force will have its report to the Executive Committee within a month. The report will go to the Executive Committee first to prepare another tricider discussion by the general membership. It was decided that members need to make travel plans and submit papers soon and that we cannot honor the feelings of the many members who could not attend the Seattle Conference without an extended discussion, so we will go to New Orleans as the Engineering Libraries Division of ASEE, perhaps as a hybrid meeting. The following notes are intended to record the discussion only and not a decision about the future of the Division, as none was made here.

What the membership values about the organization. Priorities already identified from the visioning survey and the discussion at the unconference include: Mailing list; network in person; cost-effective and good value; venue for publication; mentoring for early career librarians; leverage mutually beneficial collaboration (e.g., TRAIL); vendor collaboration; sustainability; communication; schedule to avoid other library conferences (including ASEE).

If we separate from ASEE. Concerns already identified from the visioning survey and the discussion at the unconference include: Tax status; details of striking out on our own; credibility of any new organization; maintaining contact with faculty and administrators; continue to lobby for increased influence with ASEE; continued contact with tech vendors (e.g., 3-D printers).

Discussion concerning separation from ASEE. With regard to tech vendors, we could "stalk" the ASEE conference and get one-day passes (order of $150). Yes, it has been confirmed that ASEE now does have day passes; they just don't advertise them.

Should we have a discussion at ALA Mid-Winter? Perhaps. It's one option.

ELD EEC Meeting *(Continued...)*

Bruce learned during new officer training that the Board can dissolve a Division and that Divisions with fewer than 200 members can be subject to dissolution. This has implications if we separate and some members choose to stay with ASEE. If the membership drops significantly below 200, the Board may dissolve the Division. Bruce will send a scan of that page to the members of EEC.

We would not be able to take the Bernhardt Award with us. It belongs to ASEE. We could have a similar award with another name, but it can't be the Bernhardt Award. What other things would we lose? The archive? The publications? Copyright of the Selective Guides to the Literature is clearly stated to belong to ASEE. They might look the other way if we posted them online and we were to stay with the Society, but they might care if we left. Is there something in the EEC minutes on the matter? Where are the EEC minutes? The archives. If anyone knows of other things that might be constraints to separation (particularly anything that has to be approved by the ASEE Board), please send them to Megan for the Visioning Task Force.

CONFERENCE PLANNING

1. Unconference. The unconference was a huge success with all that attended. It allowed us to be flexible and discuss items that arose after the call for papers had expired. There was a unanimous affirmation of the concept for next year. There was also a feeling by many that they missed the CUEBALLS (early-bird social) events. It was suggested that because the Monday morning of the conference is generally blocked for Society-wide events, we could have an the unconference on Sunday and Monday mornings with time for CUEBALLS events on Sunday afternoon.

2. New Orleans Conference. Craig Beard, Program Chair for the New Orleans Conference, took suggestions for programs for next year's conference.

Minutes of the 2014 Extended Executive Committee meeting. Minutes were accepted by email vote after the conference.

ACTION ITEMS:

1. Anne Rauh to email Zachary Painter regarding interest in Archivist position. [Done, accepted.]

2. Anne Rauh to send out reminder to Committee Chairs to update member lists to Julie Cook. [Done.]

3. Anne Rauh to write charges for the Documentation and Recruiting Task Forces. [Done, accepted.]

4. Bruce Neville to send ASEE rules for dissolution of Divisions to EEC. [Done.]

5. All please send any constraints on separating to Megan.

The meeting was adjourned at 16:00h.

Respectfully submitted,

Bruce Neville

Secretary/Treasurer

ELD Annual Business Meeting

Craig Beard

Engineering Libraries Division Annual Business Meeting (Session T221)
122nd ASEE Annual Conference & Exposition
Washington Convention Center, Seattle, WA
June 16, 2015, 8:45–10:15 A.M.

Megan Sapp Nelson welcomed ELD members to the annual business meeting, then introduced Michael Loui, Editor of ASEE's Journal of Engineering Education.

Journal of Engineering Education (Michael Loui). Michael provided an overview of JEE, including noting that copyright on articles published in JEE is held by ASEE rather than by publisher Wiley. Afterward, he received a couple of questions and a suggestion. Question: Does JEE publish theme issues? Answer: They are open to receiving proposals for such issues. Question: Will JEE accept article submissions from ELD members? Answer: yes. Suggestion: JEE should allow immediate deposit in local repositories of copyedited versions of articles. Michael said he would present the suggestion to the journal board.

Megan presented an overview of the business meeting for new members, then she introduced Maura Borrego, PIC IV Chair.

PIC IV Update (Maura Borrego). Maura began by noting that some of the problems mentioned at the last annual meeting had been acted on: though the publish-to-present requirement was still in effect, the paper fee had been dropped; the Wi-Fi access fee at the meeting venue is more reasonable; improvements have been made in Monolith. Following that, she addressed issues related to the announcement of the ASEE budget deficit and steps being taken to address it. She noted that ASEE had been operating in the red for five years, with the current year being the worst, due in large part to poor accounting procedures. The society is undergoing an audit to determine the extent of the problem. To deal with the situation, the board has approved a balanced budget for the first time and is phasing out some jobs on the organization. In addition, the board has also corrected the initial announcement (premature and non-official) that a charge of 60% would be levied on all BASS account expenditures, noting that it was only an option under consideration. The charge to be levied will be 30% on deposits made after October 21, 2015.

Approval of Minutes

Officer/Chair/Task Force Reports and Updates

Program Chair (Anne Rauh). Last minute reminders about the banquet. Encouragement to those who can to attend the ASEE "strategic doing" session.

Secretary/Treasurer (Craig Beard). Comments on the published treasurer's report, noting that ASEE had failed to transfer funds from the division to cover costs incurred for the 2014 conference.

Accreditation and Standards (Diana Wheeler). Julie Arendt will complete Diana's term. David Hubbard reported on the ABET visit survey. Participation was only 10%, so he will send a note to the division members to encourage more participation.

Archivist (vacant).

Awards (Alice Trussell). No nominations were submitted for the Innovation in Access to Engineering Information Award or the Homer Bernhardt Distinguished Service Award, and there were no posters.

Bylaws Review (Amy Van Epps). No update. Awaiting action by Executive Committee.

ELD Business Meeting *(Continued...)*

Development (Amy Buhler). No update. Amy encouraged all division members to go to the exhibit hall and thank all of our sponsors.

Duplicates/Exchange List (Linda Yamamoto, not present). No report.

Electronic Discussion Lists (Mel DeSart). No update.

Liaison Program (vacant). No report.

Membership (Dave Schmitt). No report.

Membership Directory (Bernadette Ewen). Bernadette requested that all members update their information on the copy of the directory circulating at the meeting.

Mentoring (Kevin Drees). No update.

Newsletter (Jim Van Fleet). Jim acknowledged the editorial board for their work, and called for another member to serve on the board. He also officially 'passed the baton' to incoming editor, Lee Cummings.

Nominating (Bob Heyer-Gray). Bob, for Adriana Popescu, offered thanks to the candidates and noted that 30% of the membership voted. Commented that some nominees declined due to increased conference fees and inability to attend annual conference.

Publications (Scott Curtis, not present). No report.

Scholarly Communication (Mel DeSart). Robyn Rosenberg will assume the position of Chair.

Webmaster (Julie Cook). No update. Reminder to send presentations for the ELD website.

Old Business

None.

New Business

None.

Awards (Alice Trussell)

The Best Publication Award was presented to Michael Fosmire and David Radcliffe for *Integrating Information into the Engineering Design Process*, published by Purdue University Press. A librarian who nominated the book stated this: "It has been indispensable for me this year. I am a relatively new engineering librarian and this book helped me greatly in understanding the needs of engineers when they are undertaking their capstone projects. It also was very helpful to me when preparing workshops for students. Although I've had the book for less than year, it is already well worn from constantly reading and rereading it." A member of the Awards Committee commented, "I don't know of any other book like this. I know I'll be referring to it often in my own instruction work, and referring engineering faculty to it."

ELD Business Meeting *(Continued...)*

Travel Stipends

Winners for next year's Morgan & Claypool conference travel stipends were selected by drawing. The first two receive stipends, the next three are runners up:

Mark Mounts
Linette Koren
Margaret Willis
Megan Sapp Nelson
Jaquelina Alvarez

Award Photo Shoot

Adjournment at 10:15 a.m.

Minutes submitted by Craig W. Beard.

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Conference Reports, Seattle 2015

ASEE 2015 Annual Conference, Seattle, WA
Engineering Libraries Division (ELD) Conference Summary
David E. Hubbard

Prior to the official start of the ELD program, approximately 70 ELD members met at the Seattle Public Library on Sunday June 14th (9am-3pm) for an Unconference. The agenda was set in the morning and a variety of topics relevant to the profession were discussed (e.g., data, dissertation embargo, recruitment, etc.). Bob Schwarzwalder presented on Stanford's EarthWorks before members broke out into groups to discuss the various topics. The groups reconvened and shared insights from the discussions. During lunch, Mike White presented a brief history of ELD highlighting various milestones. The afternoon focused on ASEE-ELD relations - and more specifically - "What do we want our organization of engineering librarians and information professionals to be?" Tricider, a web-application for group brainstorming, was used to share, capture, discuss, and vote on various ideas regarding our future as a professional organization. Tricider remained open until June 26th for additional comment. A continental breakfast was provided by SPIE.

As in previous years, ELD participated in the ASEE Division Mixer on Sunday afternoon. The ELD table for the event was organized by Kari Kozak. The table featured a wishing wall activity where attendees responded by posting sticky notes to a tri-fold poster with their thoughts on libraries. There were many great conversations with ASEE members during the event, as well as positive and entertaining responses to the question. The ASEE Division Mixer was followed by the opening of the Exhibit Hall and Welcome Reception. Sunday evening concluded with the ELD Dessert Reception at the W Hotel sponsored by the SPIE.

For the sake of brevity and to improve readability, only the presenting authors are listed below. If any of the following piques your interest, be sure to take a look at the PowerPoints posted on the ELD website or the full papers in ASEE PEER (https://peer.asee.org/) for more details.

The ELD program opened Monday with the ELD Welcome Session and Lightning Talks. The session was moderated by Kari Kozak and included 21 3-minute lightning talks. The topics were wide-ranging, though outreach, instruction, and data were common themes. The program began with Mel DeSart presenting on the Highlights of the ACRL STS, ACRL EBSS, and ASEE ELD Scholarly Communication Survey Results. The survey found that the majority (51%) of those surveyed only spend 1-5% of their time in support of their institution's scholarly communication activities despite ranking it within the top five job responsibilities. Compared to STS and EBSS, ELD respondents reported spending less time in support of scholarly communication services. The other 20 talks were just as interesting and the slides can be found at the ELD website: http://depts.washington.edu/englib/eld/conf/conf2015.php. The session and lunch were sponsored by IET and IOP.

Fifty Shades of Grey Literature was moderated by James Van Fleet. Chelsea Leachman presented on how grey literature and standards are taught and assessed in a mechanical engineering experimental design course, which utilized a worksheet to assess types of sources used. Mike White then presented on using databases to track patent citations. One key point was to search multi-national patent databases since limiting to just a single national database will skew your results. Chelsea Leachman returned to the podium and presented a two-part study that examined the use of standards in a mechanical engineering capstone design course and surveyed industry sponsors about their use of standards. One of the main findings was the need to spend more time explaining why standards exist, how they are created, and ways to access standards outside of academia. The session was sponsored by ICE.

Monday concluded with the ELD Welcome held at the Seattle Art Museum, which was followed by an after party at the Pike Pub & Brewery. Both events were sponsored by IEEE and provided great opportunities to chat with colleagues old and new.

Conference Reports *(Continued...)*

Tuesday began early with a 7:00am session moderated by Bernadette Ewen on Delivering Value in Publishing and Scholarship. The session and breakfast were sponsored by SAE. Michelle Spence, Amber Saundry, and Sarah Jane Dooley presented a study that examined civil and mechanical engineering journal/conference holdings at four Canadian universities based on faculty publications. The authors reported that each of the institutions were collecting at least 80% of the titles, but saw opportunities to collect more engineering conference proceedings and possibly journals outside engineering to support their respective departments. Andrew Rose discussed the use of the Thornburgh Archives at the University of Pittsburgh to explore changes in dam safety and associated public policy. His conclusions emphasized how primary sources of public officials could be used to study legal aspects of engineering projects, as well as build case studies for students. David Hubbard reported on a study that quantified and characterized gold open access engineering journal publishing locally and at 25 other U.S. engineering universities. One of the main findings was that engineering faculty are publishing in open access journals, though not necessarily open access engineering journals. Daniela Solomon reported on using the Sci2 Tool to visualize bibliometric data, specifically co-author and co-citation networks, for civil engineering department publications. The author concluded that the additional insights gained by visualizing the bibliometric data outweighed the challenges encountered.

The ELD business meeting followed immediately after the 7:00am session. The business meeting minutes are provided elsewhere in the newsletter, so only a few items regarding awards will be mentioned here. The 2015 Best Publication Award was presented to Michael Fosmire and David Radcliffe for their book titled *Integrating Information into the Engineering Design Process* published by Purdue University Press. The book included contributions from several other ELD members: Jay Bhatt, Jon Jeffryes, Megan Sapp Nelson, and Amy Van Epps. The ebook version is freely available to view and download at http://docs.lib.purdue.edu/purduepress_ ebooks/31/. The Homer I. Bernhardt Distinguished Service Award and the Innovation in Access to Engineering Information Award were not awarded this year. The Awards Committee encouraged more nominations for both awards in the future.

The Human Element of Librarianship session was moderated by Alice Trussell. Sara Samuel presented a study that used and compared three rubrics, including the IMLS-funded Data management plan as A Research Tool (DART), to examine data management plans (DMPs) in NSF grants. The authors found the lack of metadata standards/schemas to be one of the major weaknesses of DMPs examined. Angela Henshilwood and Michelle Spence reported on mentoring at the University of Toronto Libraries (UTL). The presentation discussed mentoring iSchool graduate students working at UTL, as well as librarians receiving informal peer mentoring (e.g., Mentoring Interest Group, co-teaching, etc.). In 2014, John Napp reprised his 2002 survey of library services at Engineering News Record Top 500 Design Firms. He found that few firms have librarians or access to databases and suggested the need to educate students on how to effectively locate information beyond subscription databases (e.g., Google, local library, etc.). Bertha Chang and Honora Eskridge summarized lessons learned over five years of focus groups, surveys, and observations of library users before and after constructing the Hunt Library. The major themes that emerged were: functionality, practicality, and efficiency. The authors concluded that balancing the space (solo/group, quiet/noisy, etc.) was the best approach and that having technology that works as well as what students own was also important. The session was sponsored by ASME.

Sarah Lester moderated a panel discussion on Digitization of Engineering Content, where panelists each discussed novel digitization projects at their respective institutions. Doug McGee from Penn presented on the digitization of undergraduate capstone project reports in chemical and biomolecular engineering. Currently all submittals to the Penn library are digital, and users worldwide have downloaded from the site. Kristin Buxton of CalTech presented on the need to digitize local technical reports and reprints after recovering from a minor flood. The CalTechAuthors repository now holds over 45,000 research papers from faculty and other members of the campus community. Digitizing the DukEngineer was presented by Melanie Sturgeon. Issues of Duke's student run publication DukEngineer had previously been held outside the library in less-than-ideal conditions, but the publication's 75th anniversary gave the library an opportunity to work with outside partners and digitize the important historical collection.

Conference Reports *(Continued...)*

The final presenter was Sarah Lester of Stanford, whose digitization project with a mechanical engineering graduate product design course has provided additional support for current and future research. Each of the panelists discussed the challenges and lessons learned from their projects, and engaged in Q&A with the attendees. The session was sponsored by Begell House.

Tuesday concluded with the ELD Annual Banquet at Blueacre Seafood. The event was organized by Jon Jeffryes and sponsored by Elsevier. After a few words from Bruce Cary (Elsevier, Product Sales Manager) and Steve Petric (Elsevier, Director of Product Development), Anne Rauh distributed tokens of appreciation to those that moderated sessions and assisted with ELD conference programing. Everybody then settled in for a delicious dinner and great conversation.

Wednesday began with another 7:00am session and early risers were rewarded with breakfast. "Reimagining Engineering Information Literacy" was sponsored by ProQuest and Greg Tourino moderated. Amy Van Epps reported on the use of digital badges in Purdue's College of Technology competency-based degree program and the librarian's role in creating/facilitating an information literacy badge for a first-year course. Laura Robinson Hanlan presented a qualitative study of undergraduate STEM teams engaged in global project-based learning. One of the main findings was that the sources used by their students remained about the same over the last 12 years and did not correlate with what faculty thought were important. Marian Armour Gemmen and Dr. Farshid Zabihian discussed West Virginia University's Information Literacy Course Enhancement Program and how information literacy was integrated into a mechanical engineering capstone project. Margaret Phillips and Jennifer Sams reported on how a junior level mechanical engineering design course was improved through rubrics and practical application of Searching as Strategic Framework (ACRL Framework for Information Literacy).

George Plosker from IEEE moderated a panel discussion titled In-House Marketing of Library Services and Leveraging Vendor Resources. George emphasized the importance of taking advantage of every outreach opportunity, as well has having the confidence in your core body of knowledge. Panelist Jay Bhatt discussed how he has been able to make connections with faculty at Drexel, and in doing so gain a better understanding of faculty and student research needs. Julia Gelfand of UC Irvine also presented on the value of the relationship between librarians and users, and additionally addressed the benefits of reaching out to student groups and societies. And Ryan Bailey of Elsevier discussed how vendor resources can be used to market library resources, with a key element being the ability of the library and its vendors to collaborate. A Q&A with the audience followed.

The final ELD session focused on makerspaces in libraries and was moderated by Brianna Buljung. Amy Buhler presented on a collaboration between the University of Florida's science library and the Society of Women Engineers. The outreach event provided middle school students an opportunity to learn about design and use 3D printers to fabricate nametags; computer logins and student email accounts posed largest challenges. Ben Leduc-Mills reported on a lending program (SparkFun Inventor's Kits, Raspberry Pi Kits, and Makey Makey Kits) at North Carolina State University and a SparkFun partnership. The authors offered several solutions to managing expense, parts tracking, and support/training. Sylvia George-Williams presented on the FabLab at University of Texas at Arlington, focusing on the planning process and space/equipment. Usage of the FabLab exceeded expectations and the FabLab is in the process of expanding from 700 sq. ft. to 8,700 sq. ft. The session and lunch were sponsored by ASME.

Despite the uncertainty of ASEE-ELD's future, I had a good time at the conference and was inspired by many of the great presentations. I'm always in awe of the many projects, initiatives, and overall creativity of ELD members. Many thanks to Anne Rauh, our 2015 Program Chair, and all those who volunteered and attended to make it a great conference!

Looking forward to seeing you in the Big Easy in 2016!

Conference Reports *(Continued...)*

This year ELD put a special emphasis on sponsoring student attendees for conference attendance. One of our guests, Korissa McGlocklin, who received her MLIS from the University of Washington in 2015, provides an interesting perspective on the value of ASEE and ELD for prospective librarians.

Conference Serendipity
Korissa McGlocklin

My grandfather was a civil engineer who worked on many projects in Washington State during his career. When I saw the e-mail about this year's American Society for Engineering Education (ASEE) Conference in Seattle, WA., I thought it would be a great way to connect with my grandfather and talk with him about what's happening in his field now. Unfortunately, he passed suddenly in March. In the wake of my grandfather's funeral, and one day after I graduated from library school at the University of Washington, I was delighted to be surrounded by talented, caring, enthusiastic librarians of the Engineering Libraries Division (ELD) at the Washington Convention Center in downtown Seattle, WA. Your Sara Samuel, Engineering Librarian at Michigan, was my sponsor, thank you Sara! The conference was inspiring, rewarding, and fun.

Sharing is what I think librarians do best; I was pleased to share the SparkFun Electronics website with the K12 librarians I know. Thanks to Purdue, I was introduced to the concept of badging and have signed up for Mozilla Backpack with the intent to write about my badging experience for a professional development article. I was surprised to learn that 80% of engineering firms do not have database access and what the implications of that are, thanks to John Napp of the University of Toledo. The new information literacy framework created by the Association of College and Research Libraries (ACRL) is now on my reading list and I will inquire of my friends who are PhDs about their impact points and encourage them make sure their work has a repository home. Dr. Karl Reid's talk introduced me to identity theory, which I shared with my husband, who is an athletic coach. He can use identity theory to recognize where students of color are at in their readiness to integrate which can affect team building. I enjoy the serendipity and energy of conferences.

Conferences are a treasure house of information and priceless in the way they bring cumulative knowledge together under one roof. I believe that librarianship done well mirrors the communities we serve and I saw that in all of you at the ASEE conference. Everyone who presented had valuable information to share, thank you for taking the time to put together a presentation and more importantly, for the work you did that led to the opportunity to present. I was left at the end wanting to give something to you in return! If there's space in the schedule at the conference in New Orleans next year, I encourage ELD to invite sponsored attendees to give a lightning talk about their pursuits, and how they might bring value to your library family.

I'm thrilled to see the innovative ways information professionals are serving communities and contributing to our discipline in various environments. I wasn't sure where I wanted to be after graduation, and now being in the market for my first post-graduate library job, I'm still not quite sure. As opportunities become available, I apply for positions that speak to me because after all, we spend at least a third of our time engaged with our profession. Being encouraged by those of you who do not have a background in engineering helped me realize, I'm a librarian! If I don't know I'll learn, and if a resource eludes me, I'll reach out to others. I've added engineering positions to my search and have you to thank. No matter where my future library home is, I will remember how welcome you made me feel; I'm cheering for you and encouraging my peers to consider engineering librarianship too. Thanks for a great time!

Special Reports

Visioning Task Force Executive Summary
(For the complete report, please see the email sent over ELD-l on August 03, 2015.)

The charge for the ELD Visioning Committee stated that its mission was "to develop a series of alternative visions for the future of Engineering Libraries Division," and the committee sought to develop these alternative visions through a survey of ELD membership and a tricider decision making tool. While not exhaustively analyzed in this summary due to space considerations, the Visioning Committee can report that their work has revealed the following five organizational options for ELD:

> Stay with ASEE (13 pros / 11 cons)
> Become Independent Organization (13 pros / 12 cons)
> Piggyback on another Existing Organization (11 pros / 11 cons)
> Become Virtual Organization (11 pros / 12 cons)
> Piggyback on ASEE Annual Meeting (10 pros / 6 cons / 1 unknown)

These options and the corresponding pros/cons were pulled from the tricider survey results, discussions at the ELD unconference associated with the 2015 ASEE annual conference, email postings on ELD-L, and content gleaned from individual conversations with ELD members. The Visioning Committee would like the pros/cons spreadsheet to be considered a working document and does not presume that the lists are exhaustive. Others may offer additional pros or cons that readily, and quite justifiably, could be added to those we have provided here.

Upon review, any decision on a future direction for the Engineering Libraries Division should not be based upon a simple accounting of the number of pros and cons from our work, as it became clear to us that not all pros or cons carried an equal weight. For example, affordability was mentioned frequently in the discussion, and the affordability of the various options listed can vary greatly in both concrete terms and in individuals' perceptions. Other similar examples can be discerned by consideration of the survey spreadsheet and tricider report.

We were encouraged by our ability to identify factors that most members valued in common about their membership in ELD (pros), as well as a group of common shortcomings (cons) resulting from an organizational change. For instance, the tricider results indicate that one of the things respondents valued most are the the email discussions lists currently associated with ELD. Because those lists were established independently of ASEE, they can be listed as pros in all five options. Other pros common to at least four out of five options include: networking in person, control of publications and peer review, less bureaucracy, and more cost effective options. Common cons include: the need to establish credibility, loss of the Bernhardt award, inability to take our existing funding with us, and potentially weakening the peer relationship with faculty and administrators. None of these factors was universally reported across all future models, pro or con, however.

No model is perfect - all have pluses and minuses. There is no definitively "right" answer or option, and the committee report does not provide data that would effectively eliminate any of the five options considered. Every ELD member should evaluate and consider these lists of pros and cons and determine for themselves which option they believe is best moving forward, in particular for them as individuals, and for the engineering librarian community as a whole.

ELD Visioning Task Force
John Napp
Laura Robinson Hanlan
Mel DeSart
Melanie Sturgeon
Michael White
Scott Curtis
Megan Sapp Nelson, Chair
07/31/2015

Special Reports *(Continued...)*

Response to Proposed ABET Accreditation Criteria

(Submitted June 30, 2015)

The ASEE Engineering Libraries Division has concerns and is troubled by the proposed changes to ABET Criterion 3. The National Academy of Engineering's *The Engineer of 2020* (NAE, 2004) specifically mentions the importance of life-long learning, multidisciplinary teams, and broader societal contexts. These aspects have been removed and deemphasized in the proposed changes.

In addition to the above, there is consensus among several international accords - Washington Accord, Sydney Accord, and Dublin Accord - regarding "Graduate Attributes and Professional Competencies" for engineers (IEA, 2013). Under the Knowledge Profile the Washington Accord specifies "Engagement with selected knowledge in the research literature of the discipline" (IEA, 2013, p. 9). Under the Graduate Attribute Profile the Washington Accord indicates that a graduate should be able to "Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences" (IEA, 2013, p. 10).

In consideration of the above, the ASEE Engineering Libraries Division recommends:

1. Retain Criterion 3d - an ability to function on multidisciplinary teams.

2. Retain Criteria 3h - the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

3. Retain Criterion 3i - a recognition of the need for, and an ability to engage in life-long learning.

4. Add an outcome(s) focusing on an ability to identify, evaluate, manage and ethically apply the information necessary to conduct engineering research and solve engineering problems.

We appreciate the opportunity to comment and your consideration.

Anne Rauh

ASEE Engineering Libraries Division, Chair

Syracuse University

Craig Beard

ASEE Engineering Libraries Division, Program Chair and Chair Elect

University of Alabama at Birmingham

Julie Arendt

ASEE Engineering Libraries Division, Accreditation and Standards, Committee Chair

Virginia Commonwealth University

References

International Engineering Alliance (IEA) (2013). Graduate attributes and professional competencies Version 3. Retrieved from http://www.ieagreements.org/IEA-Grad-Attr-Prof-Competencies.pdf

National Academy of Engineering (NAE) (2004). *The Engineer of 2020: Visions of Engineering in the New Century*. Retrieved from http://www.nap.edu/catalog/10999.html

Call for Papers, New Orleans 2016
Craig Beard

The Engineering Libraries Division (ELD) seeks papers for the 2016 Annual Conference and Exposition to be held in New Orleans, LA, June 26 to June 29. Librarians and educators from around the world are encouraged to submit papers. Topics of interest include, but are not limited to:

- Data literacy for undergraduates through faculty

- Recruiting, training, and retaining new engineering librarians

- Basics of engineering librarianship for new librarians

- Mid-career development for librarians

- Evaluating new resources for librarians and engineering faculty

- Marketing and outreach activities (to students, faculty, and other constituencies)

- Impact of the ACRL Framework

- Impact of changes in ABET criteria

- Planning STEM libraries

- Maker spaces (more to be said)

If you are involved in innovative services or research outside these areas, please submit an abstract.

Abstracts and draft papers are reviewed using a double-blind process, and thus are to be submitted with no information identifying author(s) or institutional affiliation(s). Abstracts and papers will be judged on the basis of relevance to the division, quality of research and writing, and potential to engage conference participants.

Author's Kit (including abstract and paper formatting guidelines), Plagiarism Guidelines, and Deadlines are available on the ASEE Annual Conference website (http://www.asee.org/conferences-and-events/conferences/annual-conference/2016/papers-management/for-authors). All submissions are expected to meet deadlines and adhere to specified requirements.

For updates on deadlines and the submission process, check Annual Conference Information on the ELD website (http://depts.washington.edu/englib/eld/).

Some important dates for authors to keep in mind are:

- September 1: abstract submission open

- October 19: abstract submission closed

- November 9: acceptance or rejection of abstracts

- February 1: draft paper submission closed

- March 7: requested revisions to authors

- March 21: requested revisions deadline

- March 28: acceptance or rejection of papers

- May 2: final paper upload (with blind indicators replaced by author or affiliation information)

Questions? Contact me at cwb@uab.edu.

Craig W. Beard, 2015-2016 Program Chair

Call for Nominations

Megan Sapp Nelson

Call for Nominations – Secretary/Treasurer and Director

The ELD Nominating Committee is looking for members willing to run for one of the two elected positions within ELD: Secretary/Treasurer, or Director. The slate of candidates will be presented in late February 2015 and the election will be held a few weeks later in March. 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. If you are considering running for office, here are a few facts to consider.

Four Year Officer Track

The person elected to Secretary/Treasurer position is committing to a four-year officer track within ELD. Progression from office to office is annual and automatic. The Secretary/Treasurer moves on to be the Program Chair in their 2nd year, the Division Chair in their 3rd year, and the Past Chair/Nominating Committee Chair in their 4th year. The first three of those four positions include service on the Executive Committee (EC), the primary governing body of ELD, as well as on the Extended Executive Committee (EEC). The Past Chair is a member of the EEC, but not the EC. The person elected as Secretary/Treasurer this Spring will assume office as of the end of next summer's conference in Seattle, Washington and will serve in this office through the 2016 conference in New Orleans, Louisiana, then will serve as Program Chair and plan the 2017 conference in Columbus, Ohio.

Two Year Director Track

The second position is one of two Directors. The directorship is a two-year commitment. In the first year the Director organizes the ELD welcome reception. In year two the Director organizes the annual banquet. The person elected Director next spring will organize the welcome reception in 2016 in New Orleans and the annual banquet in 2017 in Columbus, Ohio. The Director is a member of the EC and the EEC during their entire term. Complete descriptions of the roles and duties of ELD officers are available in Article IV of the Bylaws posted at http://depts.washington.edu/englib/eld/bylaws/index.php.

Additional information about specific responsibilities is available on the ELD wiki under Division Policies and Manuals. Most ELD members who have served in these positions would be happy to discuss their experiences with potential candidates. Please see the list of past chairs and past directors for their names.

I encourage you to look at the opportunities presented by serving as an officer, as well as the commitments that are required, and consider running for either Secretary/Treasurer or Director. Many ELD members have served in these positions and are more than willing to help new officers succeed. If you decide to embark on this journey, be assured that you will not be alone, as ELD has a solid support system and a very deep bench of leaders. Please let us know if you are interested in running for office, if you want to suggest someone else who you think would make a good officer, or if you have any questions. Self-nominations are both encouraged and accepted. To contact the Nominating Committee with nominations, self-nominations or questions, please email eld-nominations@u.washington.edu.

Megan Sapp Nelson, ELD Nominating Committee

Committee Reports

Membership Directory Update

August 2015 ASEE ELD Directory of Members - Now Available!

The ASEE ELD Directory of Members is current as of August 13, 2015. You may download a PDF copy of it from http://depts.washington.edu/englib/eld/secure/2015DirAugust.pdf. The password to open the directory is [see email sent to eld-l August 14, 2015]. A non-password protected copy of the Directory will be e-mailed to current ELD members upon request.

If your contact information has recently changed, and if you wish to have these changes reflected in the ASEE ELD Directory of Members, please e-mail your most recent contact information to ewen@rose-hulman.edu.

Thank you to David Schmitt (Membership Chair), Mel DeSart (Electronic Discussion Lists Chair), Julie Cook (Webmaster), and all other members who provided me with current contact information.

IMPORTANT: Access to the ELD Membership Directory is a benefit of ELD membership. The address and password used to access the Directory and the information contained in the Directory should not be reproduced, copied, forwarded, edited, sold, or distributed. We value both your privacy and the privacy of everyone else listed in the Directory.

Kind regards,

Bernadette Ewen
ASEE ELD Membership Directory Chair

Mentoring Committee Update

The Mentoring Committee welcomes a new academic year. The committee will survey to the ELD membership regarding the interests of our members – First by telling the membership a little about what the Mentoring Committee does, and obtain from the ELD body-at-large ideas of what the Mentoring Committee should be doing. One service under contemplation is to provide live-online webinars on topics of interest, specific to the practice of the engineering librarian profession. Some webinar topics you might be interested in include learning new skills, transitioning into new positions, and shedding tasks that could be automated or performed at the staff level. Making better use of your in-house resources such as students, staff; managing stress and performing at a higher level are valuable outcomes that you might be interested in as well. Negotiating with vendors of various products such as technical standards, or bulk chemical price information may be a skill/ability that you'd like to develop. Simply by having ELD folks sharing their ideas and experience in whatever form a service like this might take, be it a webinar or similar format, might make for a better year for our membership. Stay tuned.

Thanks,

Kevin Drees
Chair, ELD Mentoring Committee
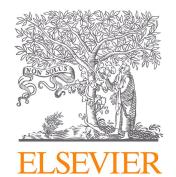
ELD Sponsor Organizations

Thank you to all of our sponsors at Seattle, 2015

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

Lori Townsend. I work at the University Libraries, University of New Mexico as the Learning Services Coordinator and the Engineering Librarian. Previously, I was the subject librarian for a few social sciences departments, but then our Engineering Librarian left UNM for Dartmouth. Engineering librarianship is a bit scary for me but ELD's online resources have already been a great help. I'm looking forward to getting to know folks!

I've been at UNM for 5 years and have been the Learning Services Coordinator for 2.5 years. I've been the Engineering Librarian for about 2 months (yikes!) Prior to UNM, I was the Electronic Collections librarian at Cal State East Bay from 2005-2010. I have a BA in History from the University of New Mexico and my MLIS from San Jose State University. Outside of work, I'm an Airbnb host in Albuquerque and a fan of sci-fi/fantasy (both reading and watching).

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

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Members: Julie Cook, Mel DeSart, Lisa Dunn, Bob Heyer-Gray, Kari Kozak, Ibironke Lawal, Stephen Stich, Larry Thompson, Amy Van Epps

Duplicates Exchange
The Engineering Dup/Ex list is now a list operated independently of ELD. If you wish to be added to the list, you can send a request to list coordinator Linda Yamamoto at:linda.yamamoto(at)gmail.com

Electronic Discussion Lists
Mel DeSart, 2013-2015
desart(at)uw.edu

Member: Craig Beard

Membership
Dave Schmitt, 2014-2016
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Members: James Bierman, Susan Boyd, James Clasper, Scott Curtis, Bette Finn, Norma Godavari, Pauline Melgoza

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