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ALA Annual Conference 2015
Schedule for STS

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<tr>
<td>Council I</td>
<td>6/26</td>
<td>7:00–9:00pm</td>
<td>HIL-Imperial Ballroom</td>
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<tr>
<td>All-Committees Meetings</td>
<td>6/27</td>
<td>8:30–10:00am</td>
<td>HIL-Imperial A</td>
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<tr>
<td>College Science Librarians Discussion Group</td>
<td>6/27</td>
<td>10:30–11:30am</td>
<td>HIL-Golden Gate 1</td>
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<tr>
<td>Federal Science Agencies Update</td>
<td>6/27</td>
<td>1:00–2:30pm</td>
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<tr>
<td>Conference Program Planning 2016</td>
<td>6/27</td>
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<td>Publisher/Vendor Relations Discussion Group</td>
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<td>4:30–5:30pm</td>
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<td>General Membership Meeting &amp; Breakfast</td>
<td>6/28</td>
<td>8:30–10:00am</td>
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<td>Hot Topics Discussion Group</td>
<td>6/28</td>
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<tr>
<td>Science and Technology Library Research Forum</td>
<td>6/28</td>
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<tr>
<td>All Task Force Meetings</td>
<td>6/28</td>
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<td>HIL-Union Square 01 &amp; 02</td>
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<tr>
<td>STS Dinner: ThirstyBear Brewing Company</td>
<td>6/28</td>
<td>6:00–9:00pm</td>
<td>661 Howard Street</td>
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<td>STS Program: Unlocking the Sciences</td>
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<td>8:30–10:00am</td>
<td>MCC-2014 (W)</td>
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<tr>
<td>STS Poster Session</td>
<td>6/29</td>
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<td>MCC-2016 (W)</td>
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<td>Council II</td>
<td>6/29</td>
<td>7:00–9:00pm</td>
<td>HIL-Continental 5</td>
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Greetings!

It is hard to believe that just a few short months have passed since the snowy Midwinter Meeting in Chicago. Despite the weather, meetings and sessions were all well attended. Many of us also enjoyed the STS Dinner at Howells & Hood sponsored by IOP and delightfully organized by Annie Zeidman-Karpinski.

This has been a very busy year for STS, especially as we worked to help support ACRL celebrate the 75th Anniversary of the organization. STS raised enough in member donations to sponsor two scholarships for STS members to attend the ACRL Conference in Portland last March. I am pleased to report that the recipients were Greg Nelson, Chemical and Life Sciences Librarian at Brigham Young University, and Donna Ohora, Public Services Librarian at the University of Hawaii at Hilo. As always, it is so rewarding to see STS working together to support each other professionally.

We also sponsored an Emerging Leader again this year selected by the Awards Committee. This award went to Crystal Boyce, a Sciences Librarian at the Illinois Wesleyan University. She was profiled earlier this spring in ACRL Insider at http://www.acrl.ala.org/acrlinsider/archives/9766.

The Membership and Recruitment Committee, co-chaired by Rachel Hamelers and Jeanne Hoover, debuted a new feature on STS-L highlighting the co-chairs of each STS committee. These interviews showed the kind of work each committee did to help both new and returning members volunteer for the committee or committees that suited them best. This new strategy was hugely successful, attracting a deluge of new volunteers and interest from other ACRL sections for advice on how they could do it, too.

ALA Annual in San Francisco, a perennially favorite conference location, is just around the corner. Once again, we have an exciting schedule of events for members, and I hope that you can join us. To list just a few highlights, Sunday night we have our member dinner at the ThirstyBear. Member-at-Large Moriana Garcia recently sent out information on STS-L about cost, registration, and menu. Sunday afternoon is the Research Forum, featuring three papers: “Information, Technology, And Collaborative Needs Of Interdisciplinary Scholars: A Study Of Video Game Research And Instruction” by Shannon L. Farrell, Amy E. Neeser, and Carolyn Bishop of the University of Minnesota Libraries; “Using Classroom Assessment to Determine Student Cognitive Development Levels” by Lia Vella of the Colorado School of Mines; and “Faculty Assessment of Journals” by David Dror of the University of Illinois at Chicago.

Our Monday program, organized by co-chairs Jeffra Bussman and Sara Gonzalez, is entitled, “Unlocking the Sciences: Collaborative Research with Community Engagement Through Citizen Science.” It is co-sponsored by the Health Science Interest Group and the ACRL Instruction Section. Speakers will be Debbie Currie of NC State, Eileen Harrington of the University of Shady Grove, and Dr. Andrew Westphal, Project Director of Stardust@home. It will be immediately followed by our Poster Session. More details on the locations and program and poster descriptions are featured in this issue, as well as on STS-L and the ALA Online Scheduler.

I want to end with a note of recognition to the many people that keep STS vibrant and moving forward. Foremost, I want to thank all of the STS members, as well as the chairs of STS Committees. Volunteering your time and energy keeps the section humming (Continued on page 3).
You will soon receive an invitation from the STS Continuing Education Committee to complete an online survey. The STS Continuing Education Committee periodically surveys the STS membership to gather information about members’ continuing education needs and interests. The committee will use this information to update the Continuing Education webpage, plan programming during the Midwinter and Annual meetings, and disseminate relevant information to the STS email list. The survey will take approximately 10 minutes of your time. Survey results will be posted to the STS Continuing Education page:

http://www.ala.org/acrl/sts/acrl stsce

In Memoriam: John Hunter

John Hunter, Science & Engineering Librarian at Rice University’s Fondren Library and longtime STS member, passed away on November 29, 2014. During his 38-year career primarily at Rice University, he became well-known as a mentor to African-American students, a committed information provider, and a friendly face to so many STS members. The American Library Association formally recognized his contributions, influence, and honor among the entire library community with a memorial resolution passed at the 2015 Midwinter Meeting:

What to Expect from the STS Program at ALA Annual 2015
by Jeffra D. Bussmann and Sara Gonzalez, Co-Chairs

The STS Program Planning Committee has been working diligently on preparing the STS Program for the 2015 ALA Annual Conference. We are excited to share with you a preliminary look at the STS Program titled, “Unlocking the Sciences: Collaborative Research with Community Engagement through Citizen Science.” Citizen science is considered the practice of non-experts contributing to or engaging in scientific research across all disciplines. The program will highlight a panel comprised of a scientists and two librarians, who present will various citizen science projects and discuss how libraries can become involved and support these initiatives.

Our invited panelists are Debbie Currie (MLIS), Eileen Harrington (MA, MES), and Andrew Westphal (PhD). Ms. Currie is a science librarian at North Carolina State University Libraries and will draw from her experience with NC State Dunn Lab’s “Your Wild Life” program. Ms. Harrington is a science librarian at Universities at Shady Grove and will describe her experiences at the California Academy of Sciences and a recent book chapter she published on citizen science projects. Dr. Westphal is research physicist at UC Berkeley and will elaborate on his experience with the Stardust citizen science project.

For academic libraries, citizen science promotes science and information literacy among students and connects community members with researchers to bring about new discoveries. In particular, the committee believes that academic libraries are in a unique position to:

- Educate citizen scientists. Citizen science projects hone science literacy skills in observing, inferring, graphing, predicting, and making sense of the collected data. These proficiencies align with the mission of academic libraries in promoting and providing tools and resources to master scientific and information literacy.

- Facilitate citizen science projects. As intellectual hubs, academic libraries often provide data curation services, Internet access, technology training, and other citizen science resources for faculty and researchers. Because many citizen scientists lack access to research materials provided by academic institutions, academic libraries can further citizen science by encouraging open access initiatives.

The learning outcomes for the attendees of this year’s STS program are: to articulate what citizen science is in order to support projects and recognize partnering opportunities within your communities; to understand the value of citizen science in order to become involved in the open dissemination of citizen collected data; and to discover ways to support your community’s participation in citizen science in order to advance learning opportunities and information literacy objectives.

The committee hopes to meet you there!

Monday, June 29, 8:30-10:30am. MCC-2014 (W).
STS Poster Session

Monday, June 29
10:30am to 11:30am
MCC-2016 (W)

Predictable Popularity? Examining Science Dissertation Citations for Trends and Patterns
Tina Franks and Daniel Dotson
The Ohio State University

More, Less, Love @ My Library: Surveying library users for service and space planning
Li Zhang and Tasha Madison
University of Saskatchewan

STS Research Agenda
Andrea Baruzzi
Princeton University

Undergraduate Student Research Projects in the Library: BiblioTech Labs at Carnegie Mellon University
Matthew R. Marsteller
Carnegie Mellon University

Active and Flipped: Introducing First Semester Biology Students to Scientific Communication
Rachel Hamelers
Muhlenberg College

Outreach and engagement to campus STEM groups using the library’s 3D printer and scanner
Jennifer Horton
Southern Illinois University – Carbondale

Are the Information Literacy Needs of Math Majors Being Met? Librarians Respond!
Jeffra Diane Bussmann
California State University, East Bay

Assessing Student Needs to Redesign a Chemistry Seminar Course
Bonnie L. Fong
Rutgers University – Newark

Open Sesame: Collaboration among Scholarly Communication and Science Librarians in Support of Central Open Access Funds
Donna Braquet
University of Tennessee, Knoxville

Teaching Infographic Source Evaluation to Biology Majors
Patricia Hartman
Auburn University

Connecting Web Usability and Library Instruction in the Sciences: Using a Web Usability Tool to Assess the Effectiveness of Library Instructional Sessions
Eric Snajdr and Yoo Young Lee
Indiana University – Purdue University Indianapolis

Collaborating to Improve Collaboration: Informationist Team Support for an Interdisciplinary Research Group
Margaret Henderson (MLIS, AHIP), John Cyrus, Karen Gau, Julie Arendt, and Martha Roseberry
Virginia Commonwealth University

Thank you to all of our presenters!
Submitted by Greg Nelson, Co-chair, ACRL/STS Research Committee
Faculty Assessment of Journals

The number of journal metrics available has proliferated: IF, eigenfactor, SNIP, IPP, SJR, h-index, and many more. These metrics are often compared to each other, but with the exception of surveys done in specific fields have not recently been compared to other more subjective sources. I am specifically interested in the correlation between faculty opinion and these metrics, and so have gathered data through a survey of faculty from several high research universities (based on the Carnegie classification system) and have 180 responses in a wide variety of scientific fields. Based on these responses I will be trying to determine which of these many metrics correlates best with faculty assessment, and to what degree these metrics do correlate to faculty assessment. As a preliminary analysis I have come across many other interesting pieces of information, including the fact that faculty, on average, seem to consider 10-20 journal titles to be crucial in their field. While analysis is not complete yet, once it is I feel it will gives us a better sense of how the various metrics relate to one of the issues we care about: making sure our patrons feel we are making an effort to have the resources they need. This topic is already fairly charged emotionally, and so will not have a hard time generating discussion.

David Dror
University of Illinois at Chicago

(Continued on page 7)
Using Classroom Assessment to Determine Student Cognitive Development Levels

Hypothesis: Anonymous written feedback collected during classroom assessment activities can be used to characterize students’ cognitive development levels.

Background: Assessment of current information literacy instruction at an engineering university suggests that it is not effective for all students. Cognitive development theory, introduced in 1970 by Perry, was the basis of research at this institution; it identified cognitive levels typical for each class cohort, and the authors recommended incorporating cognitive development theory into instruction to improve graduates’ cognitive positions to a level acceptable in industry (Pavelich & Moore 1996). Gatten (2003), Jackson (2008), and Matteson (2014) suggest ways in which librarians can use cognitive development theory to improve instruction.

Method: After library instruction included as part of a first-year engineering design class, students from 21 different class sections (N=463) submitted "minute papers" identifying “the most important thing they learned” and “what they are left wondering.” Responses to the second question were coded into “low,” “medium” and “high” categories correlated to cognitive stages following a codebook based on the literature and two previous semesters’ worth of student feedback.

Basic Findings: Preliminary analysis suggests that subjects exhibit characteristics in keeping with the range of cognitive levels identified by Pavelich & Moore but that they tend to be weighted toward the lower end of the spectrum. Analyses of results from sections instructed by different librarians found no statistically significant differences.

Conclusions/Implications: This study describes an easy method for identifying general cognitive development levels of student cohorts; this information can be used to improve instructional effectiveness.

Lia Vella
Colorado School of Mines

ACRL News

Host ACRL Scholarly Communication Workshops in 2015

Scholarly Communication: From Understanding to Engagement

To help empower our community in accelerating the transformation of the scholarly communication system, ACRL is pleased to offer the day-long workshop, “Scholarly Communication: From Understanding to Engagement.” The workshop helps participants in very practical ways, such as preparing for library staff or faculty outreach, contextualizing collection development decisions to internal and external stakeholders, and initiating or supporting new models for scholarly communication. Details are available on the ACRL website at www.ala.org/acrl/issues/scholcomm/roadshow.

“The workshop helped me connect complex issues like the relationship between the open movement, copyright, and economics in a coherent way. It is good to have this conceptual framework moving forward.” – Scholarly Communication Workshop

Hosts are responsible for the full cost of the workshop and may choose to recover costs through registration fees.
Join ACRL STS for the 2015 STS Dinner at the ThirstyBear Brewing Co., during the ALA Annual Conference in San Francisco!

**Where:**
ThirstyBear Brewing Company
661 Howard Street
San Francisco, CA 94105
Room: Billar (pool table or dartboards available)

**When:**
Sunday, June 28, 2015
6-9 pm PDT

Register by May 29th. Cost: $27 for the food; cash bar available for drinks and non-alcoholic beverages. Only 45 tickets available. Preference given to STS members. Contact Moriana Garcia <garciam@denison.edu> or Annie Zeidman-Karpinski <annie@uoregon.edu> if you want to add a guest to the waiting list.

Spanish menu "buffet-style"

**Salad**
Ensalada Mixta: Mixed greens, sherry vinaigrette, radish, cucumber, Kalamata olives

**Starters**
Tortilla Española: Mushroom, potato, egg & onion torte w/truffle aioli
Grilled Brocollini: Caper-citrus relish & shaved Manchego

**Entrée**
Gambas al Pil Pil: Shrimp sautéed w/garlic, parsley, white wine & paprika
Albondigas: Roasted meatballs w/sofrito tomato sauce & Manchego
Fideua: Spanish pasta, butternut squash, mushroom, kale, dried cranberries & goat cheese

**Dessert**
Churros: fried dough, cinnamon, sugar, chocolate dipping sauce
About the Signal

STS SIGNAL

We're on the Web!
www.ala.org/acrl/sts

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