



**USAIN**

United States  
Agricultural  
Information  
Network

# 13th Biennial Conference

April 29 - May 2, 2012 | University of Minnesota | Minneapolis, MN

## Soil, Water, Food and Energy:

## Agriculture in an Era of Global Climate Change

scientific, economic, governmental, and international topics  
related to food and agricultural research and education

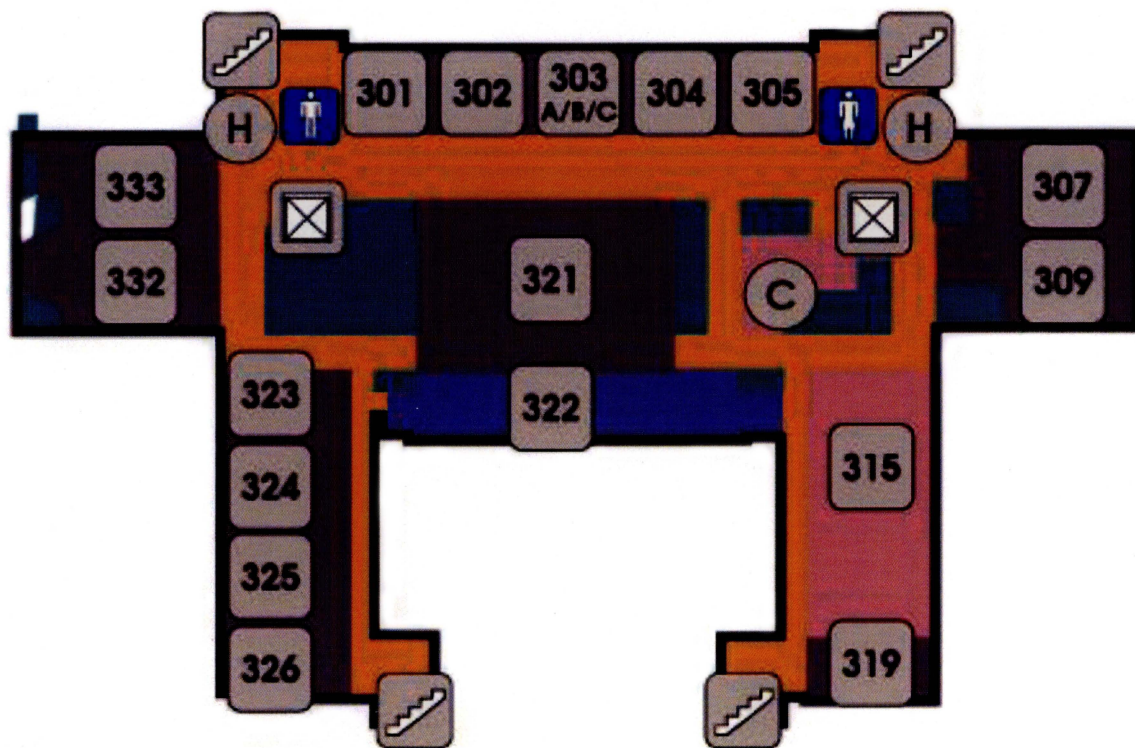


UNIVERSITY OF MINNESOTA

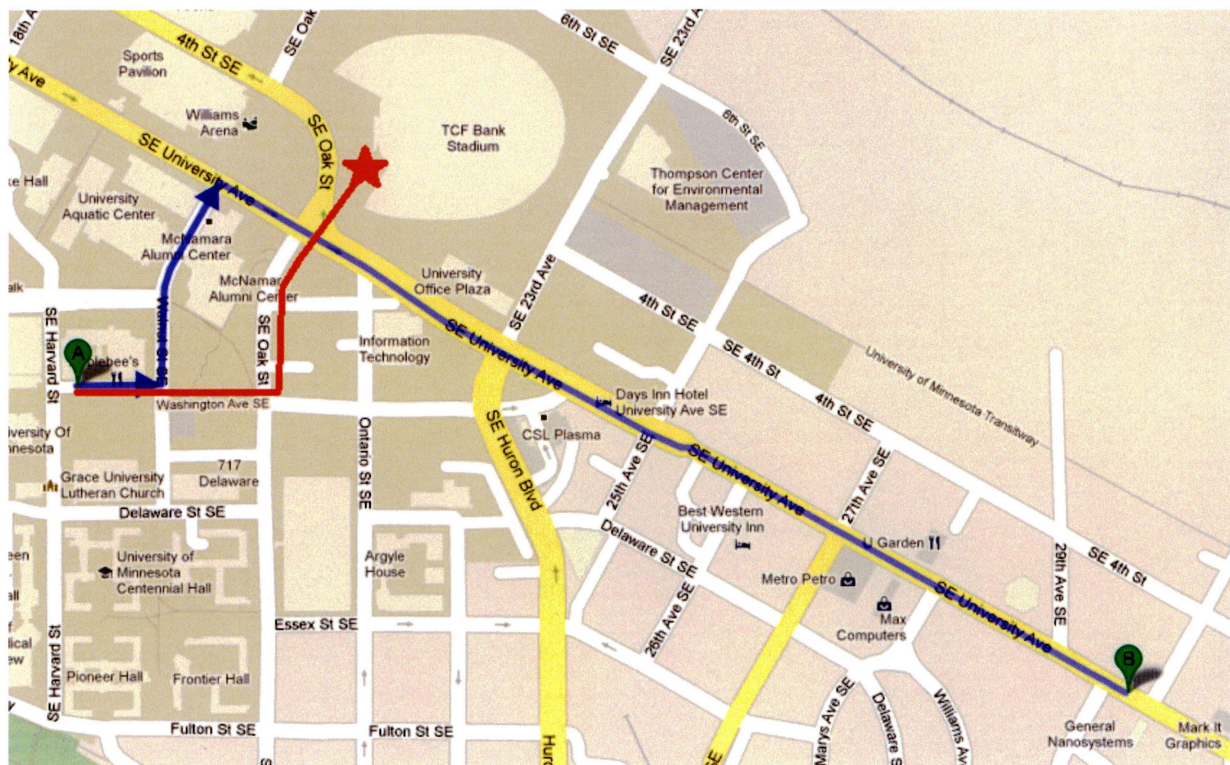
**LIBRARIES**



Coffman Memorial Union (3rd floor)



Directions from University Hotel to Textile Center (blue) and TCF Bank Stadium (red)





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For information about USAIN visit:

<http://usain.org>

Please visit the conference website:

<http://z.umn.edu/usain>

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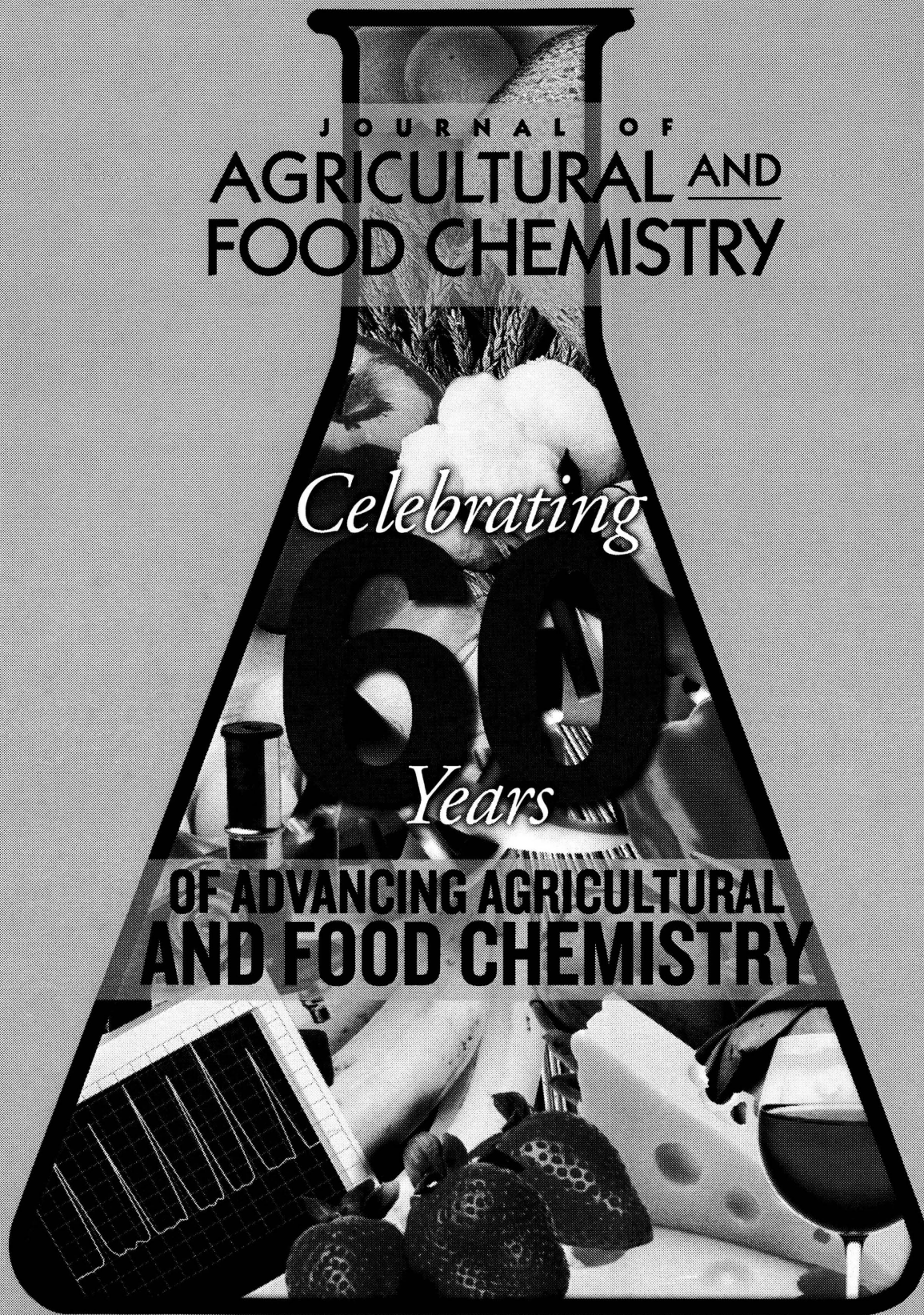


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**Welcome to beautiful Minneapolis and the University of Minnesota for the 13<sup>th</sup> Biennial USAIN Conference!**

USAIN is pleased once again to welcome members and all attendees to what we know will be an outstanding meeting. The conference organizing team, led by Philip Herold, Julie Kelly, and Leslie Delserone, has put together an exciting and interesting program. From tours and outings to timely topical pre-conferences to excellent invited speakers and contributed papers, we can all expect to learn a great deal during the next few days. Many USAIN members and staff of the University of Minnesota have worked very hard to bring you this event, and we want to thank them for their time, energy, and efforts. It takes many people to pull together a major conference like this one, and we are grateful for the work of the full organizing team. Be sure to note in your program the list of all those who worked on the planning committees. The time spent with our colleagues promises to be a learning experience as well. USAIN as an organization brings together librarians and information specialists with a common interest in advancing agricultural and life sciences information in support of national and global food security. That common bond brings us to the conference, motivated to grow in our profession and make a difference in the world. In these days where we do much of our communicating in short electronic bits, the chance to share our expertise and experience, as well as enjoy the camaraderie of being with friends old and new, is also an important part of the USAIN conference experience.

Again, welcome to Minneapolis and best wishes for a productive and enjoyable conference.



Mary Ochs, USAIN President



Eileen Herring, President-Elect



Allison Level, Past-President



## 2012 USAIN Conference Committees

### CONFERENCE PLANNING COMMITTEE

- Leslie Delserone *Program Planning Chair, University of Nebraska–Lincoln*
- Philip Herold *Conference Chair, University of Minnesota*
- Julia Kelly *University of Minnesota*

### CONTRIBUTED PAPERS AND POSTERS COMMITTEE

- Elizabeth Berman *Chair, University of Vermont*
- Noel Kopriva *West Virginia University*
- Jessica Page *The Ohio State University*
- Melody Royster *University of Florida*
- Luti Salisbury *University of Arkansas*

### INVITED SPEAKERS COMMITTEE

- Valrie Minson *Chair, University of Florida*
- Linda Eells *University of Minnesota*
- Amanda Werhane *University of Wisconsin*
- Sarah Williams *University of Illinois at Urbana-Champaign*

### PRE-CONFERENCE PLANNING COMMITTEE

- Florian Diekmann *The Ohio State University*
- Kyrille Goldbeck-DeBose *Chair, Virginia Tech*
- Hope Jansen *CABI*
- Jenny Oleen *Kansas State University*
- Livia Olsen *Kansas State University*

### SPONSORS AND EXHIBITS COMMITTEE

- Constance J. Britton *Chair, The Ohio State University*
- Norma Kobzina *University of California, Berkeley*
- Kristen Mastel *University of Minnesota*

### LOCAL ARRANGEMENTS COMMITTEE

- Kathy Allen *University of Minnesota*
- Julie Kelly *Chair, University of Minnesota*
- Megan Kocher *University of Minnesota*
- Scott Marsalis *University of Minnesota*
- Sarah Morean *Website Designer, University of Minnesota*
- Beth Petsan *University of Minnesota*



## 2012 USAIN Committees

**Committee Chairs**

Awards and Honors.....	Eileen Herring <i>University of Hawaii at Manoa</i>
Budget Task Force .....	Anita M. Ezzo <i>Michigan State University</i>
Bylaws .....	Allison Level <i>Colorado State University</i>
Communications .....	Helen Smith <i>The Pennsylvania State University</i>
Legislative and Government Relations .....	Madeleine Charney <i>University of Massachusetts Amherst</i>
Membership .....	Vacant
Nominations / Elections.....	Allison Level <i>Colorado State University</i>
Preservation and Digital Library .....	Amy L. Paster <i>The Pennsylvania State University</i>

**Interest Group Conveners**

AgNIC .....	Diana Farmer <i>Kansas State University</i>
Animal Health Information .....	Helen Smith <i>The Pennsylvania State University</i> and Cindy Mitchell <i>Colorado State University</i>
Collection Management.....	Jodee L. Kuden <i>University of Alaska Anchorage</i>
International Agriculture Interest Group.....	Patricia Neenan <i>CABI</i> and Leslie M. Delserone <i>University of Nebraska–Lincoln</i>
Social Issues/Rural Information Interest Group .....	Deva Reddy <i>Texas A&amp;M University</i>
Technology Trends Interest Group.....	Peter Fernandez <i>University of Tennessee</i> and Marty Kesselman <i>Rutgers, The State University of New Jersey</i>

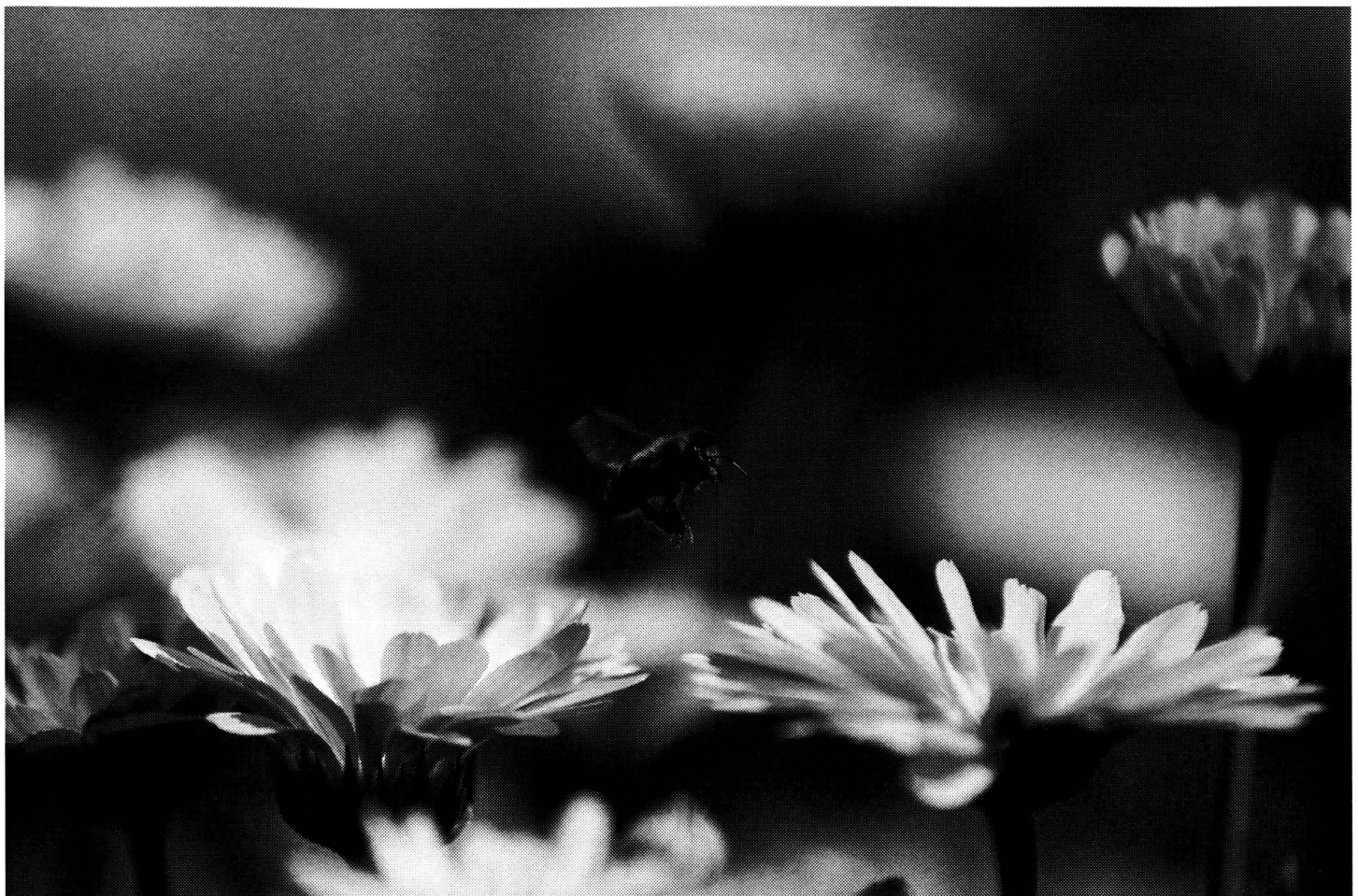


## Executive Council

President.....	Mary Ochs <i>Cornell University</i>
President-Elect.....	Eileen Herring <i>University of Hawaii at Manoa</i>
Past President.....	Allison Level <i>Colorado State University</i>
Secretary-Treasurer .....	Anita M. Ezzo <i>Michigan State University</i>
NAL Representative .....	Christopher Cole <i>National Agricultural Library</i>
Directors, 2010-2012.....	Constance J. Britton <i>The Ohio State University</i> Valrie Minson <i>University of Florida</i> Claudine Jenda <i>Auburn University</i>
Directors, 2011-2013.....	Madeleine Charney <i>University of Massachusetts Amherst</i> Hope Jansen <i>CABI</i> Marianne Stowell Bracke <i>Purdue University</i>

## 2012 Award Recipients

USAID Graduate Student Scholarship.....	Laura Palumbo <i>Rutgers, The State University of New Jersey</i>
USAID Conference Scholarship for New Professionals.....	Shannon L. Farrell <i>Colorado State University</i>
USAID Conference Scholarship for New Professionals.....	Suzanne L. Reinman <i>Oklahoma State University</i>
USAID Service to the Profession Award.....	Nan Hyland <i>Cornell University</i> (posthumously)
USAID Honorary Membership Award .....	Gauri Salokhe <i>Office of Knowledge Exchange, Research and Extension (OEK), Food and Agriculture Organization (FAO) of the United Nations</i>



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# WELCOME TO THIS YEAR'S USAIN CONFERENCE

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## Program Schedule

### *Pre-Conference Activities*

#### **Saturday, April 28, 2012**

2:00pm - 5:00pm      **CABI North American Library Advisory Board Meeting**  
Walter Library Room 101

#### **Sunday, April 29, 2012**

8:00am - 12noon      **USAIN Executive Council Meeting\***  
Walter Library Upson Room (102)

8:00am - 12noon      **Pre-Conference: Collection Management for the 21st Century\*** (panel)  
Walter Library Rooms 314 and 310

Presenters: Monica Moore, Visiting Electronic Resources Librarian, Illinois Wesleyan University  
Connie Stovall, Assistant Professor and Assistant Director for Collection Management, Virginia Tech  
Elaine Westbrook, Associate Dean of Libraries, University of Nebraska-Lincoln

9:00am - 12noon      **Pre-Conference: Getting a Handle on Copyright and Fair Use\*** (panel)  
Walter Library Room 101

Presenters: Brandon Butler, Director of Public Policy Initiatives, Association of Research Libraries  
Marcia Keyser, Coordinator of Copyright Services, Instruction and Reference Librarian, Drake University

*\*Meet in University Hotel Lobby 15 minutes before start time to travel to Walter Library*

12noon - 1:00pm      **Box Lunch** for Executive Council members and pre-conference participants  
Walter Library Room 101

## Local Tours

12:30pm - 5:00pm	Minnesota Twins vs. Kansas City Royals (baseball game) Target Field (meet in Hotel Lobby at 12:30pm for transport to game)
12:30pm - 6:30pm	Minnesota Landscape Arboretum (meet in hotel lobby at 12:30pm for transportation)
5:00pm - 9:00pm	<b>Registration</b> University Hotel  <b>Dinner on-your-own</b> Pick up restaurant guide or sign up for Dine-Arounds hosted by a local member (start at 5:30pm) at registration
7:00pm - 9:00pm	<b>Welcome Reception</b> <i>(Sponsored by ACSESS (Alliance of Crop, Soil, and Environmental Science Societies))</i> University Hotel Humphrey Ballroom Hot & cold hors d'oeuvres; cash bar Music provided by Anthony Ihrig's Almost Acoustic Ensemble



## Conference Activities

### Monday, April 30, 2012

- 7:00am - 12:00pm      **Registration**  
Coffman Mississippi Room (321)
- 7:30am - 8:45am      **Full Breakfast**  
(Sponsored by The Samuel Roberts Noble Foundation)  
Coffman Mississippi Room (321)
- 8:45am - 10:00am      **Opening Session**  
Coffman Mississippi Room (321)
- 8:45am - 9:00am      **Welcome**  
Wendy Lougee, University Librarian, University of Minnesota
- Introduction of Keynote Speaker**  
Philip Herold, USAIN Conference Chair, University of Minnesota
- 9:00am - 10:00am      **Keynote Address** (Sponsored by ProQuest)  
Dr. Kent Cavender-Bares, Institute on the Environment,  
University of Minnesota  
**Today's Crowded and Polarized Online Landscape Requires  
Relevant, Engaging, and Trustworthy Media**
- 10:00am - 10:30am      **Break and Exhibits** (Sponsored by BioOne)  
Coffman Mississippi Room and Lounge (321)
- 10:30am - 11:30am      **Contributed Papers I - Managing and Supporting Data:  
Innovative Curation**  
Moderator: Jessica Page, The Ohio State University  
Coffman Mississippi Room (321)

***Data Under Construction: Data Profiling for a Water Quality Lab***  
Jake Carlson and Marianne Stowell Bracke, Purdue University

***Crop Sciences Data: A Review of Faculty Publications at the University of Illinois***  
Sarah Williams, University of Illinois at Urbana-Champaign

***Dataverse - A Data-Hosting Solution for AgEcon Search***  
Julie Kelly and Amy West, University of Minnesota

11:45am - 1:00pm      **Lunch on your own** (see restaurant handout)

- **JAFI Editorial Board Meeting** (Coffman Union Campus Club, West Wing)
- **Preservation Committee Meeting with Center for Research Libraries representatives**
- **Friends of Tippy Knitting Group** (Visit Depth of Field yarn store: [www.depthoffieldyarn.com](http://www.depthoffieldyarn.com))

1:15pm - 2:30pm      **Contributed Papers II - Curriculum & Instruction for 21st Century Learning**  
*Moderator: Noel Kopriva, West Virginia University*  
 Coffman Mississippi Room (321)

***Creating Meaningful Information Literacy Assignments for an Introductory Agriculture Course***  
 Marianne Stowell Bracke, Purdue University

***Setting Them Up for Success: A Research Skills and Management Course for New Graduate Students in Agriculture and Related Disciplines***  
 Katherine O'Clair, California Polytechnic State University

***Information Literacy, The Canopy View: How to See the Forest and the Trees (panel)***  
 Allison Level, Colorado State University; Marianne Stowell Bracke, Purdue University; and Elizabeth Berman, University of Vermont

2:30pm - 3:00pm      **Break and Exhibits**  
*(Sponsored by University of Minnesota Extension)*  
 Coffman Mississippi Room and Lounge (321)

3:00pm - 3:45pm      **Technology Track** *(Sponsored by Taylor & Francis)*  
*Moderator: Peter Fernandez, University of Tennessee*  
 Coffman Mississippi Room (321)

***Increasing Student Participation with PollEverywhere***  
 Elizabeth Berman, University of Vermont

***Social Media Wrangling: A Comparison of Feed Tools***  
 Kristen Mastel, University of Minnesota

***Creating Customization with Google Forms***  
 Megan Kocher, University of Minnesota

***Mind Mapping with Popplet***  
 Elizabeth Berman, University of Vermont

***From Sprouting Seeds to Growing Minds***  
 Kristen Mastel, University of Minnesota



4:00pm - 5:30pm

**Interest Group Meetings**

***New Strategies for Collection Development in the Animal Sciences***  
 Co-sponsored by the Animal Health and Collection Development Interest Groups  
 Coffman Mississippi Room (321)

***Business Meetings***

Technology Trends  
 Coffman President's Room (332)

AgNIC  
 Coffman 319

6:00pm

Meet at hotel lobby for transportation to the Textile Center

6:30pm - 8:30pm

**Dinner**

*(Sponsored by University of Minnesota Libraries)*  
 Textile Center, Minneapolis  
 hosted bar  
 Introduction of Dinner Speaker: Karen Williams, University of Minnesota  
 Speaker: Kevin Kling, Storyteller

**Tuesday, May 1, 2012**

7:00am - 12:00pm

**Registration**

Coffman Mississippi Room (321)

7:30am - 12:00pm

**Poster session set-up**

Coffman 303

7:30am - 8:30am

**Continental Breakfast**

*(Sponsored by University of Minnesota Friends of the Libraries)*  
 Coffman Mississippi Room (321)

8:30am - 9:30am

**Vendors Sessions**

*Moderator: Constance J. Britton, The Ohio State University*  
 Coffman Mississippi Room (321)

***CABI - CABI Update 2012***

Presenter: Paul Rogers

***ProQuest - ProQuest Agricultural Science Collection, with Agricola***

Presenter: Rich Hummel

***Thomson Reuters - Discovery Databases and Tools for University Analytics***

Presenter: Brian Keyes

9:30am - 10:30am

**Concurrent Contributed Paper Sessions**

**Contributed Papers III - Just in Time, Just in Case:  
Collection Preservation and Digitization**

*Moderator: Mary Dugan, Purdue University*  
Coffman Mississippi Room (321)

***Slicing and Dicing 100+ Years of Scholarship: Designing a Digital Collection for over 1100  
University of Idaho Extension and Idaho Agricultural Experiment Station Publications from  
1892 to the Present***

Devin Becker, University of Idaho

***NAL Digital Collections - Building a National Resource***

Melanie Gardner, National Agricultural Library

***Vermont Foodways Digital Initiative***

Elizabeth Berman and Amy Trubek, University of Vermont

**Contributed Papers IV - Engaging with Our Community:  
Collaboration and Outreach**

*Moderator: Melody Royster, University of Florida*  
Coffman 325

***So You Think They Are Following Us? Undergraduate Science and Technology Students  
Use of the Internet, Cell Phones, and Social Networking Sites to Access Library Resources***

Luti Salisbury, University of Arkansas

***Integrating and Positioning Scholarly Publishing into Agricultural Liaison and Outreach Services***

Peter Fernandez, University of Tennessee

***Better Together: Best Practices for Collaborative Teaching***

Amy Shannon and Ann Medaille, University of Nevada, Reno

10:30am - 11:00am

**Break and Exhibits**

Coffman Mississippi Room (321)

**Introduction of Invited Speaker**

Linda Eells, University of Minnesota

11:00am - 12:00noon

**Plenary Session**

*(Sponsored by National Agricultural Library)*

Speaker: Marla Spivak, Department of Entomology, University  
of Minnesota

**Why Care about Bees?**

Coffman Mississippi Room (321)



12:00noon - 1:30pm	<b>Lunch</b> Coffman Mississippi Room
1:00pm - 1:30pm	<b>NAL Update</b> Melanie Gardner, Digital Collections, VIVO, and AgNIC Manager, on behalf of Dr. Simon Liu, Director, NAL
1:30pm - 2:30pm	<b>USAIN Business Meeting</b> Coffman Mississippi Room (321)
2:30pm - 3:00pm	<b>Break and Exhibits</b> Coffman Mississippi Room and Lounge (321)
3:00pm - 4:00pm	<b>Poster Session</b> (Sponsored by CHS) Coffman 303

**1. "Return on Investment": Discovery of and Access to Publications from Funded Projects of the Organic Research and Extension Initiative**

Leslie Delserone, University of Nebraska-Lincoln

**2. University of Nebraska-Lincoln Data Repository**

Elaine Westbrooks and Leslie Delserone, University of Nebraska-Lincoln

**3. The First Year of "Creating a Data Management Plan": A New Workshop Offered by the University of Minnesota Libraries**

Beth Petsan, Lisa Johnston, and Meghan Lafferty, University of Minnesota

**4. Embedding Librarians, Information Technology and Outcomes-Based Information Literacy Competency into Large Undergraduate Lecture Courses at Cornell**

Jim Morris-Knowler, Cornell University

**5. Information Literacy in an Agricultural Economics Marketing Class**

Mary Dugan, Purdue University

**6. Visualizing Research Collaborations: Veterinary Medicine Publications Across Disciplines and Institutions**

Jessica Page, The Ohio State University; Heather Moberly, Oklahoma State University; Gregory Youngen, University of Illinois; Barbara Hamel, University of Wisconsin-Madison

**7. Using LibGuides for Collaborative Collection Development: Inter-Institutional Sharing of Specialty Boards Reading Lists**

Jessica Page, The Ohio State University; Ann Viera, University of Tennessee; Vicki Croft, Washington State University; Heather Moberly, Oklahoma State University

**8. Systematic Reviews in the Agricultural and Environmental Sciences: Embedding Librarians in Review Teams**

Florian Diekmann, Constance J. Britton, and Jessica Page, The Ohio State University

**9. Who You Gonna Call? Your Colleagues!**

Constance J. Britton, The Ohio State University; Allison Level, Colorado State University; and, Melanie Gardner, National Agricultural Library

**10. Transition to an Automated Indexing System for Scientific Agricultural Literature at the National Agricultural Library**

Lori Finch, National Agricultural Library

**11. Indigenous Knowledge Collection at Penn State**

Amy Paster and Helen Smith, The Pennsylvania State University

**12. Ecological Farming Resources: Researching the Local Community and Beyond**

Katherine O'Clair & Anna Jelks, California Polytechnic State University

**13. Expanding Access to Hidden Collections: Agriculture Archives and Green Revolution Materials at the University of Minnesota**

Susan Hoffman and Karen Spilman, University of Minnesota

**14. The Digitization of Indiana Farmer (1851-1917): Can the Agricultural Past Influence the Present?**

Vicki Killion, Purdue University

4:00pm - 5:30pm

**Legislative Liaison Committee, Interest Group Meetings**

**Perspective on Government Information: Where Are We Going? (panel)**

Sponsored by the Legislative Liaison Committee

*Moderator: Madeleine Charney, University of Massachusetts Amherst*

Speakers: Kirsten Clark, University of Minnesota; Melanie Gardner, National Agricultural Library  
Coffman Mississippi Room (321)

**Adapting to Climate Change: Is There a Role for Libraries?**

Sponsored by the Social Issues/Rural Information Interest Group

Speakers: Margaret Merrill, Virginia Tech University; Deva Reddy, Texas A&M University  
Coffman 323

**CIARD, a Global Framework for Information/data Sharing in Agricultural Research and Innovation – the Beijing Agenda (4- 4:30pm)**

Sponsored by the International Agriculture Interest Group

Speaker: Johannes Keizer, Office of Knowledge Exchange, Research and Extension, FAO  
Coffman 325

**Business Meeting, International Agriculture Interest Group (4:30-5:30 pm)**

Coffman 325

6:30pm - **Awards Banquet**  
*(Sponsored by Thomson Reuters)*  
 TCF Bank Stadium, Indoor Club Room  
 cash bar  
*From University Hotel, exit front of hotel turn left (Washington Ave.) turn left on Oak St., proceed to southwest corner of stadium; enter at the Benton County (aka Premium) entrance next to Goldy's Locker Room*

8:30pm - **3rd USAIN Cornhole Open**

## Wednesday, May 2, 2012

7:30am - 9:00am **Full Breakfast**  
 Coffman Campus Club (4th Floor)  
  
**Introduction of Breakfast Speaker**  
 Megan Kocher, University of Minnesota

8:30am - 9:00am **Breakfast Speaker**  
*(Sponsored by Kirschner Cookbook Collection)*  
 Lynne Rosetto Kasper  
 Host of American Public Media's *The Splendid Table* and author

9:30am - 10:30am **Preservation Update**  
 Bernard Reilly and Amy Wood, Center for Research Libraries  
 Coffman Mississippi Room (321)

10:30am - 11:00am **Break**  
 Coffman Mississippi Room (321)

**Introduction of Closing Keynote Speaker**  
 Julie Kelly, University of Minnesota

11:00am - 12:00noon **Closing Keynote Address**  
 Speaker: Mark Muller, Institute for Agriculture and Trade Policy, Minneapolis, MN  
**The Farm Bill and Me: A Love Story**  
 Coffman Mississippi Room (321)

12:00noon - 1:00pm **Lunch**  
 Coffman Mississippi Room (321)

1:30pm - 3:30pm **Tour of St. Paul Campus**  
 Meet in hotel lobby at 1:30pm



## Invited Speaker Biographies

### Pre-Conference: Getting a Handle on Copyright and Fair Use

**Brandon Butler** is the Director of Public Policy Initiatives at the Association of Research Libraries (ARL), a group of 126 major academic and research libraries in North America. His responsibilities there include analysis and advocacy regarding copyright, privacy and surveillance, free expression and telecommunications. He also writes the ARL Policy Notes blog and the @ARLpolicy twitter account. He earned B.A.'s in English and philosophy from the University of Georgia, an M.A. in philosophy from the University of Texas at Austin and his J.D. from the University of Virginia School of Law. Before working at ARL, he was an Associate in the Media and Information Technologies practice at the law firm Dow Lohnes PLLC in Washington, D.C.

**Marcia Keyser** is the Coordinator of Copyright Services, Instruction and Reference Librarian for Drake University in Des Moines, IA. She has worked at Cowles Library, Drake University since 2002. Her duties include teaching two classes: "Information Literacy" and "Copyright Issues for the U.S." She also participates in Reference duty; teaching individual class sessions about copyright or about library resources; consulting with faculty and administrators about library and copyright issues; and managing collection development for the School of Education. Currently she is a member of the Copyright Education Committee of the OITP office of the American Library Association. Her copyright education has come from experience, numerous conferences, online workshops, readings, and auditing the Copyright class taught by Dr. Peter Yu at the Drake University Law School. She is also the author of "Copyright For The Rest Of Us: A Guide For People Who Aren't Lawyers" which is available under a Creative Commons license at <http://hdl.handle.net/2092/1591>.

### Pre-Conference: Collection Management for the 21st Century

**Monica Moore** is a visiting electronic resources librarian at Illinois Wesleyan University. Her work there includes the management of all electronic resources as well as overall collection analysis. She is also the library liaison to the biology, chemistry, and physics departments and serves as a member of the Electronic Resources Working Group for the Consortium of Academic & Research Libraries in Illinois. She earned her master's degree in library and information science from Syracuse University in 2008.

**Connie Stovall** is currently Assistant Professor and Assistant Director for Collection Management at Virginia Tech. In this position she has a lead role in the undertaking of a large scale weeding project for the main campus library, as well as managing Virginia Tech's participation in ASERL's (Association of Southeastern Research Libraries) Distributed Print Archive.

**Elaine L. Westbrook** has been Associate Dean of Libraries at the University of Nebraska-Lincoln since 2008. In this role she administers long and short-term objectives for Technical Services, Public Services, library branches, and data curation. In addition Westbrook contributes to the strategic planning efforts, program development and assessment of resources to support of the Libraries' collection and overall mission. Currently she is working on her latest book, *Metadata Fundamentals for all Librarians* (ALA Editions Press). Her other research areas include ebooks, patron-driven acquisitions, linked data, and data curation. Westbrook has presented her research at various conferences including ALA, CNI, Dublin Core, and LITA.

## Opening Keynote Address

### Kent Cavender-Bares, University of Minnesota

Dialogue Earth

Initiative for Renewable Energy & the Environment , Institute on the Environment (IonE)

Kent Cavender-Bares directs Dialogue Earth, a new Institute on the Environment program focused on understanding dialogue related to the environment, and developing resources to promote shared understanding. His work focuses on translating and communicating science in such a way that it can contribute to a wide range of conversations linked to sustaining an ever-growing population.

Cavender-Bares formerly served as assistant director for bioenergy systems with the Initiative for Renewable Energy and the Environment, providing strategic leadership in the area of algal-based energy systems. Prior to joining IonE, he was the Midwest liaison for Climate Central, a nonprofit science and media organization that provides clear and objective information about climate change and its potential solutions. He also spent eight years working on science-policy issues related to measuring the condition and use of U.S. ecosystems at the H. John Heinz III Center for Science, Economics and the Environment, where he was a senior research associate. This work culminated with a book-length report, "The state of the nation's ecosystems 2008."

He holds a bachelor's degree in agricultural and biological engineering from Cornell University, a master's degree in environmental engineering from Stanford University, and a doctorate in civil and environmental engineering from the Massachusetts Institute of Technology.

A transplant to the Twin Cities area in 2003, Cavender-Bares enjoys outdoor activities, including hiking, biking and cross-country skiing, with his wife and two girls. He's always looking for a way to carve out time for his lifelong passion of woodworking.

## Monday Dinner Speaker

### Kevin Kling

Kevin Kling, best known for his popular commentaries on National Public Radio's *All Things Considered* and his storytelling stage shows like *Tales from the Charred Underbelly of the Yule Log*, delivers hilarious, often tender stories. Kling's autobiographical tales are as enchanting as they are true to life: hopping freight trains, getting hit by lightning, performing his banned play in Czechoslovakia, growing up in Minnesota, and eating things before knowing what they are.

Kevin Kling describes his zodiac sign as "Minnesota with Iowa rising..." He grew up in Brooklyn Park and Maple Grove, Minneapolis suburbs, and graduated from Gustavus Adolphus College in 1979 with a Bachelor of Arts degree in theater. His storytelling started when a friend from the now defunct Brass Tacks Theatre asked him to perform his stories. Since then, he has been awarded numerous arts grants and fellowships. The National Endowment for the Arts, The McKnight Foundation, The Minnesota State Arts Board, The Bush Foundation, The Jerome Foundation and others have recognized Kling's artistry.

Kling was born with a congenital birth defect — his left arm is about three-quarters the size of his right arm, and his left hand has no wrist or thumb. More than five years ago, Kling was in a motorcycle accident. The brachial plexus nerves in his right arm were pulled completely out of their sockets. Currently, he has partial use of his left arm and cannot use his right arm at all.

Kevin Kling continues to write plays and stories in a rigorous fashion, and travels around the globe to numerous storytelling festivals, residencies, and has been invited to perform the acclaimed National Storytelling Festival in Jonesborough, TN for several years. Kevin has released a number of compact disc collections of his stories, and has published three books, "The Dog Says How", "Holiday Inn," and "Big Little Brother."

## Plenary Speaker

### Dr. Marla Spivak, University of Minnesota

Marla Spivak is an entomologist who is developing practical applications to protect honey bee populations from decimation by disease while making fundamental contributions to our understanding of bee biology. Essential to healthy ecosystems and to the agricultural industry as pollinators of a third of the United States' food supply, honey bees have been disappearing at alarming rates in recent years due to the accumulated effects of parasitic mites, viral and bacterial diseases, and exposure to pesticides. To mitigate these threats, Spivak's research focuses on genetically influenced behaviors that confer disease resistance to entire colonies through the social interactions of thousands of workers. Her studies of hygienic behavior—the ability of certain strains of bees to detect and remove infected pupae from their hives—have enabled her to breed more disease-resistant strains of bees for use throughout the beekeeping industry. Spivak's "Minnesota Hygienic" line of bees offers an effective and more sustainable alternative to chemical pesticides in fighting a range of pests and pathogens, including the Varroa mite, a highly destructive parasite that spreads rapidly through Western honey bee colonies. By translating her scientific findings into accessible presentations, publications, and workshops, she is leading beekeepers throughout the United States to establish local breeding programs that increase the frequency of hygienic traits in the general bee population. With additional investigations into the antimicrobial effects of bee-collected plant resins under way, Spivak continues to explore additional methods for limiting disease transmission and improving the health of one of the world's most important pollinators.

Marla Spivak received a B.A. (1978) from Humboldt State University and a Ph.D. (1989) from the University of Kansas. She has been affiliated with the University of Minnesota since 1993, where she is currently Distinguished McKnight Professor in the Department of Entomology. She is the author and creator of numerous beekeeping manuals and videos, and her scientific articles have appeared in such journals as the *Journal of Neurobiology* (now *Developmental Neurobiology*), *Evolution*, *Apidologie*, and *Animal Behavior*.

## Breakfast Speaker

### Lynne Rossetto Kasper, Host of *The Splendid Table*

Lynne Rossetto Kasper has won numerous awards as host of *The Splendid Table*, including two James Beard Foundation Awards (1998, 2008) for Best National Radio Show on Food, four Clarion Awards (2007, 2008, 2009, 2010) from Women in Communication and a Gracie Allen Award in 2000 for Best Syndicated Talk Show. Lynne is a respected authority on food, having published three bestselling books: *The Splendid Table*, *The Italian Country Table*, and *The Splendid Table's How To Eat Supper*, which was co-authored with producer Sally Swift in 2008. *The Splendid Table*, produced by American Public Media, can be heard on nearly 300 public radio stations nationwide.

## Closing Keynote Speaker

### Mark Muller, Institute for Agriculture and Trade Policy

Mark Muller directs the Food and Justice program at the Institute for Agriculture and Trade Policy, which includes management of the IATP Food and Community Fellows. The program advocates for a larger vision of justice and encourages public policies that will contribute to a fair, just and healthy food system. Mark has worked on a wide array of food and agriculture issues, from on-farm nutrient management to agricultural development in Central America to the Farm Bill. Mark has a B.A. in physics and an M.S. in environmental engineering, and has had previous jobs as an environmental engineer, a high school science teacher and a farm hand. In 2008, he took a leave from IATP and spent six months as a volunteer in southern Honduras.



## **Abstracts, Contributed Papers**

### **Session I - Managing and Supporting Data: Innovative Curation**

#### **Data Under Construction: Data Profiling for a Water Quality Lab** *Jake Carlson and Marianne Stowell Bracke*

This case study describes an investigation into the data management and sharing practices within an interdisciplinary research lab. The Purdue Water Quality Field Station (WQFS) consists of researchers and graduate students generating data on a range of topics including: water quality, water flow, chemical composition of water, soil composition, soil moisture, and plant biomass. Many of these data are of interest beyond the lab, to other researchers, policy makers, and companies. Most of the data are gathered, processed and analyzed by graduate students from several different departments. The data gathered by one graduate student may be useful to others, but there are few common practices for documenting, managing or sharing data in the lab, making sharing data difficult even amongst lab personnel. To characterize the data sharing needs and practices in this setting, previous interviews with researchers were supplemented by interviews with 6 graduate students using a modified version of the Data Curation Profile Toolkit. The resulting Data Curation Profiles are being used as a foundation for a shared articulation of the data related needs of the lab and as a springboard for generating collaborations between the WQFS and the Libraries to address these issues. We believe that this approach of studying the data management and sharing practices and needs at the local-scale can provide insight into larger scale needs in sharing data sets externally and in serving to inform community-scale initiatives in this area

#### **Crop Sciences Data: A Review of Faculty Publications at the University of Illinois** *Sarah Williams*

This study gathered information about the data used, generated and shared by researchers in the Department of Crop Sciences in University of Illinois' College of Agricultural, Consumer and Environmental Sciences. Two recent articles from each Crop Sciences faculty member were reviewed over a few months in late 2011 and early 2012. Notes were made about specific types of data published, which could help inform discussions about crop sciences metadata and data repositories. Information was also gathered about data sources mentioned and data sharing methods used, such as depositing data in a repository and publishing supplementary files. Each article was also categorized to help identify any differences or similarities between types of research, such as field research and genetic research. This presentation will provide an overview of common data types in the crop sciences, discuss data reuse and sharing observations, and highlight specific resources for acquiring and sharing data relevant to crop sciences research.

**Dataverse – A Data-Hosting Solution for AgEcon Search**  
**Julie Kelly and Amy West**

Dataverse, the software developed at Harvard for hosting social science data, is being used as a solution for hosting data associated with one group of papers in AgEcon Search. We are utilizing the Dataverse Network that is hosted by Harvard's Institute for Quantitative Social Science. It is free of charge and data is backed up in perpetuity. Dataverse software is also available for downloading and local hosting. AgEcon Search is starting to archive data with one association and its journal - Australian Agricultural and Resource Economics Society (AARES), which publishes the Australian Journal of Agricultural and Resource Economics (AJARE). A member of the association approached AgEcon Search in 2009, asking if we would consider hosting data from their journal. We considered the option of using DSpace software, which was AgEcon Search's software at the time, but saw a number of possible problems. Economists Online, a large subject repository, had just begun using Dataverse for their data, and after careful consideration and consultation with their staff, we decided to follow suit. Dataverse has a number of features that make it a useful choice, including the ability to list data sets from other Dataverses, being able to theme each Dataverse instance with graphics and links, customize the ingest form, and set restrictions on use of data. One need not be a programmer to set up a Dataverse instance, and technical help is available via e-mail.

**Session II - Curriculum & Instruction for Twenty-First Century Learning**

**Creating Meaningful Information Literacy Assignments for an Introductory Agriculture Course**  
**Marianne Stowell Bracke**

Integrating information literacy into the curriculum is an ongoing challenge. Purdue has explored an approach of integrating information literacy into Agriculture 101. Agriculture 101 is a half-semester, college-wide introductory class and is team taught by the Associate Dean of Agriculture and the librarian. This opportunity reassessed the approach to addressing ACRL Information Literacy standards. Librarians had attempted to address as many of these standards as possible in a session. In this case, being an instructor of record and part of the instruction team afforded a different approach to information literacy. The core approach was a guided writing assignment in which students were asked to contrast popular and scientific articles on a topic. A portion of the assignment evaluation was anonymous student peer review. Five information literacy objectives were addressed through this assignment, all of which were focused on evaluating information sources. Initially, it was found that freshmen found the search process a barrier to completing the assignment. As a result, students were given articles to work with, allowing them to focus on understanding content. The primary outcome was the ability to distinguish between popular and scholarly articles. Other outcomes, such as peer review in the scientific process and improved writing, were secondary. Three semesters of assessment data provide statistically significant evidence of this approach's success in improving students' abilities. Additionally, this has afforded an opportunity to demonstrate the value and dedication of librarians to improving student learning, and the value of incorporating information literacy into the curriculum.

**Setting Them Up For Success: A Research Skills and Management Course for New Graduate Students in Agriculture and Related Disciplines**  
*Katherine O'Clair*

Graduate students arrive to our campuses with a wide variety of experiences and skill sets, including those associated with information seeking and literature research. While some graduate students may have been fortunate enough to receive information literacy instruction at the undergraduate level, nearly all will have higher level information needs that require advanced instruction to build the sophisticated set of skills needed for graduate level study and research. Some students will have a well-developed research topic, and others will be in the very early stages of identifying a potential research topic. Ensuring that students are adequately prepared for the demands of graduate-level study and research is important to their long-term success. In addition, it may play a role in reducing the time to degree, especially for those lacking information seeking skills and a well-developed topic.

This paper session will describe a for-credit course for new graduate students in the College of Agriculture, Food and Environmental Sciences for which the College Librarian served as the sole instructor of record. This course, which was taught for the first time in the fall of 2011, was designed to serve as an intervention at the beginning of their graduate studies by providing instruction on information resources, searching and research management. The students also focused on identifying and developing a meaningful research topic, created their formal plans of study, and selected members for their graduate committees. This session will share how the librarian worked with the college to offer this course and alongside faculty to develop the course curriculum. Results of the pre- and post-test assessments and questionnaires used to measure the impact of the course and its effect on graduate student preparedness will also be shared.

**PANEL: Information Literacy, The Canopy View: How to See the Forest and the Trees**  
*Allison Level, Marianne Stowell Bracke, & Elizabeth Berman*

For the past decade, ACRL's Information Literacy Competency Standards for Higher Education, and the Information Literacy Standards for Science and Engineering/Technology (adopted in 2006), have been providing the framework for how librarians engage in teaching and assessing information literacy, specifically in the sciences. Both sets of standards are currently under review for currency and accuracy, presenting the question: are these standards still relevant to how and what we teach?

In this interactive session, panelists will present their views on the current information landscape as it applies specifically to agricultural/natural resources fields. This is especially important as information literacy research too rarely focuses on the unique aspects of these disciplines. Topics that will be addressed will include: the changing roles for what we do (or are expected to do), the role of data literacy in the sciences, and the role of standards in our work.

The panelists will also present thought-provoking questions to engage participants in a dialog about the changing role of information literacy in their professional role. Participants will take away from this session a greater awareness for what is on the horizon in information literacy in agricultural/natural resources fields, as well as some practical ways to apply these changes to their own teaching.



### **Session III - Collection Preservation and Digitization**

#### **Slicing and Dicing 100+ Years of Scholarship: Designing a Digital Collection for Over 1100 University of Idaho Extension and Idaho Agricultural Experiment Station Publications from 1892 to the Present** *Devin Becker*

In the spring of 2010, the Digital Initiatives department at the University of Idaho Library collaborated with the University of Idaho Extension in order to digitize and provide access to over 100 years of UI Extension and Idaho Agricultural Experiment Station publications. The project required physical publications be sliced by a guillotine for easier digitization, and that the digitized items be diced into different deliverables for the web portal. Additionally, individual publications had previously received scant cataloging attention by the library, so the project was designed to address both the digital presentation and preservation of the documents, as well as their cataloging needs, which were eventually addressed by using OCLC's Digital Collection Gateway to upload records into WorldCat. The majority of this work was finished in the fall of 2011.

This paper will detail the digitization and metadata processes used to deal with over 1100 documents in a variety of formats and preservation states. It will also detail the coding and design process that went into building a web portal for the collection (<http://www.lib.uidaho.edu/digital/uiext/>). The web portal allows browsing and access by time, subject, and list, as well as magazine-like browsing capabilities; it does so by combining the metadata export capabilities of ContentDM with free online resources such as Simile's JavaScript Timeline application, tagcrowd.com, and issuu.com. All this work was geared towards providing the easiest (and hopefully most intuitive) access, browsing, and searching of these publications so that this practical, research based information on Idaho agriculture, forestry, gardening, and other topics would be available, both now and in the future, to both the researcher and the general Idaho resident.

#### **NAL Digital Collections – Building a National Resource** *Melanie Gardner*

The National Agricultural Library (NAL) serves as the Nation's library for agricultural information. Its mission is "advancing access to global information for agriculture." As many large institutions have done, NAL began building a digital repository nearly seven years ago. Originally conceived as several separate projects, the multiple sources of digital content have now been unified into a single system. Over the past two years, NAL has worked to redesign, re-engineer, and re-launch what is now the "NAL Digital Collections." The "digital collections" includes multiple types of content: historic, U.S. Department of Agriculture (USDA) peer-reviewed research literature, rare, and special content and external content. A major component of the NAL Digital Collections will be comprised of content created as the outcomes of extramural grants - "U.S. government agencies with annual extramural research expenditures over \$100 million make manuscripts of journal articles stemming from research funded by that agency publicly available via the Internet." In addition, the Federal government is moving to include collecting and storing all associated data sets. Currently, NAL Digital Collections is preparing to accept important external collections such as society publications, subject-specific and peer-reviewed collections, and other full-text research publications. Through the AgNIC partnership cooperative agreements, other full-text content has been identified, digitized and stored. Attend this session and learn more about the new content and access to full-text information on a national scale.

**Vermont Foodways Digital Initiative**  
**Elizabeth Berman and Amy Trubek**

In 2010, Profs. Berman and Trubek received an Instructional Incentive Grant from the University of Vermont's Center for Teaching and Learning to develop a digital collection of primary material that explores the food culture of Vermont, past and present. Their work resulted in the Vermont Foodways Digital Initiative (<http://vermontfoodways.omeka.net/>), a limited digital collection of approximately 100 items that are focused around two areas related to Vermont foodways:

- (1) Migration, Past and Present, which looks at the food traditions, customs and stories, not only of the earliest settlers in Vermont, but also of the more recent refugees and transplants; and
- (2) Techniques of the Working Landscape, which looks at how Vermonters use the land for nourishment and livelihood, including agrarian traditions, such as milk, butter and cheese production, as well as hunting and foraging practices.

In this presentation, Profs. Berman and Trubek will talk about the genesis of the project, the objectives of the digital collection, and the selection of resources for inclusion, including partnerships with the Department of Special Collections and the Center for Digital Initiatives. They will also talk about the challenges involved in developing this digital collection, resulting in their selection of the open-source web-publishing platform Omeka. They will also address future plans for the Vermont Foodways Digital Initiative, including integration into the new M.S. in Food Systems curriculum.

**Session IV - Engaging with Our Community: Collaboration and Outreach**

**So You Think They Are Following Us? Undergraduate Science and Technology Students Use of the Internet, Cell Phones, and Social Networking Sites to Access Library Resources**  
**Luti Salisbury**

Generation Y, typically people who were born in the eighties and nineties, have grown up in a world increasingly populated by video games, computers, the web, instant messaging and cellular phones. Technology has been a part of their lives from the beginning. Most of the people from this generation are now undergraduate students in colleges and universities.

Because of their pervasive use of the internet, social networking sites and the increasing ownership of cell phones, iPods and iPads, coupled with high speed wireless network, scholars and librarians are hoping that they can jump on the bandwagon and use these devices as a way to reach out to students, faculty and other library patrons. Many academic libraries and publishers have developed mobile optimized versions of their websites and catalogs. Almost all database vendors and major journal publishers have provided a way to connect to their resources via the Internet and the mobile web.

During this presentation, we will present the results of a survey administered during two semesters (summer and fall 2011) to 280 science and technology students, primarily in biological sciences, biological engineering, chemical engineering, animal science and Kinesiology to study their habits and purposes in their use of the internet, social networking sites and their cell phones. The objective of the study was to find out whether they use these technologies and devices to access library related materials. We will also present how these findings could inform our outreach and instruction efforts in academic libraries.

**Integrating and Positioning Scholarly Publishing into Agricultural Liaison and Outreach Services**  
***Peter Fernandez***

This program will report on various strategies employed at the Webster C. Pendergrass Agriculture & Veterinary Medicine Library at the University of Tennessee to integrate information about scholarly communications into our outreach efforts. While scholarly communications are at the heart of both librarianship and the research process, it can be challenging to make the issues raised in scholarly communications literature relevant to patrons without sacrificing other crucial outreach messages. Our efforts have focused on finding the appropriate informational role for the liaison librarian as well as creating services to support that outreach. This has meant harnessing the vast array of open access resources and translating them into brochures and subject guides that are relevant to the primary user groups of an Agriculture library. Crucial to this effort has been finding ways to effectively frame the issue and developing new partnerships both within and outside the library. By utilizing their insight into the realm of publishing along with their subject knowledge, the librarian's role can be positioned as an effective facilitator for conversations between researchers, librarians, administrators and other patrons. However, responsibility for change in a given field ultimately depends on the practitioners. These techniques acknowledge both the strengths and limitations of the liaison role. They leverage the liaison relationship, inform patrons, and flow naturally from ongoing outreach work by providing information and facilitating discussion.

**Better Together: Best Practices for Collaborative Teaching**  
***Amy Shannon and Ann Medaille***

While instruction is becoming increasingly important in the work of librarians, many librarians come to the job with little teaching experience or training. Agriculture liaisons are more likely to be hired for their subject expertise than teaching experience. Co-teaching with librarians or other information technologists has numerous benefits, both in enhancing librarians' teaching skills and in bringing innovative ideas into the classroom. This presentation will focus on research results from a survey of instructors and will present a set of guidelines/best practices for developing collaborative teaching relationships within the library or across departments.



## **Abstracts, Technology Track**

### **Increasing Student Participation with PollEverywhere**

***Elizabeth Berman***

PollEverywhere is a free audience-response tool that allows students to use their cell phones or Twitter to answer questions during library instruction sessions and orientations. This technology can increase student participation by allowing on-the-fly assessments. This lightning talk will demonstrate how this technology keeps students on task and engaged during library instruction.

### **Social Media Wrangling: A Comparison of Feed Tools**

***Kristen Mastel***

This presentation covers a comparison of mashup tools to aggregate Twitter feeds, Facebook posts, Flickr images, along with current conference information, such as paper.li, Storify, and Yahoo Pipes. These tools can be used for local events and personal social media wrangling.

### **Creating Customization with Google Forms**

***Megan Kocher***

The University of Minnesota, like many institutions of higher education, recently adopted the Google Apps for Education Suite of tools for students, staff, and faculty. One particularly useful tool in this suite is the Google Form, which collects responses from a form in a Google Spreadsheet. Members of the University Libraries' Personal Information Management Collaborative (PIM) built a customized Google form using a few lines of Javascript code. The customized form asks respondents to indicate topics they'd like to know more about, and the code triggers an email to the respondent with links to tutorials, workshops, and other instruction in their areas of interest. This unique solution can be adapted for a variety of uses in higher education, increasing the basic functionality of the standard Google Form. This presentation gives an overview of the customized form created by PIM, and highlights resources and tools that enable participants to create their own custom solutions with Google Forms.

### **Mind Mapping with Popplet**

***Elizabeth Berman***

Popplet is a new web-based platform that self-describes as a "platform for your ideas"; it is a unique combination of a presentation tool, mind mapping tool and online bulletin board. This lightning talk will demonstrate creative ways to use Popplet during library instruction to help students explore their research topic through multimedia brainstorming.

### **From Sprouting Seeds to Growing Minds**

***Kristen Mastel***

Do you love gardening? Have you ever been at the nursery and wanted more details on an ornamental plant or wanted to identify that mystery weed in the neighbor's yard? Interested in tracking your growing season and harvest or integrate maintenance for your entire garden into your personal calendar? Join us in cultivating your gardening app knowledge.

## **Abstracts, Poster Session**

### **1. “Return on Investment”: Discovery of and Access to Publications Resulting from Projects Funded by the Organic Research and Extension Initiative**

***Leslie Delserone***

Attempts to reduce agriculture’s environmental impact lead some researchers to investigate organic production methods. The USDA’s Organic Research and Extension Initiative (OREI) funds a significant portion of the organic research conducted in the United States and its territories. Of the proposals funded between 2004 and 2010, approximately 51% of the projects are complete as of December 2011. Publications from the completed projects, as reported by the investigators in the USDA’s Current Research Information System (CRIS), are one measure of the program’s “return on investment” - documenting these research and extension efforts for future researchers, organic producers, and other interested parties. This study evaluates the publication venues, discoverability, ease of access, and preservation of the publications resulting from completed OREI-funded projects. Preliminary results reveal a mix of peer-reviewed publications (few open-access) as well as more transitory venues, including born-digital extension documents, newsletters of state organic agricultural societies, and a variety of conferences, workshops, and meetings of professional societies. Impediments to discovery include discrepancies between the CRIS citation and the actual publication data. More disturbing are difficulties in accessing reports that appear outside of scholarly journals, indicating a large gray literature component to this federally funded scientific research. The lack of access to and preservation of the products of OREI’s funding may contribute to redundancy in future efforts, as well as the loss of these contributions to the knowledge base of organic agriculture.

### **2. University of Nebraska-Lincoln Data Repository**

***Elaine Westbrooks and Leslie Delserone***

In response to the National Science Foundation’s mandate for researchers to include plans for data retention and archiving in grant proposals, the University of Nebraska-Lincoln (UNL) secured hardware to establish a data repository that provides a safe place for UNL researchers to archive their data (<http://dataregistry.unl.edu/>). UNL’s Libraries and Information Services (IS) partnered to create a seamless system in which researchers can enter metadata, express rights, indicate data retention periods, and upload data via a simple ‘click-through’ website. The Libraries’ data curation committee and IS created the content template and the user interface to ensure that the Libraries collect all of the necessary information to archive the data according to the researcher’s needs.

The design of the repository’s interface encourages researchers to consider not only the option of open data access, but also the possibility of depositing other scholarly output in UNL’s institutional repository, the Digital Commons.

This poster will highlight elements of the data repository, including researchers’ options for retention, access, rights, and metadata for data deposits, the authentication process for researchers, the integration of the repository with other UNL resources, and its promotion on campus. A live demo of the online tool also will be available during the poster session.

### **3. The First Year of “Creating a Data Management Plan”: A New Workshop Offered by the University of Minnesota Libraries**

***Beth Petsan, Lisa Johnston, and Meghan Lafferty***

The University of Minnesota Libraries began offering a new workshop in December 2010 called “Creating a Data Management Plan for your Grant Application.” This was in anticipation of the National Science Foundation’s (NSF) new requirement to include a data management plan with all grant proposals beginning in January 2011. The 1.5 hour free workshop is geared toward graduate students, faculty and researchers. Topics such as data preservation and tools for sharing data are presented and then discussed in groups.

This poster will include information about: attendees of the workshop, liaison librarians’ participation, why the libraries decided to offer the workshop and why agricultural researchers specifically can benefit from attending. The poster will also discuss possible future services related to Data Management Planning.

### **4. Embedding Librarians, Information Technology and Outcomes-Based Information Literacy Competency into Large Undergraduate Lecture Courses at Cornell**

***Jim Morris-Knowler***

This poster presents information on Mann Library’s use of multimedia tutorials for information competency instruction, which is also covered in a chapter I co-wrote for the recently published ACRL book *Embedded Librarians: Moving Beyond One-Shot Instruction*.

One of the central goals of Albert R. Mann Library’s instruction program is to integrate outcomes-based information competency into large enrollment undergraduate courses offered by the College of Agriculture and Life Sciences (CALS) at Cornell University. Using a blend of embedded librarianship, instructional technologies and assessment tools, we have designed and delivered an integrated information literacy program for a variety of courses in the sciences and social sciences. In an era of rapid technological change, we feel this approach is far better than traditional models in reaching students and training them to be information literate—skills that will be essential for a group of future leaders faced with solving problems like global warming and climate change.

To get a further sense of this program, check out the short video we created for Cornell faculty to explain (and sell) our multimedia library instruction modules: <http://youtu.be/67MLgzSIsUg>

### **5. Information Literacy in an Agricultural Economics Marketing Class**

***Mary Dugan***

Each spring semester, an agricultural economics professor teaches a course on marketing for the agribusiness program and requires a major assignment for which the students choose a current issue, research the topic, and then present the marketing issues to the class. In past years the completed assignments ran the expected range of unacceptable to outstanding, but during recent years, the sources that students have used to find information about their topics have been less and less reputable and thus less and less acceptable. The professor was especially vexed when several students relied on unsuitable videos from YouTube, ignoring the requirement of providing information from sources with the qualities of credibility, authority, reliability, relevance and currency.

The professor contacted the library liaison for agricultural economics to present a guest lecture to the class on information resources. Together they designed a class where the students were engaged in active learning to research topics for three aspects of the assignment: research of the topic as an issue in current news reports, any necessary background and history that would help the audience understand the issue, and an analysis from a strategic marketing point of view. In the estimation of the agricultural economics professor the students' presentations were much improved after this class.

The students were surveyed to determine both the effectiveness of the class and their attitudes to assistance from an information specialist. The key questions were whether the students found the session to be beneficial or not beneficial, and if they used the resources that were demonstrated. These results and responses to the questions about the students' help-seeking practices will be presented.

#### **6. Visualizing Research Collaborations: Veterinary Medicine Publications Across Disciplines and Institutions**

*Jessica Page, Heather Moberly, Gregory Youngen, and Barbara Hamel*

Veterinary medical research traditionally focuses on animal health and wellness; however, research activities at United States accredited veterinary colleges extend far beyond these traditional areas. An analysis of Web of Knowledge-indexed peer-reviewed articles from researchers at the twenty-eight accredited colleges of veterinary medicine in the United States indicates an increasing interest in human and public health issues, robust interdisciplinary collaboration, and a broad array of nontraditional research interests and publications.

The study identifies journals outside the traditional veterinary medical literature where veterinary faculty publish; research areas outside veterinary medicine in which veterinary faculty are publishing; as well as institutional collaborations and overlap. The data also highlight areas of research emphasis at individual institutions. This information can assist veterinary medicine librarians in developing collections that fully support the interdisciplinary research conducted by their patrons. Furthermore, data on areas of research can help veterinary medical researchers locate collaborators across disciplines and across institutions. Using textual analysis tools and visualizations, such as word clouds, maps, and charts, can assist us to clarify this data through illustration.

#### **7. Using LibGuides for Collaborative Collection Development: Inter-institutional Sharing of Specialty Boards Reading Lists**

*Jessica Page, Ann Viera, Vicki Croft, and Heather Moberly*

Veterinarians can become certified as specialists in any of twenty-one American Veterinary Medical Association-recognized veterinary specialty organizations. Each administers examinations and most provide candidates with reading lists for board examination test preparation. Developed by experts, the reading lists are important tools in building or benchmarking veterinary library collections' coverage of veterinary specialties. The lists have another function: highlighting relevant, practical resources from the point of view of practicing veterinary professionals, veterinary students, and faculty.



A project is underway by four veterinary librarians to collaborate on the curation of the twenty-one reading lists. Locating the current version of each list can be tough. The librarians are working with the Specialty Board Examination Committees to identify the correct list, make it accessible, and keep it updated. This work, using LibGuides software, will yield considerable time savings across the veterinary medicine community of practice.

Each Web-based reading list guide can be adopted as a template by other libraries with a few clicks, providing the library subscribes to the service. Guide templates that board certification candidates need, different at each veterinary college, can be then be linked to library holdings with minimal effort and maximum accuracy.

## **8. Systematic Reviews in the Agricultural and Environmental Sciences: Embedding Librarians in Review Teams**

*Florian Diekmann, Constance J. Britton, and Jessica Page*

Evidence-based practices developed rapidly in the fields of medicine and public health over more than two decades, giving rise to the establishment of 'systematic review' guidelines and methodologies in order to identify effective interventions, strategies or programs based on the available scientific evidence. Systematic reviews are distinguished from traditional narrative review approaches by the rigor, objectivity, and transparency applied at key stages of the review process. They have emerged as a recognized framework for identifying, critically appraising and summarizing scientific evidence related to a focused question or body of research and have been successfully applied in many research fields. While common in the health sciences, systematic review methodologies have not been extensively applied to the agricultural and environmental sciences, although they hold considerable promise in many areas. Since systematic reviews integrate scientific evidence, often across large bodies of original research and typically involving a wide range of specialized data resources, they offer many opportunities for involvement by information specialists and librarians to serve as valuable collaborators. Librarians provide expertise in search strategy development, extensive knowledge of database content and specific search techniques, as well as strategies for locating appropriate grey literature. Based on our own experiences and involvement with systematic review approaches, we review the process of conducting a systematic review, survey related review types, highlight requirements specific to the agricultural and environmental sciences, and discuss the multiple roles and responsibilities of the librarian embedded in the review team.

## **9. Who You Gonna Call? Your Colleagues!**

*Constance J. Britton, Allison Level and Melanie Gardner*

Wikipedia defines crowdsourcing as the act of sourcing tasks traditionally performed by specific individuals to a group of people or community (crowd) through an open call. Such collaboration is not a foreign concept to most librarians; the library community has been cooperatively cataloging for many years. So when the AgNIC Content Committee sought to identify institutional repositories containing agricultural-related content in order to harvest the metadata, we viewed this task as a crowdsourcing opportunity and called upon other AgNIC partners for assistance. Using a Google Docs spreadsheet, another collaboration tool which allows up to 50 simultaneous users, the team reviewed 320 repositories and identified 142 for metadata harvesting. The 3-week event generated exposure to the project, enthusiasm and camaraderie among the participants, and accomplished a priority task of the committee.

## **10. Transition to an Automated Indexing System for Scientific Agricultural Literature at the National Agricultural Library**

***Lori Finch***

The National Agricultural Library has been testing and implementing an automated indexing system to increase the quantity of citations in AGRICOLA while maintaining quality content and the sound integration of NAL Agricultural Thesaurus terminology. This presentation will address the lessons learned, benefits and challenges experienced during the transition from a traditional manual indexing operation to natural language processing. Specific issues covered will include the following:

- The special problems scientific literature poses for automated indexing, including the abundance of abbreviations, acronyms, special characters and taxonomic names;
- The challenge of leveraging the traditional thesaurus structure for homographs, synonyms and hierarchical relationships to yield a consistent, specific indexing language;
- The discovery of terms in the thesaurus not initially seen as homographs that are now problematic;
- The reality of intra- and inter-indexer variation and the resulting challenges to establishing a “gold standard” by which the automated indexing system can be judged;
- The specific types of errors generated by auto-indexing scientific agricultural literature; and
- How rule building, regular expressions, knowledge bases, “fingerprinting” of journals and machine learning strategies help generate automated indexing that meets quality benchmarks.

The presentation will also address quantitative success metrics and impacts, including the rise in indexing output and the measure of search and classification performance.

## **11. Indigenous Knowledge Collection at Penn State**

***Amy Paster and Helen Smith***

In 2010 the Penn State Libraries acquired the Center for Indigenous Knowledge and Rural Development (CIKARD) collection from Iowa State University. The original CIKARD project and collection, developed by Michael Warren at Iowa State, focused its activities on preserving and using the local knowledge of farmers and other rural people around the globe. Since the collection was not integrated with the libraries it consequently was never readily accessible to students, researchers, or interested individuals. Moreover when the center ceased to exist in 1995, the original paper based collection was rendered totally unavailable. This collection contained a significant number of key papers and reports (grey literature) pertaining to indigenous knowledge for agricultural and rural development. The new Penn State Indigenous Knowledge collection will integrate the previous CIKARD collection with new material. It will be fully cataloged, appropriately preserved, and as much material as possible will be digitized, resulting in increased access to previously hidden resources.

In addition to the collection, the Libraries are collaborating with the Penn State Inter-institutional Consortium for Indigenous Knowledge (ICIK). This network, based in the College of Education, promotes communication among community residents, students, university faculty and staff from across Pennsylvania and the world. Participants all share an interest in local knowledge systems and would like to engage with communities and promote locally useful knowledge that will enable these communities to survive in a rapidly globalizing society. The Libraries are currently co-sponsoring seminars, developing and maintaining the ICIK web page, as well as playing an active role in other projects. This poster will describe the acquiring and processing of the CIKARD collection, as well as the work to enhance access to the collection, and the collaborative projects developing between the Libraries and the Penn State ICIK community.

## **12. Ecological Farming Resources: Researching the Local Community and Beyond**

***Katherine O'Clair and Anna Jelks***

Ecological farming continues to become increasingly popular as individuals make food choices that are more sustainable and health conscious. For years, the Cal Poly Organic Farm at California Polytechnic State University in San Luis Obispo has worked to educate students about organic and sustainable farming and gardening practices. Recently, the Cal Poly Organic Farm has expanded its reach into the community by participating in continuing education conferences and hosting educational tours. Students also share information about ecological farming practices with the community at local farmers' markets and at the on-campus market. As a result of this work, there became a need for an efficient and effective way to connect the community with the various information resources on ecological farming, which were frequently requested by its patrons and visitors. The Cal Poly Organic Farm approached the Agriculture and Environmental Sciences Librarian for possible solutions, and the result was the creation of an online ecological farming resource guide that was designed to allow both local users and those across the country to access the featured books, articles, websites and more in their local communities. This poster will describe how the Cal Poly Organic Farm and the Agriculture and Environmental Sciences Librarian collaborated to create this online resource guide for ecological farming that would serve the local community and beyond.

## **13. Expanding Access to Hidden Collections: Agriculture Archives and Green Revolution Materials at the University of Minnesota**

***Susan Hoffman and Karen Spilman***

In 2009, University Archives at the University of Minnesota procured state and private funding to process, describe and selectively scan over 2100 cubic feet of underused agriculture-related materials, including departmental, collegiate-level and personal papers relating to local and international agricultural education and research. Through the creation of online finding aids, inclusion of scanned documents and photos in the Libraries digital media repositories, and exhibits and public programming, not only Minnesotans but the international scholarly community now has full text access to the papers of Nobel prize winner Norman Borlaug, his mentor E.C. Stakman, as well as records of the renowned Cereal Rust Laboratory and Minnesota's Plant Pathology department.

## **14. The Digitization of Indiana Farmer (1851-1917): Can the Agricultural Past Influence the Present?**

***Vicki Killion***

In June 2010 Purdue University Libraries began the digitization of *Indiana Farmer*, the agricultural magazine that was at one time the organ of the Indiana State Board of Agriculture. As with many tabloid-sized publications printed on newspaper in the latter part of the 19th century, *Indiana Farmer* was slowly deteriorating due to extensive use and unfavorable environmental conditions. Many libraries supporting agriculture programs are attempting to preserve these unique local collections that showcase the social and cultural history of our states when agriculture was the primary industry.

The *Indiana Farmer* project was the result of an ILMS- LSTA grant from the Indiana State Library to add to the Indiana digital library, Indiana Memory, which is chronicling the history of the state through a variety of digital forms. The intent of the digital library is to increase understanding of Indiana's past and its role in preparing the state for the future. Increased access and preservation of a valuable resource was the primary goal of the project. However, the grant criteria also specified a number of educational outcomes that would benefit the citizens of Indiana. Lesson plans based on the state's education standards were developed by a retired elementary school teacher: "Fact or Fiction—Where is the evidence?"; "Indiana's State Fair"; and, "Studebaker Brothers Corporation—From Wagons to Wheels."

The project was completed in May 2011 on time and under budget by almost 45%. This presentation will provide details of the grant proposal, digitization process, publicity, and the statistics associated with the use of the collection, especially the lesson plans (<http://e-archives.lib.purdue.edu/collections/indianafarmer/>)



## **Abstracts, Interest Group Meetings/ Legislative Liaison Committee/ Preservation Update**

### **New Strategies for Collection Development in the Animal Sciences**

*Co-sponsored by the Animal Health & Collection Development Interest Groups*

#### **Part 1:**

#### ***Two universities. Two programs. One collection. Designing a library collection for a 2+2 veterinary science program***

Vicki Croft and Sandra Weingart are working together to support the new 2+2 DVM program at Utah State University. The university is starting a 2+2 DVM program in coordination with the traditional four-year DVM program at Washington State University. In the 2+2 DVM program, Sandra's students spend their first two years in veterinary school at USU and their final two at WSU, while Vicki's students are at WSU all 4 years. In this presentation, they describe how they planned and implemented the creation of a collection at USU and supplemented the collection at WSU. The collaborative collection includes both print and electronic resources with the added twist that UST students will have access to WSU resources from day one at USU.

#### **Part 2:**

#### ***An overview of new and future veterinary collection resources and a proposal to the interest group***

For the past several years veterinary librarians, independently and through the MLA-VMLS, have been making a conscientious effort to incorporate authoritative veterinary resources in standard and new collections publications. Some, although individually bylined, are ongoing projects/products of VMLS, which is vested in their quality and updating. We will provide an overview of several of the publications: expanded and updated coverage in the ALA "Guide to Reference," ISTL Webliographies, the Medical Library Association's Master Guide to Authoritative Information Resources in the Health Sciences, "The Basic Serials List, 3rd edition"(JMLA ), and a chapter in a new book (nyp) about collections in professional programs. After the overview we invite discussion about the possibility and viability of USAIN AHIG taking a leadership role in other animal health/animal science collection development projects (e.g. Guide to Reference Sources and ISTL Webliographies) as a first step in proposing that USAIN overall embrace this challenge for the agricultural sciences.

### **Perspectives on Government Information: Where Are We Going?**

*Sponsored by the Legislative Liaison Committee*

Get "up to speed" regarding changes in the Federal Depository Library Program. Learn about the role of the Digital Repository of the National Agricultural Library (NAL) in collecting and preserving USDA publications. Kirsten Clark from University of Minnesota, Twin Cities and Melanie Gardner from NAL will present various perspectives on these complex issues. There will be an opportunity to share ideas about inter-institutional efforts such as that of the Association of Southeastern Research Libraries (ASERL). Let's brainstorm ideas for becoming proactive and engaged as USAIN members in these critical areas.

**Adapting to Climate Change: Is There a Role for Libraries?**

*Sponsored by the Social Issues and Rural Information Interest Group*

*Presenters: Margaret Merrill, Virginia Tech University and Deva Reddy, Texas A & M University*

While quantification remains difficult, many climate scientists think that the effects of climate change are here and will only get worse. It is expected that by 2050 climate change will have made some fairly dramatic changes to the planet. We are past the point of being able to stop or prevent climate change, although it is still possible to mitigate some of the worst effects. Given this, the thinking is that the focus needs to shift to developing strategies for adapting to climate change that will enable people to survive. Each region of the world (large and small) will need to find ways to cope with its own set of impacts.

Agriculture, because of its dependence on “good weather” and other climatic factors, is expected to be significantly affected. Further, rural or farming communities tend to be more vulnerable to and have fewer resources for coping with climate change than urban communities. Rural access to good information on climate change and available adaptation strategies is often weak or lacking.

This Social Issues/Rural Information Interest group will 1) provide a brief overview of the impacts climate scientists have identified and 2) a description of adaptation strategies currently being discussed in the literature. After this presentation, attendees are invited to brainstorm ways in which libraries can contribute to the ability of farmers and rural communities to adapt to and survive the impacts of climate change – and thereby continue to provide us with a reasonable supply of food.

**Preservation Update**

*Presenters: Bernard F. Reilly and Amy Wood, Center for Research Libraries*

Recently, the Center for Research Libraries (CRL) was awarded a two-year Institute of Museum and Library Services (IMLS) National Leadership program grant to develop a model for cooperative, coordinated management of physical collections in two major fields of research. The project, entitled *Cooperative Print Archiving by Discipline: Developing an Infrastructure to Sustain Scholarly Resources*, focuses on print serials in the fields of Law and Agriculture.

CRL is partnering with USAID to identify the terms, services and costs of print archiving of agricultural materials. After a series of teleconferences in the Fall of 2011, CRL undertook several site visits, to better understand the current state of archiving for agriculture serials and the local costs and implications of committing to archiving collections.

CRL will present their findings at the USAID meeting and hopes to engage in a productive discussion with the USAID community that will result in broad consensus on the appropriate terms of archiving, related services, and distribution of costs.



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## NEW IN MARCH 2013:

### *Annual Review of Animal and Veterinary Biosciences*

The *Annual Review of Animal and Veterinary Biosciences*, publishing in 2013, will cover the most significant developments in the broad fields of animal and veterinary biosciences. It will place a particular emphasis on biotechnology, genetics, genomics, and breeding as well as veterinary medicine, veterinary pathobiology, infectious diseases, and vaccine development, and conservation and zoo biology, particularly genomics.

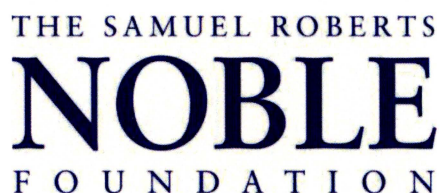
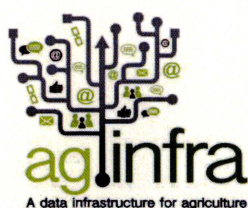
This journal is of direct interest to scientists working on wild and domesticated animal species, veterinarians, conservation biologists, and geneticists. The first volume of the *Annual Review of Animal and Veterinary Biosciences* will be available online and in print in March 2013.

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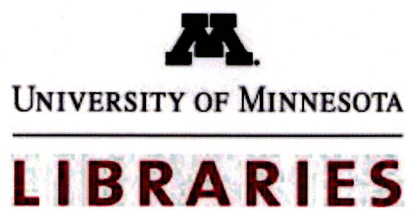


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