

Andrea L. Dinkelman
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Science & Technology Librarian
Iowa State University
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A. Education & Experience

Education:

University of Illinois, Urbana-Champaign, IL
Graduate School of Library and Information Science
M.S., Library and Information Science, August 2003

University of Nebraska Medical Center, Omaha, NE
College of Pharmacy
Pharm.D., Doctor of Pharmacy, May 1991

Nebraska Wesleyan University, Lincoln, NE
B.S., Biology, May 1984

Library Experience:

Assistant Professor and Science & Technology Librarian
Iowa State University Library, Ames, IA
October 2003 to present

I have reference, instruction, and collection development responsibilities for Animal Science; Ecology, Evolution, and Organismal Biology; Genetics, Development, and Cell Biology; Horticulture; Plant Pathology and Veterinary Medicine. Provide research/reference assistance to students and faculty at Parks Library and the Veterinary Medical Library. Participate in collection development/management activities in designated subject areas. Responsible for providing course-related instruction to specific undergraduate/graduate level courses and providing seminars to faculty and graduate students on library resources and scholarly publishing tools.

Lecturer

University of Nebraska-Lincoln Libraries, Lincoln, NE
January 2003 to October 2003

Provided reference assistance to patrons. Assisted the Library 110 (library instruction course) staff in reviewing Library 110 final projects and made suggestions for improvement to students. Indexed Mari Sandoz personal correspondence for the Archives/Special Collections department. Participated in a virtual reference pilot project.

Library Intern

McGoogan Library of Medicine, University of Nebraska Medical Center, Omaha, NE
June 4, 2003 - July 17, 2003

Completed a seven week practicum. Designed a computerized tutorial about keyword searching of the *International Pharmaceutical Abstracts* database.

Cataloger

Nebraska State Historical Society, Lincoln, NE
December 2001 to January 2003

Assigned Library of Congress Subject Headings to describe photographs, letters, pamphlets, film clips, and other items selected for inclusion in the "American Bounty: The Story of Food" database.

Previous Positions:**Staff Pharmacist**

Jim's Home Health Supplies, Lincoln, NE
September 1997 to September 2000

Staff Pharmacist

Four Star Drug, Lincoln, NE
September 1991 to September 1997

B. Scholarship**Peer Reviewed Articles:**

Dinkelman, Andrea L., Jeanine E. Aune, and Gail R. Nonnecke. "Using an Interdisciplinary Approach to Teach Undergraduates Communication and Information Literacy Skills." *Journal of Natural Resources and Life Sciences Education*. 39 (2010): 137-144. Available: <http://www.jnrlse.org/view/2010/e10-0005u.pdf>

Dinkelman, Andrea L. "Using Course Syllabi to Assess Research Expectations of Biology Majors: Implications for Further Development of Information Literacy Skills in the Curriculum," *Issues in Science & Technology Librarianship* 60 (Winter 2010). Available: <http://www.istl.org/10-winter/refereed3.html>.

Dinkelman, Andrea L. "See a Need, Fill a Need" -- Reaching out to the Bioinformatics Research Community at Iowa State University," *Issues in Science & Technology Librarianship* 52 (Fall 2007). Available: <http://www.istl.org/07-fall/refereed1.html>

Dinkelman, Andrea and Kristine Stacy-Bates. "Accessing E-books through Academic Library Web Sites," *College & Research Libraries* 68, 1 (2007): 45-58.

In Press

Dinkelman, Andrea L., Ann R. Viera, and Danelle Bickett-Weddle. "The Role of Veterinary Medical Librarians in Teaching Information Literacy." *Journal of Veterinary Medical Education*. Accepted for publication on 2/24/2011.

National Conference Presentation:

Aune, Jeanine E., Andrea L. Dinkelman, and Gail R. Nonnecke. "Interdisciplinary Learning: Combining Communication, Information Literacy, and Subject Area in a First-Year Composition Course," presented at the 12th Annual National Learning Communities Conference. Indianapolis, IN, November 2007.

State Conference Presentations:

Dinkelman, Andrea L. and Kristine Stacy-Bates. "Accessing E-Books Through Academic Library Web Sites," presented at the spring 2005 Iowa Library Association/Association of College and Research Libraries Conference, Ames, IA, May 2005.

Dinkelman, Andrea L. "Bioinformatics and Genomics for Librarians," presented at the spring 2005 Iowa Library Association/Association of College and Research Libraries Conference, Ames, IA, May 2005.

Iowa State University Conference Presentations:

Aune, Jeanine E., Andrea L. Dinkelman, and Jane Jacobson. "Beyond Classroom Textbooks: Incorporating Fiction & Nonfiction in the Learning Community Experience," presented at the 8th Annual Learning Communities Institute. Ames, IA, May 2006.

Aune, Jeanine E., Andrea L. Dinkelman, Kevin Saunders, Noreen Siddiqui, Pat Walsh, and Jill Wyckoff. "Common Reading Program for Uncommon Learning," presented at the annual 9th Annual Learning Communities Institute. Ames, IA, May 2007.

Aune, Jeanine E. and Andrea L. Dinkelman. "Interdisciplinary Learning: Combining Communication, Information Literacy, and Subject Area in a First-year Composition Course," presented at the 10th Annual Learning Communities Institute. Ames, IA May 2008. The presentation was based on our November 2007 presentation at the National Learning Communities Conference in Indianapolis, IN.

Conference Poster Presentations:

Schmidt, Cindy and Andrea L. Dinkelman. "Guiding Students Past Obstacles on the Bridge to Successful Searching: A Comparison of Two Teaching Methods," presented at the Midcontinental Chapter of the Medical Library Association Conference, Salt Lake City, UT. September 2005.

I developed the content of the web-based tutorial that is described in the poster.

Dinkelman, Andrea L. "1 Librarian + Teaching Faculty = Successful Collaborations," presented at the Association of College and University Biology Educators Conference: The Revolution and Evolution of Biology Education: Where 50 Years Can Take Us. Decatur, IL. October 2006. Available: http://www.public.iastate.edu/~adinkelm/ACUBE_Poster_Actual.pdf

Conference Discussion

Dinkelman, Andrea L. "Budgeting for E-Books," Facilitated a roundtable discussion at the Association of College and Research Libraries 12th National Conference: Currents and Convergence: Navigating the Rivers of Change. Minneapolis, MN. April 9, 2005.

Award

Received the "Best Research Poster" award for "Guiding Students Past Obstacles on the Bridge to Successful Searching: A Comparison of Two Teaching Methods" following the Midcontinental Chapter of the Medical Library Association Conference, Salt Lake City, UT. September 17-20, 2005. There were fourteen posters at the conference.

C. Areas of Position Responsibilities and Activities

1A. Professional Practice

Reference Contributions

From January 2004 to December 2007, I answered questions at the Help and Information desk at Parks Library (main library) approximately 10 hours per week. I also answered questions from the Library's chat and email reference service. These duties were reassigned when I started keeping office hours (2-3 days per week) at the Veterinary Medical Library in January 2008.

Provide research/reference assistance (appointments, email, phone) to students and faculty at Parks Library and the Veterinary Medical Library.

Presented programs for reference and instruction staff development sessions:

"Bioinformatics and Molecular Biology for Librarians", March 2005, provided an overview of molecular biology and bioinformatics resources.

“Moving Away from Lecture-Demo Mode in the Library Instruction Classroom”, November 2005, discussed classroom activities used in English 105 courses.

Facilitated a discussion with Susan Vega Garcia (Head of Instruction) regarding ISU Learning Communities and current librarian involvement as well as the potential of future involvement, November 2006.

Provided training on using PubMed. Discussed significant differences between PubMed and Silverplatter MEDLINE, March 2007.

Created LibGuides® (library resource guides) for the following areas: Animal Science, Bioinformatics and Computational Biology, Ecology, Evolution, and Organismal Biology, Genetics, Development, and Cell Biology, Microbiology, and Veterinary Medicine. I maintain the guides and update them as needed. Available:
<http://instr.iastate.libguides.com/profile.php?uid=1531>

Created LibGuides® for each class (VM-1, VM-2, VM-3, VM-4) at the College of Veterinary Medicine. Course reserve information is included in each guide. I maintain the guides and update them as needed. Available: <http://instr.iastate.libguides.com/profile.php?uid=1531>

Instruction Contributions

See Section 3, Teaching.

Collection Development Contributions

Participate in collection development/management in designated subject areas for the general and reference collections at Parks Library and the Veterinary Medical Library. Specific activities include the following:

Collection development management team leader for the Agriculture, Veterinary, and Life Sciences team. March 2010 – present. Corresponded with team members in person and via email to gather input on various collection development issues/projects.

Manage acquisitions funds of both monographs and serials.

Order monographs. Used circulation statistics to identify heavily used areas of the collection and purchased electronic books in selected areas.

Completed weeding projects in assigned subject areas and reference collections at Parks Library and the Veterinary Medical Library.

Based on an extensive weeding project of the R (medicine) call number range, revised the approval plan profile for medicine to better reflect the needs of the collection and bibliographer subject responsibilities. This effort was coordinated with four subject librarians who also select materials within this call number range.

Revised and updated collection development policies for Biochemistry, Biophysics, and Molecular Biology; Ecology, Evolution, and Organismal Biology; Genetics, Development, and Cell Biology; and General Medicine.

Maintained contact (via email and/or in person) with designated faculty liaisons regarding collections decisions and management.

Inform faculty, staff, and graduate students in assigned subject areas about new additions to the collection and/or new library services via periodic newsletters.

Reviewed serials lists for assigned subject areas and identified serials to recommend for canceling for a journal cancellation project in 2009.

Completed a review of serials whose call numbers begin with QK for a Serials Review Project during fall 2009. The libraries at Iowa State University, the University of Iowa, and the University of Wisconsin-Madison are engaged in a pilot project to assess the feasibility of maintaining a single, shared copy of the printed volumes of selected journals.

Additional Professional Practice Activities

Science Fair Judge. State Science & Technology Fair of Iowa, April 2005.

Served as a guest speaker (April 2004 & April 2007) for a science reference course at the University of Illinois, Graduate School of Library and Information Science. Delivered a live presentation via telephone and the internet.

Participated in the ISU Employee Health Fair. Colleague Diana Shonrock and I staffed a table featuring library resources related to health and nutrition, May 2007.

Organized “A Field Guide to GenBank and NCBI Molecular Biology Resources” seminar for faculty and graduate students, March 2006. 170 ISU faculty and graduate students attended a 3-hour morning presentation, and 127 participants attended the hands-on computer sessions.

Organized four NCBI mini-courses for faculty and graduate students, April 2007. The average number of participants at each mini-course was 39.

Continuing Education:

Medical Informatics

- Medical Informatics MBL/NLM Course Fellow - Marine Biological Laboratory, Woods Hole, MA. Sponsored by the National Library of Medicine. Certificate, Fall Course, (9/20/09 – 9/26/09). (Fellows are selected through a competitive, national selection process; approximately 60 persons are selected to attend this course. It is offered in June and September.)

Bioinformatics

- “Field Guide to GenBank and NCBI Molecular Biology Resources” seminar at the National Animal Disease Center in Ames, IA, May 20, 2004.
- “Genomics, Proteomics, and Bioinformatics for Librarians” at the Medical Library Association meeting in Washington, DC, May 22, 2004.
- “NCBI Introduction to Molecular Biology Information Resources” at the Health Sciences Library at the University of Illinois-Chicago, December 14-17, 2004
- “NCBI Advanced Workshop for Bioinformatics Information Specialists” in Bethesda, MD, August 7-11, 2006

Other Programs:

- “Instant Messengers, Cell Phoners, and File Sharers: An Educator’s Guide to Gen Y” seminar at the University of Nebraska-Lincoln Libraries, April 6, 2004.
- Des Moines Area Community College Information Literacy Forum, 2004-2007
- “Introduction to Study Design and Critical Appraisal” at the Medical Library Association meeting in Chicago, IL, May 17, 2008.
- “Web 2.0 101: Introduction to Second Generation Web Tools” 8-week online course sponsored by the Medical Library Association. The course explored many Web 2.0 technologies (e.g. blogs, wikis, social networking, social bookmarking, web office tools, photo sharing, podcasting). March 2008 – April 2008.
- “Evidence-based Public Health” at the Medical Library Association meeting in Washington, DC, May 22, 2010.

Iowa State University-sponsored programs:

- Teaching & Learning Circle about incorporating problem-based learning into the curriculum, October-December 2004.
- Teaching & Learning Circle about *What the Best College Teachers Do*, a book by Ken Bain, October 2005.
- Teaching & Learning and Social Networking Technology, October 2008
- Social Learning with Emerging Technologies, April 2009
- Community of Educational Technology Support (ComETS) symposium, 2009-2010

1B. Professional Practice Service:

National Memberships:

American Library Association (ALA). Member of the Association of College and Research Libraries (ACRL) division, Instruction Section, and Science & Technology Section.

Medical Library Association (MLA). Member of the Veterinary Medical Libraries section and the Molecular Biology and Genomics Special Interest Group

Veterinary Medical Libraries Section.

Secretary, May 2009-present

Role: Prepare and distribute minutes of all Section Business and Executive Board meetings, be responsible for incoming and outgoing correspondence, maintain current lists of all officers, representatives, and committee members and their terms of office, and distribute the Section Bylaws.

Electronic Health Records Task Force

Role: Member, October 2009-present

Charge: Explore how to encourage connections between publishers of veterinary information resources and veterinary health record/practice management systems developers and vendors. Compile a list of information providers who have content that could be beneficial at point of care in veterinary systems. Coordinate with the American Animal Hospital Association's Electronic Health Records Task Force which is working closely with the systems vendor community.

Molecular Biology and Genomics Special Interest Group

Volunteer reviewer, December 2004 & November 2005

Role: Volunteered to review abstracts for contributed papers and submitted recommendations to the MLA program committee for the 2005 & 2006 Medical Library Association meeting.

State Memberships:

Iowa Library Association (ILA). Member of the ILA Chapter of the Association of College & Research Libraries section.

ILA/ACRL Newsletter Committee. Member, January 2005 – December 2006.

Charge: Prepare a Chapter newsletter for periodic distribution.

Role: Served as the ISU representative to the ILA/ACRL Newsletter Committee and contributed ISU news to the newsletters published in 2005 and 2006. Newsletters are archived at: <http://www.iowaacrl.org/content/newsletter>

ILA Ad Hoc Committee on the Review of Online Library Science Programs. Member, October 2009 – June 2010.

Charge: To discover, compile, and evaluate online programs leading to the MLS/MLIS degree available to Iowa residents. The Committee (7 members) will report its findings to the ILA Executive Board with recommendations about whether and how the Association should promote any such programs to its members.

Role: Each committee member is reviewing 4-5 MLS/MLIS programs; all of the information will be summarized and compiled into one report.

Iowa State University Library Committees:

Reference & Instruction Training Task Force. Member, Fall 2005-Spring 2006.

Charge: Plan and schedule staff training sessions for the Reference & Instruction Department

Role: Assisted in planning the reference staff training sessions for the 2005-2006 school year. Contributed ideas for sessions and contacted potential speakers.

e-Library Redesign Committee. Member, May 2006–November 2007.

Charge: Establish a public iterative process to obtain input for a set of principles and functional specifications/requirements that support the eventual redesign of the library website. Recommend a set of principles and functional specifications/requirements to the Dean of the Library.

Role: Appointed by Dean of the Library. This 5-member committee met regularly for 2-4 hours per week. In addition to the scheduled, weekly meetings, I spent a significant amount of time doing background research related to website design. The following documents were produced as a group and were given to the Dean of the Library at the conclusion of the project: Principles for Site Design and Functionality, Site Objectives, Vision of the User Experience, Vision of the Library Faculty & Staff Experience, and User Needs.

Instruction Spaces Working Group. Member, September – October 2007.

Charge: Compiled ideas for use in the development of a grant proposal which focused on seeking funds to renovate library space for a 48-station computer classroom.

Role: This group met via email from September – October 2007. The recommendations were compiled and used by a later committee that wrote the grant proposal.

2. Teaching:

Library 160

Served as the instructor for Library 160: Finding, Using, and Evaluating Information

- Fall 2004 – Spring 2005. Taught four sections each semester.
- Fall 2010. Taught two sections.

Course-related instruction. The following chart summarizes my course-related instruction activities.

Course-related Instruction – Spring 2004 – Fall 2010

Course Number & Name	Date(s)	Involvement
Animal Ecology 531: Conservation Biology	Spring semester 2009	Presentation
Animal Science 211: Issues Facing Animal Science	Spring semester 2005	Presentation and follow-up visit
Animal Science 501: Survey of Animal Disciplines	Fall semesters 2008-2010	Presentation

BCB 444/544: Introduction to Bioinformatics	Fall semesters 2007-2010	Presentation
BCB 691: Faculty Seminar in Bioinformatics and Computational Biology	Fall semester 2008	Presentation
Biology 312L: Ecology Laboratory	Summer 2009	Presentation to two laboratory sections.
Biology 312L: Ecology Laboratory	Fall semester 2009	LibGuide®
Biology 313L: Genetics Laboratory	Spring semesters 2006-2009 Fall semesters 2006-2008	Presentation. Worked with faculty coordinators to develop lab exercises. This is a large enrollment course; the presentation was given to 6-8 sections each semester.
Biology 315: Biological Evolution	Fall semesters 2005-2010 Spring semester 2010	Presentation
Biology 394A: International Field Trips in Biology	Spring semesters 2004-2006	Presentation and individual appointments.
BMS 345: Case Study I	Fall semesters 2008-2010	Presentation. This course is for first-year veterinary medicine students.
EEOB 507: Advanced Animal Behavior	Spring semester 2010	Presentation and LibGuide®
EEOB 590: Professional Skills for Biologists	Spring semester 2007	Presentation
English 250/Animal Science Learning Community	Fall semester 2010	2 presentations, LibGuide®, review assignments
English 105/English 250: Horticulture Learning Community	Spring semesters 2004-2010	2 presentations, LibGuide®, review assignments, attend student poster session.
English 105/English 250: Microbiology Learning Community	Fall semester, 2004-2010	2 presentations, LibGuide®, review assignments, attend student poster session.
English 105: BEST Learning Community	Fall semesters 2005, 2006	Presentation
English 105: Honors section	Fall semester 2006	Collaborated with colleague, Kris Stacy-Bates. Presentation, review assignments, attend student poster session
Genetics 110: Genetics Orientation	Fall semesters 2007-2009	Presentation
Genetics 491: Undergraduate Seminar	Fall semester 2009	Presentation and LibGuide®

Globe 201: Global Resource Systems	Spring semester 2010	Presentation and LibGuide®
Health Studies 350: Human Diseases	Fall semester 2010	LibGuide®
Microbiology 604: Seminar	Spring semester 2010	Presentation
Plant Pathology 692: Molecular Biology of Plant-Pathogen Interactions	Fall semester 2010	Presentation
VPTH 530X: Teaching & Learning in Veterinary Medical Education	Fall semester 2008, 2010	Presentation
VPTH 656: Cellular & Molecular Pathology II – Mechanisms of Cancer	Spring semesters 2008, 2010	Presentation and LibGuide®

Instruction Associated with Summer Research Programs hosted at Iowa State University

Course	Date	Involvement
Center for Food Security & Public Health summer internship program for DVM students	Summer 2010	Presentation
Computational and Systems Biology Summer Institute – research program for undergraduates	Summers 2007-2010	Presentation
Program for Women in Science and Engineering Summer Internship – research program for undergraduates	Summer 2007	Presentation. Collaborated with colleague, Kris Stacy-Bates
Summer Scholar's Research Program – research program for students enrolled in the DVM program at the College of Veterinary Medicine	Summers 2008-2010	Presentation
Summer Research Internship Program For Biology/Life Science School Teachers (grades 7-12) in Molecular Biology, Biotechnology and Genomics	Summers 2004-2009	Presentation and resource guide. Available: http://www.public.iastate.edu/~adinkelm/Molecular_Biology_Resources.htm

Additional Teaching Activities:

Collaborated with colleague, Susan Vega Garcia (Head of Instruction) at the yearly University Teaching Seminar for new faculty to present “Beyond Google: What the Library Can Do for You and Your Students.” During my segment of the presentation, I shared my experiences related to collaborating with instructors and incorporating information literacy components into various courses. August 2005 & August 2006.

Provided orientation sessions about library resources for new graduate students for the following programs:

- Biochemistry, Biophysics, and Molecular Biology, August 2005 & August 2006.
- Interdepartmental Genetics and Toxicology, August 2005.
- Bioinformatics and Computational Biology, November 2006 & August 2007.

Served as a guest speaker at the following department, graduate student, or student organization seminars:

- Invited guest speaker at a Premed Club meeting, October 2005.
- Department of Animal Science “Meat Science and Muscle Biology” Seminar, February 2008.
- SCAVMA (Student Chapter of the American Veterinary Medical Association) meeting, “Free Health Resources from the National Library of Medicine,” December 2009.
- Ecology, Evolution, and Organismal Biology and Genetics, Development & Cell Biology Faculty Seminar, presented results of biology course syllabi research project to faculty, February 2010.
- Ecology, Evolution, and Organismal Biology graduate student seminar, “Introduction to Endnote Web,” February 2010.
- College of Veterinary Medicine. Collaborated with colleague, Stephen McMinn, to provide three seminars to College of Veterinary Medicine faculty, graduate students, and staff about Endnote and Endnote Web, March 2010.
- College of Veterinary Medicine. Gave a presentation, “Grand Rounds: Tips for Finding References” to third-year students. April 2010.

Award

Learning Communities Collaborator Award. Iowa State University. The award was presented at the Learning Communities Institute on May 7, 2007. This award honors an individual in the Iowa State community who has demonstrated the spirit of learning communities through collaboration. I was honored for my efforts related to English 250/Horticulture and Microbiology Learning communities and the common reading program.

3. Institutional Service:

Iowa State University

Learning Community Curriculum and Faculty Development Subcommittee. Member, September 2005 – present.

Charge: Provides leadership in enhancing faculty involvement in learning communities at Iowa State University. Specific goals include: review of curricula issues that impact learning communities, increasing faculty interactions with students, and enhancing faculty scholarship and scholarly teaching.

Role: Library representative to the subcommittee. I have been involved in the following projects:

Update and maintain the list of “Teaching Related Journals” (<http://www.celt.iastate.edu/sotl/journals.html>) that was originally compiled by former subcommittee member and library colleague, Diana Shonrock. I update the list yearly.

Helped facilitate and presented at a Learning Community seminar (April 2006) regarding the “pilot” mini-grant program for incorporating “common readings” into learning community activities. Compiled information about other “common reading” programs across the U.S. See: http://www.lc.iastate.edu/reading_programs.html I update this yearly. I also participated in additional seminars that were held in March 2007 and November 2007.

Computer, Library & Information Management Committee. College of Veterinary Medicine. Ex-officio member, Fall 2008 – present.

Charge: Oversees appropriate expenditure of student computer fee funds at the College of Veterinary Medicine. Provide input to information technology staff at the College regarding the use of technology and its role in enhancing veterinary education.

Role: Represents the interests of the Veterinary Medical Library.

Iowa State University Library

Secretary. Library Faculty. June 2004 – May 2005

Role: Serve as a member of the Executive Committee. Advise the Dean of the Library on Library faculty issues. Record minutes of monthly meetings. Prepare and distribute minutes. Issue agenda prior to faculty meeting.

Vice-Chairperson. Library Faculty. June 2005 – May 2006

Role: Serve as a member of the Executive Committee. Advise the Dean of the Library on Library faculty issues. Assume duties of Chairperson if that person is absent. Participated in meeting program planning for the 2005-2006 school year.

Science & Technology Archivist Search Committee. Member, December 2008 – February 2009. The work of this committee was suspended until further notice due to Library budget constraints.

Faculty Nominating Committee. Chair. January 2010 – December 2010

Charge: Solicits nominations and conducts elections of officers and members of standing committees, unless provided for otherwise.

Role: Chair

Digital Commons Planning Group. Member. February 2011 – present

Charge: Plan for the implementation of Bepress's Digital Commons (DC) as an institutional repository for Iowa State University.

Role: Divisional liaison for the Reference & Instruction department