



DESIGN RESEARCH TO GATHER INFORMATION ON MULTIPLE TOPICS.

By Patricia Kirkwood
University of Arkansas
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IT USE TO BE A PROGRESSION

Write about your job

Joint authorship

Some interesting piece of research.

Today, for newer professionals, more is expected, more quickly.

EARLY RESEARCH WAS ALSO SERVICE

O'Neill, Patricia E., *Salary Survey 2000: Scientific information professionals with a focus on chemistry*, Chemical Information Division, American Chemical Society, 2002,
O'Neill, Patricia E., "Early results from the CINF 2000 Salary Survey", *PIUG Newsletter*, Patent Information Users Group, October 2001

O'Neill, Patricia E., and Gary Wiggins, *Salary Survey 1994: Scientific information professionals with a focus on chemistry*, Chemical Information Division, American Chemical Society, 1995

O'Neill, Patricia E., and Joanne Witack, *Salary Survey: Scientific information professionals with a focus on chemistry*, Chemical Information Division, American Chemical Society, 1992

PRESENTING WAS SUFFICIENT FOR NON-TENURE TRACK INSTITUTIONS

O'Neill, Patricia E., *Preparing students for the graduate research library*, Division of Chemical Information, American Chemical Society, invited paper at 219th National ACS Meeting, San Francisco, CA, 2000

O'Neill, Patricia E., *Electronic Users Group: Keeping trained searchers up to date*, Lucille M. Wert symposium on chemical information, American Chemical Society, invited paper at 211th ACS National Meeting, New Orleans, LA 1996

O'Neill, Patricia E. and Donna Hudson, *Instruction programs for graduate students -- two different programs, two different environments*, American Chemical Society, poster, 206th National ACS Meeting, Chicago, IL, 1993

O'Neill, Patricia E., *Transitions between academic and industrial environments: changing your emphasis*, American Chemical Society, invited paper at 206th National ACS Meeting, Chicago, IL 1993

O'Neill, Patricia E., *The Chemical information industry: opportunity knocks*, American Chemical Society, invited paper at 201st National ACS Meeting, Atlanta, GA 1991

WRITE ABOUT YOUR WORK

Kirkwood, Patricia E., “*Information Obstacle Course: Successfully Incorporating Chemical Information into Your Curriculum*,” workshop, lead presenter, Biennial Conference on Chemical Education, Purdue, August 2006.

<http://acscinf.org/dbx/mtgs/BCCE/2006/index.asp>

Kirkwood, Patricia E., “How to find material properties data,” *Handbook of Materials Selection*, John Wiley & Sons, Inc, New York, 2002, 426-445

O’Neill, Patricia E., “Chemical Librarianship: An opportunity to be involved, *In Chemistry*, 1991, 2, 1, 12-15

TRANSITIONING TO A NEW INSTITUTION — USE WHAT YOU KNOW TO GET STARTED

Suggest research project with another new librarian (both mid-career)

On topic that would have worked for my previous institution

Used knowledge and skills on circulation, acquisitions, and a procedure that would have benefited the small school I HAD worked at

Multifaceted, but answered only one question.

Gibson, Teresa and Patricia E. Kirkwood, "A Purchase-on-Demand Pilot Project at the University of Arkansas for the Proceedings for the Materials Research Society Symposia," *Journal of Interlibrary Loan, Document Delivery & Electronic Reserve*, 2009, 19:1, 47-56

MOVED TO ENGINEERING AND ARKANSAS

Started a bibliometric research project.

Time intensive methodology

I was scooped

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Materials Used by Master's Students in Engineering and Implications for Collection Development: A Citation Analysis

Virginia Kay Williams

Assistant Professor/Assistant Collection Development Officer

gwilliams@library.msstate.edu

Christine Lea Fletcher

Assistant Professor/Government Documents and Microforms Reference Librarian

cfletcher@library.msstate.edu

Mississippi State University
Mississippi State, Mississippi

Abstract

The purpose of this study is to determine the materials used by graduate students in engineering and to guide library collection development decisions. A literature review shows citation studies are useful in developing core journal lists and determining appropriate allocations between journals and monographs. This case study found that journals (38%), conference papers (19%), and books (18%) are the most heavily used formats, with books aging more slowly than other formats. Core journal lists are developed by total citations and by number of citing authors. Variations among engineering disciplines were identified, including variations in format, age, and subject classification of journals. Areas for further research are noted.

I WAS ABLE TO RECONFIGURE WHAT I DID

Kirkwood, Patricia E., *Using engineering theses and dissertations to inform collection-development decisions, especially in civil engineering*, [Proceedings of the American Society for Engineering Education Annual Conference](#), Austin, TX, June 2009

The Mississippi work had not focused as much on the non-journal materials, so my work focused on books and grey literature used by civil engineers.

UNEXPECTED BONUS

By doing something locally relevant, I got the interest of the department I wrote about.

Every graduate student must meet with me (or take one of my classes) before their research proposal is approved.

Not formal instruction, but it works. Faculty routinely send their undergraduate students to me as well.

Collection development was more focused.

THE NEXT STUDY

Purpose – review CiteSeer to determine if it was adequate as a database for the University of Arkansas. Perhaps we could avoid a subscription cost?

Became aware the research nature of CiteSeer limited its usefulness but also created an uncomfortable situation as a faculty member was using it to develop ontologies and other tools

Refocused the research to “develop a new method” for more in-depth review of databases.

Kirkwood, Patricia E., *Faculty publication checklists: A quantitative method to compare traditional databases to web search engines.*, Proceedings of the American Society for Engineering Education Annual Conference, San Antonio, TX, June 2012.

MULTIPLE GOALS FOR A RESEARCH PROJECT

Collection development goals:

- Review a specific product, CiteSeer
- Review and compare multiple databases with “real” local data
- Find out if the publications of our faculty were included in major databases. If not, were those resources needed?

Bibliometric goals:

- Learn about our faculty research productivity
- Compare our faculty work with similar work

General Goal

- Learn more about the research of a specific department
- Interact with a department where there was little interaction

CURRENT RESEARCH

H-Index analysis

- How and why are H-Indexes different when using different citation sources and databases

Collection development goals

- Review several database for local needs as well as inclusiveness

Public service goals

- Learn more about two department
- Develop some real examples to educate new faculty on H-Index and the need to keep track of their publications

Institutional Goal

- Find a way to help faculty clearly describe the impact of their research, especially non-journal publications

DO YOU HAVE METHODS THAT YOU USE TO INTENTIONALLY DOUBLE DIP WITH YOUR RESEARCH?

Citation Bibliometrics

- Collection Development
- Database Analysis