

**Donna T. Wrublewski, Ph. D.**

Sherman Fairchild Library, California Institute of Technology  
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**Experience**

Chemistry and Biological Sciences Librarian – California Institute of Technology  
February 2013 – Present

Provide subject-specialized reference and instruction services to the Institute’s programs in Chemistry, Biology, and Biological Engineering. Responsible for the overall development, management and coordination of collections in these disciplines.

Assistant University Librarian – Marston Science Library, University of Florida  
January 2010 – January 2013

Provide subject-specialized reference and instruction services to the University’s programs in Chemistry, Chemical Engineering, Materials Science & Engineering, and Physics. Responsible for the overall development, management and coordination of collections in these disciplines.

Graduate Research Assistant – Polymer Science & Engineering Department, University of Massachusetts Amherst  
September 2000 – April 2010

Correlated physical aging in modified polycarbonate with chemical structure through fracture toughness measurement. Developed mechanical property characterization techniques for various laminated materials using ultrasonic spectroscopy. Determined relevant parameters in modeling composite laminate failure and characterized polymer composite rheology in conjunction with work at Solutia.

Research Intern / Junior Scientist – Solutia Inc.  
New Product Development Group (January 2005 – January 2008)  
Analytical and Technical Services Group (February 2008 – August 2008)

Described structure-property relations of new polyvinyl butyral composite formulations that were documented in internal publications and further explored in thesis work. Evaluated new rheological characterization procedures and made recommendations for new analytical methods based on present capabilities. Provided characterization testing in support of new product development research.

**Education**

2011	Doctor of Philosophy Polymer Science & Engineering Dissertation title: “Mechanical Evaluation Methods for Polymer and Composite Systems”	University of Massachusetts Amherst
2001	Master of Science Polymer Science & Engineering	University of Massachusetts Amherst
2000	Bachelor of Science Chemical Engineering Minors: Materials Science & Engineering, Writing	Massachusetts Institute of Technology

## Scholarly Publications

### Book Chapters

Wrublewski, D. Searching for Polymers. In *Chemical Information for Chemists*; Currano, J., Roth, D., Eds.; Royal Society of Chemistry: Cambridge, 2014.  
Abstract: <http://dx.doi.org/10.1039/9781782620655-00206>

### Refereed Publications

Bennett, D. B., Leonard, M., Wrublewski, D. (2012) Comparing Engineering Departments Across Institutions: Gathering Publication Impact Data in a Short Timeframe. *Issues in Science and Technology Librarianship*, 68 (Winter 2012). <http://dx.doi.org/10.5062/F42R3PMS>

## Grants

“Gaming Against Plagiarism”, National Science Foundation ISS EESE Grant #1033002  
Team Member (September 2010 – January 2013) – collaborator on content development, user testing, evaluation, professional presentations, and promotional material

## Conference Presentations & Duties

“How do you define the value of something if it's free? Observations on Caltech's Institutional Repository.” **D. Wrublewski**, G. Porter. American Chemical Society Spring 2015 National Meeting & Exposition, Denver, CO, March 22-26, 2015. <http://resolver.caltech.edu/CaltechAUTHORS:20150422-142236228>

“Evolving library services in the ever-changing world of chemical information: From printed to electronic to networked.” K. Buxton, L. Cleary, J. Painter, G. Porter, **D. Wrublewski**. American Chemical Society Fall 2014 National Meeting & Exposition, San Francisco, CA, August 10-14, 2014.  
<http://resolver.caltech.edu/CaltechAUTHORS:20140815-100425283>

“Engaging Users with Technology: Gaming at the University of Florida Libraries.” **D. Wrublewski**, A. Buhler, M. Leonard. Special Libraries Association 2014 Annual Meeting, Vancouver, British Columbia, Canada, June 8-10, 2014. <http://resolver.caltech.edu/CaltechAUTHORS:20141031-135210825>

“On the fly collection development to support emergent energy research initiatives.” **D. T. Wrublewski**, G. S. Porter, D. L. Roth. American Chemical Society Spring 2014 National Meeting & Exposition, Dallas, TX, March 16-20, 2014. <http://resolver.caltech.edu/CaltechAUTHORS:20140327-131416817>

“Anything BUT overlooked: Librarians teaching scientific communication skills at the University of Florida.” **D. T. Wrublewski**, A. Buhler, S. Gonzalez. American Chemical Society Fall 2013 National Meeting & Exposition, Indianapolis, IN, Sept. 8-12, 2013.  
<http://resolver.caltech.edu/CaltechAUTHORS:20131016-132055093>

“Food for Thought: Alternative Careers in Chemistry.” D. Wrublewski, P. Meindl, *Organizers*. American Chemical Society Spring 2013 National Meeting & Exposition, New Orleans, LA, April 7-11, 2013.  
Abstracts: <http://bulletin.acscinf.org/node/414>  
Summary: <http://bulletin.acscinf.org/node/463>

“Assessment of Information Literacy Skills.” M. Ochoa, **D. Wrublewski**. 5<sup>th</sup> Annual Florida Statewide Symposium - Engagement in Undergraduate Research, Orlando, FL, Oct. 19-20, 2012.

<http://ufdc.ufl.edu/IR00001312/00001/citation>

“Digital rights management: Perspectives from a research library.” T. Cataldo, **D. T. Wrublewski**.

American Chemical Society Fall 2012 National Meeting & Exposition, Philadelphia, PA, August 19-23, 2012. <http://ufdc.ufl.edu/IR00001398>

“Use of an Institutional Repository to Promote Chemical Sciences Collections at the University of Florida.” **D. T. Wrublewski**, L. N. Taylor, D. Benson, L. Widmer. American Chemical Society Fall 2012 National Meeting & Exposition, Philadelphia, PA, August 19-23, 2012.

<http://ufdc.ufl.edu/AA00012153/00001/citation>

“Discovering Research & Communicating Science: Librarians Facilitating STEM Learning in a Credit-bearing Course.” **M. Johnson**, A. Buhler, D. Wrublewski, S. Gonzalez. American Library Association Annual Conference 2012, Anaheim, CA, June 21-26, 2012. <http://ufdc.ufl.edu/IR00001081/00001/citation>

“Faculty-Librarian Partnership for a Student Research Presentation in a Physical Chemistry Laboratory Course.” M. G. Ucak-Astarlioglu, **D. T. Wrublewski**. American Chemical Society Spring 2012 National Meeting & Exposition, San Diego, CA, March 25-29, 2012.

“Use of Course Reserves as a Gentle Introduction to the Chemical Literature.” **D. T. Wrublewski**.

American Chemical Society Spring 2012 National Meeting & Exposition, San Diego, CA, March 25-29, 2012. <http://ufdc.ufl.edu/IR00001358>

“Providing Comparative Data on Published Research Impact (Internally and Externally).” D. B. Bennett, V. I. Davis, M. Leonard, **D. T. Wrublewski**. American Chemical Society Spring 2012 National Meeting & Exposition, San Diego, CA, March 25-29, 2012. <http://ufdc.ufl.edu/IR00000776>

“Collaboratively Supporting Undergraduate Research: the Journal of Undergraduate Research and the Libraries' Digital Collections.” **Laurie Taylor**, Marilyn Ochoa, Donna Wrublewski, Dina Benson, Lourdes Santamaria-Wheeler, Mark Sullivan. 2<sup>nd</sup> Florida Statewide Symposium for Engagement in Undergraduate Research, Orlando, FL, October 14-15, 2011. <http://ufdc.ufl.edu/AA00005509>

“Elements of Research Misconduct.” M. Leonard, **D. Wrublewski**. American Chemical Society Fall 2011 National Meeting & Exposition, Denver, CO, August 28-September 1, 2011

<http://ufdc.ufl.edu/IR00000672>

“The University Library: Supporting (And Simplifying!) Your Research Needs.” **Marilyn Ochoa, Donna Wrublewski**. [Colloquium] 1<sup>st</sup> Annual Florida Statewide Symposium: Excellence in Undergraduate Research, University of North Florida, Jacksonville, FL, March 5, 2011

## Interviews / Profiles

“Meet Your New CINF Membership Chair: An Interview with Donna Wrublewski.” S. Korolev. *Chemical Information Bulletin*, 67(2). <http://bulletin.acscinf.org/node/742>

“@WORK: Donna Wrublewski.” N. Crabbe. Gainesville Sun, January 29, 2012.

Summary: <http://www.gainesville.com/article/20120129/ARTICLES/120129473>

Archived:

<https://web.archive.org/web/20120319143808/http://chalkboard.blogs.gainesville.com/2012/01/u-f-librarian-teaches-answer-to-question-of-life-the-universe-and-everything/>

“Profile: Chemistry Librarian.” L. K. Boerner. Just Another Electron Pusher, C&EN Blogs, November 17, 2010. <http://cenblog.org/just-another-electron-pusher/2010/11/profile-chemistry-librarian/>

### **Non-Scholarly Works**

“It Takes Two to Tango: A Symposium Honoring Dana Roth.” D. Wrublewski. *Chemical Information Bulletin*, 66(4). <http://bulletin.acscinf.org/node/666>

### **Awards**

2013 – 2015 Council on Library and Information Resources Postdoctoral Fellow  
California Institute of Technology

2012 Employee Excellence Award for Outstanding Accomplishments in Instruction and Training  
George A. Smathers Libraries, University of Florida, August 2012

### **Teaching Experience (sole instructor unless otherwise noted)**

#### Selected Course-Embedded Library Instruction, California Institute of Technology

Bi/BE 24 – Technical Communication for Biological Scientists and Engineers  
E 11 – Written Technical Communication in Engineering and Applied Science  
Wr 1 – Introduction to Academic Writing for Multilingual Writers

Present general library services overview in all sessions. Focus on search strategies in the context of an appropriate database for the subject (usually PubMed or Web of Science). Discuss research ethics and plagiarism in Bi/BE 24 and E11. Prepare LibGuides in support of instruction.

Bi 1 – Principles of Biology  
Ch 242 – Chemical Synthesis

Provide LibGuides detailing resources and methods for literature searching in support of student research projects.

#### Selected General Library Workshops, California Institute of Technology

Life Sciences Information Resources  
Chemical Information Resources  
Crystallography Information Resources  
Patents (co-instructor)

Provide general library services overview in all sessions. Life Sciences focuses on PubMed and Web of Science. Chemical Information covers SciFinder and Web of Science, and occasionally PubMed. Crystallography focuses primarily on the Cambridge Structural Database, as well as information about biological molecules found in other resources. Patents includes a brief overview of patent searching after a presentation by a member of the Caltech Office of Technology Transfer and Corporate Partnerships. Prepare LibGuides in support of instruction.

Honors Program Courses Taught as Adjunct Professor, University of Florida

*Discovering Research and Communicating Science*, co-instructor (Fall 2011, Fall 2012, 3 credits)  
Covered basic “soft research skills” including information searching & evaluation, poster preparation, and scientific presentations. Guest lectures from researchers around campus introduced students to research faculty and potential undergraduate research projects.

Fall 2011 Syllabus: <http://ufdc.ufl.edu/IR00001077>

*UnCommon Reading Program: The Hitchhiker's Guide to the Galaxy* (Spring 2011, Spring 2012), 1 credit)

Weekly reading assignments and quizzes focused on discussion of the book. Assignments were primarily creative, with the final project presented as a Guide entry about an aspect of the University. Topics also included information literacy, technology evolution, the work's historical context, and comparison of different manifestations of the work over time.

Selected Course-Embedded Library Instruction, University of Florida

CHM 2054L – Accelerated General Chemistry Laboratory (Fall/Spring, 2010-2012)

CHM 4411L/4413L – Physical / Biophysical Chemistry Laboratory (Fall/Spring/Summer, 2010-2012)

CHM 6620 – Advanced Inorganic Chemistry (Fall 2011)

ENC 3254 – Writing in the Disciplines (Fall/Spring, 2010-2012)

HSC 6506 – Epidemiology (co-instructor)

PHZ 4710 – Introduction to Biological Physics (Fall 2011)

Provided overview of general library resources, as well as selected resources and databases specific to the class. Sessions included an overview of a relevant database (SciFinder, Web of Science, Engineering Village), techniques for more efficient searching, and an introduction to a bibliographic citation manager (EndNote or RefWorks). Prepared LibGuides for classes as appropriate.

Selected General Library Workshops, University of Florida

EndNote (Fall/Spring, 2010-2012)

RefWorks (Fall/Spring, 2010-2012)

Ethical Conduct of STEM Research (co-instructor) (Fall 2011, Spring 2012)

Provided instruction in the selected resources. Prepared LibGuides in support of instruction. Workshops open to the campus community.

**Professional Memberships and Contributions**

American Chemical Society, Division of Chemical Information (June 2010 – present)

Education Subcommittee member (March 2012 – March 2015)

Education Subcommittee consultant (March 2015 – present)

Assistant Division Membership Chair (February 2014 – December 2014)

Division Membership Chair (January 2015 – present)

Society of Women Engineers (May 2012 – present)

Special Libraries Association (March 2013 – present)

## **Professional Development**

### In-Person Training

SLA Continuing Education: Chemistry for the Non-Chemist Librarian, 06/08/2013

SLA Continuing Education: Chemical Information Sources, 06/08/2013

NLM Training: PubMed, 12/01/2010 (7.5 M.L.A CE Credits)

NLM Training: TOXNET and Beyond, 12/02/2010 (6 M.L.A. CE Credits)

### Online Classes

Drugs and the Brain (Coursera, online) – Received Statement of Accomplishment WITH DISTINCTION (7 weeks, Winter 2013-2014)

7.00x: Introduction to Biology The Secret of Life (EdX, online) – “Successfully completed and received a passing grade” (81%), received Honor Code certificate (14 weeks, Fall 2013)

Patent Searching (Library Juice Academy, online) – Received Certificate of Completion (4 weeks, Summer 2013)

8.MReVx: Mechanics ReView (EdX, online) – “Successfully completed”, received Honor Code certificate (12 weeks, Summer 2013)

## **Service Activities, California Institute of Technology**

Event Co-Coordinator, 2015 Southern California State Science Olympiad Tournament, April 2015

Professional Mentor, US FIRST, Spring 2014 – present

Caltech Teaching Conference Planning Committee Volunteer, Fall 2014

## **Service Activities, University of Florida**

Faculty Advisor, Society of Women Engineers, Fall 2010 – January 2013

Center for Macromolecular Science & Engineering Poster Session Invited Faculty Judge, 04/01/2010

University Minority Mentor Program, Fall 2010 – Fall 2011

Library Mini-Grants Committee, Summer 2010 – January 2013

Chair (Summer 2011 – January 2013)