Resources for Case Writing: Links to Readings

**Books**

***Science Stories You Can Count On: 51 Case Studies with Quantitative Reasoning in Biology*,** edited by Clyde Freeman Herreid, Nancy A. Schiller, and Ky F. Herreid, NSTA Press, 2014.

* Includes case studies as well as tips and techniques for promoting quantitative reasoning in biology.
* The book is available for purchase through [NSTA](http://www.nsta.org/store/product_detail.aspx?id=10.2505/9781938946059).

***Science Stories: Using Case Studies to Teach Critical Thinking*,** edited by Clyde Freeman Herreid, Nancy A. Schiller, and Ky F. Herreid, NSTA Press, 2012.

* A compilation of case studies with questions and teaching notes that can be used to help develop STEM students' critical thinking skills.
* The book is available for purchase through [NSTA](http://www.nsta.org/store/product_detail.aspx?id=10.2505/9781936137251) or from [Amazon](http://www.amazon.com/Science-Stories-Studies-Critical-Thinking/dp/1936137259).

***Start with a Story: The Case Study Method of Teaching College Science*,** edited by Clyde Freeman Herreid, . Originally published in 2006 by the National Science Teachers Association (Nsta); reprinted by the National Center for Case Study Teaching in Science (NCCSTS) in 2013.

* *Start with a Story* is a collection of 40+ essays that examine every aspect of the case study method. Included are numerous examples of case studies as well as strategies, tips, examples, ideas, and resources for applying the case method to the science classroom.
* The NCCSTS has acquired the copyright for this work in print and is now reprinting this edition.  You can order a print copy using our [online form](http://www.sciencecases.org/products/products.asp).
* Please note: The order form above is for the print book. We do not hold the copyright for the electronic version; to purchase the e-book version of the book, go to the [NSTA Press website](http://www.nsta.org/store/product_detail.aspx?id=10.2505/9781935155386).
* 
*  [What is a Case? Bringing to Science Education the Established Teaching Tool of Law and Medicine](http://sciencecases.lib.buffalo.edu/cs/pdfs/What%20is%20a%20Case-XXVII-2.pdf)
*  [My Favorite Case and What Makes It So](http://sciencecases.lib.buffalo.edu/cs/pdfs/FavoriteCases.pdf)
*  [What Makes a Good Case? Some Basic Rules of Good Storytelling Help Teachers Generate Student Excitement in the Classroom](http://sciencecases.lib.buffalo.edu/cs/pdfs/What%20Makes%20a%20Good%20Case-XXVII-3.pdf)
*  [Sorting Potatoes for Miss Bonner: Bringing Order to Case Study Methodology Through a Classification Scheme](http://sciencecases.lib.buffalo.edu/cs/pdfs/Sorting%20Potatoes-XXVII-4.pdf)

**Writing Cases**

* [Cooking With Betty Crocker: A Recipe for Case Writing](http://sciencecases.lib.buffalo.edu/cs/pdfs/Cooking%20With%20Betty%20Crocker-XXIX-3.pdf)
* [The Way of Flesch: The Art of Writing Readable Cases](http://sciencecases.lib.buffalo.edu/cs/pdfs/Way%20of%20Flesch-XXXI-5.pdf)
* [Twixt Fact and Fiction: A Case Writer's Dilemma](http://sciencecases.lib.buffalo.edu/cs/pdfs/Twixt%20Fact%20and%20Fiction%20XXXI-7.pdf)
* [Let's Get Personal: Putting Personality into your Cases](http://sciencecases.lib.buffalo.edu/cs/pdfs/Let’s%20Get%20Personal%20Putting%20Personality-Vol46No3.pdf)
* [Puttin’ on the Ritz: How to Put Science into Cases](http://sciencecases.lib.buffalo.edu/cs/pdfs/Puttin’%20On%20the%20Ritz-Vol47No1.pdf)
* [Putting Words in Their Mouth: Writing Dialogue for Case Studies](http://sciencecases.lib.buffalo.edu/cs/pdfs/Putting%20Words%20in%20Their%20Mouth%20Writing-Vol47No4.pdf)
* [And All That Jazz: An Essay Extolling the Virtues of Writing Case Teaching Notes](http://sciencecases.lib.buffalo.edu/cs/pdfs/And%20All%20That%20Jazz-XXIX-4.pdf)

**Teaching with Cases**

[Don't! What Not to Do When Teaching Cases](http://sciencecases.lib.buffalo.edu/cs/pdfs/Dont-XXX-5.pdf)

[Return to Mars: How Not to Teach a Case Study](http://sciencecases.lib.buffalo.edu/cs/pdfs/Return%20to%20Mars.pdf)

 [Assembling a Case Study Tool Kit: 10 Tools for Teaching With Cases](http://sciencecases.lib.buffalo.edu/cs/pdfs/Assembling%20a%20Case%20Study%20Tool%20Kit-Vol47No2.pdf)

 [The Interrupted Case Method](http://sciencecases.lib.buffalo.edu/cs/pdfs/Interrupted%20Case%20Method-XXXV-2.pdf)

 [Case Studies and the Flipped Classroom](http://sciencecases.lib.buffalo.edu/cs/pdfs/Cases_Flipped_Classroom.pdf)

 [A Chat with the Survey Monkey: Case Studies and the Flipped Classroom](http://sciencecases.lib.buffalo.edu/cs/pdfs/Survey%20on%20Case%20Studies%20and%20Flipped%20Classroom.pdf)

 [Intimate Debate Technique](http://sciencecases.lib.buffalo.edu/cs/pdfs/Intimate%20Debate%20Technique-Pot-XXXVI-4.pdf)

 ["Clicker" Cases: Introducing Case Study Teaching into Large Classrooms](http://sciencecases.lib.buffalo.edu/cs/pdfs/Clicker%20Cases-XXXVI-2.pdf)

 [Structured Controversy: A Case Study Strategy](http://sciencecases.lib.buffalo.edu/cs/pdfs/Structured%20Controversy-XXVI-2.pdf)

 [Trigger Cases Versus Capstone Cases](http://sciencecases.lib.buffalo.edu/cs/pdfs/Trigger%20Cases%20Vs%20Capstone%20Cases-XXXVIII-2.pdf)

 [The Boy Scouts Said Its Best: Some Advice on Case Study Teaching and Student Preparation](http://sciencecases.lib.buffalo.edu/cs/pdfs/Boy%20Scouts%20Said%20It%20Best-XXXVII-1.pdf)

 [Naming Names](http://sciencecases.lib.buffalo.edu/cs/pdfs/Naming%20Names-XXXII-3.pdf)

 [Science, Pseudoscience, and Nonsense](http://sciencecases.lib.buffalo.edu/cs/pdfs/Cases_and_Pseudoscience)

Others available at <http://sciencecases.lib.buffalo.edu/cs/teaching/publications/>

Problem based learning

<http://www1.udel.edu/inst/>

<http://www1.udel.edu/inst/resources/index.html>

# Books on PBL from the University of Delaware

The
            Power of Problem Based Learning

### [The Power of Problem-Based Learning](https://sty.presswarehouse.com/Books/BookDetail.aspx?productID=44647)

A Practical "How To" For Teaching Undergraduate Courses in Any Discipline  
Edited by Barbara Duch, Susan Gron, and Deborah Allen

[Stylus Publishing, LLC](http://www.styluspub.com/Books/Features.aspx) (2001), 256 pages  
ISBN 1-57922-037-1, paper, $24.95  
ISBN 1-57922-036-3, cloth, $59.95

Exploring Foodservice Systems Management through
            Problems

### [Exploring Foodservice Systems Management Through Problems, 3rd ed.](http://www.pearsonhighered.com/educator/product/Exploring-Food-Service-Systems-Management-Through-Problems-3E/9780132325424.page)

Elizabeth Lieux and Patricia Luoto

[Prentice Hall](http://www.pearsonhighered.com/) (2008), 300 pages  
ISBN 0-13-232542-X, paper, $29

Exploring Quantity Food Production and Service through
            Problems

### Thinking Toward Solutions: Problem-Based Learning Activities for General Biology

Deborah Allen and Barbara Duch

### Harcourt College Publishing (1998), 136 pages ISB UD News Articles

[UD Contributions](http://www.udel.edu/pbl/PBL2008/) to PBL2008: Learning without Limits, an international conference in Colima, México in January 2008, hosted by [Universidad de Colima](http://www.ucol.mx/).

[UD Contributions](http://www.udel.edu/pbl/PBL2006/) to PBL2006: Connecting Learning to the Real World, an international conference in Lima, Perú in July 2006, hosted by [Pontificia Universidad Católica del Perú](http://www.pucp.edu.pe/).

[UD Contributions](http://www.udel.edu/pbl/PBL2004/) to PBL2004: Pleasure By Learning, an international conference in Cancun, México in June 2004, hosted by Tec de Monterrey.

[Dan Tries Problem-Based Learning: A Case Study](http://www1.udel.edu/inst/resources/problems/dan-tries-pbl-case.html), Hal White

[A problem-based learning course in physiology for undergraduate and graduate basic science students](http://advan.physiology.org/cgi/content/abstract/275/6/S16), Sheella Mierson

[PBL Articles in Biochemical Education and Biochemistry and Molecular Biology Education](http://www.udel.edu/chem/white/teaching/BiochEd/articles.html), Hal White

[Using Technology to Promote Success in PBL Courses](http://technologysource.org/article/using_technology_to_promote_success_in_pbl_courses/), G. H. Watson, [The Technology Source](http://technologysource.org/) May/June 2002.

[University of Delaware's Faculty-IT Partnership: Educational Transformation through Teamwork](http://technologysource.org/article/university_of_delawares_facultyit_partnership/), Janet de Vry and G. H. Watson, [The Technology Source](http://technologysource.org/), May/June 2003.

[Qualitative Assessment Activities for Pew Grant on Problem-Based Learning (PBL)](http://www.udel.edu/pbl/Final-Report-Pew-PBL.pdf), Gabriele Bauer

[Scaling Up Research-Based Education for Undergraduates: Problem-Based Learning](http://www.bioquest.org/pbl_cur_org.pdf), D. E. Allen, B. J. Duch, S. E. Groh, G. H. Watson, and H. B. White,

### In *Evidence-Based Teaching*

Allen, D. E., R. S. Donham, and S. A. Bernhardt. "The Evidence for Problem-Based Learning." In *Evidence-Based Teaching*. Edited by William Buskist and James Groccia. Series: New Directions In Teaching and Learning. San Francisco: Jossey-Bass.  Winter, 2011: 21-30.

### Problem-Based Learning: An Introduction, from [The National Teaching & Learning Forum](http://www.ntlf.com/):

[Table of Contents](http://onlinelibrary.wiley.com/doi/10.1002/ntlf.10043/pdf)  
UD Interview vignettes:  
Kurt Burch, Chandra Reedy, and Barb Duch

### Student Active Science, published by Harcourt College Publishing

Institutional Change in Science Education: A Case Study, Susan E. Groh, Barbara A. Williams, Deborah E. Allen, Barbara J. Duch, Sheella Mierson, and Harold B. White, III  
Bringing Problem-Based Learning to the Introductory Biology Classroom, Deborah E. Allen  
Cooperative Problem-Based Learning in an Undergraduate Physics Classroom, Barbara A. Williams and Barbara J. Duch

### Spring 1996 issue of About Teaching\*

[Problem-Based Learning](http://www.udel.edu/pbl/cte/spr96-edit.html): A Note From the Editor  
[Teaching with Tutors](http://www.udel.edu/pbl/cte/spr96-bisc.html), Deborah Allen  
[But I Teach a Large Class...](http://www.udel.edu/pbl/cte/spr96-bisc2.html), Linda Dion  
[Introducing Art History through PBL](http://www.udel.edu/pbl/cte/spr96-arth.html), Mark Miller  
[PBL in a Large Introductory Geology Class](http://www.udel.edu/pbl/cte/spr96-geol.html), Allan Thompson   
[A Comparative Study of Learning in Lecture vs. Problem-Based Format](http://www.udel.edu/pbl/cte/spr96-nutr.html), Elizabeth Lieux  
[Problems: A Key Factor in PBL](http://www.udel.edu/pbl/cte/spr96-phys.html), Barbara Duch  
[From the Students' Point of View](http://www.udel.edu/pbl/cte/spr96-student.html) (student comments)  
[From the Tutors' Point of View](http://www.udel.edu/pbl/cte/spr96-tutor.html) (tutor comments)

### January 1995 issue of About Teaching\*

[The Power of PBL](http://www.udel.edu/pbl/cte/jan95-edit.html): From the editor  
[What is Problem-Based Learning?](http://www.udel.edu/pbl/cte/jan95-what.html)  
["Creating Problems" for PBL](http://www.udel.edu/pbl/cte/jan95-chem.html), Hal White  
[A Student-Centered Model of PBL](http://www.udel.edu/pbl/cte/jan95-bisc.html), Sheella Mierson  
[PBL in Physics](http://www.udel.edu/pbl/cte/jan95-phys.html) -- The Power of Students Teaching Students, Barbara Duch  
[PBL and the Lively Classroom](http://www.udel.edu/pbl/cte/jan95-posc.html), Kurt Burch

N 0-03-025033-1, paperback, $28

<https://myuni.adelaide.edu.au/courses/24276/pages/problem-based-learning-annotated-bibliography?module_item_id=1036929>