

Curriculum vitae

Karen K. Bernd

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I. Academic Appointments

2004-present	Associate Professor	Biology Department, Davidson College
1998-2004	Assistant Professor	Biology Department, Davidson College

II. Education:

1996-1998	Post doc	Duke University; Developmental Molecular and Cell Biology (PI: Bruce Kohorn)
1990-1996	Ph.D.	Princeton University; Molecular Biology (Advisor: Elizabeth Sztul)
1986-1990	B.A.	Franklin and Marshall College; Maj. Biology; Min. Philosophy. <i>Cum laude</i> and High Honors in Biology

III. Teaching Experience (since Davidson appointment in 1998)

Bio111: Molecules, Genes and Cells w/ lab (2 sections yearly)
Bio308: Cell Biology w/ lab (2 sections yearly)
Bio361/2 Seminars (1 section yearly)
“Vesicular traffic—Dogma/myth”; “From Venoms and Toxins to Drugs”; “Genetically Modified Organisms”; “Forensic Serology”
Bio371/Bio372 Independent Research Mentor: 34 students
Bio373 Honors Thesis Research Mentor: 1 student (3sem.)
Honors Thesis 2nd reader: 13 students
Summer research students: 31 students
Center for Interdisciplinary Studies:
CIS341: Introduction to Forensic Sciences: team-taught:
CIS 241: Redesigned Introduction to Forensic Sciences, team-taught
(All CIS offering taught as teaching overloads)
Biophysics major advisor and primary research mentor: 3 students
Bioethics major advisor and primary research mentor: 1 student
Neuroscience major 2nd reader: 4 students
Member of CIS advisory board 2000-2006
July Experience Instructor “Genetic maps and Mood Swings”: 3 wk summer course for rising high school seniors: taught summer of ‘03, ‘05-‘09
For recent syllabi and course information please access my self-designed website:
www.bio.davidson.edu/Bernd

IV. Awards and Funding (since 1997)

2007-2010 Summer Research Internship Program in Biochemistry Merck Foundation/AAAS: \$60,000 Co-PI Karen Bernd and Cindy Hauser

2010 Course Development Grant; Davidson College, Davidson, NC: \$2000 Developing Bio104: Forensic Science w/ lab

2010 Faculty Study and Research Grants: Davidson College, Davidson, NC: \$2,600 Environmental Cell Biology Study Supplies

2008 Faculty Study and Research Grants: Supplies Davidson College, Davidson, NC: \$2,600 Characterizing the effects of ozone and internal stressors on lung cell viability

2007 HHMI Summer Research Program. Student Fellow support Co-Advisor Karen Bernd and John Yukich \$5700. "Characterization of Functional Flagella with Optical Tweezers"

2007 Faculty Study and Research Grants; Student Fellowship Davidson College, Davidson, NC: \$3,200 "Establishing models to study the effects of ozone on surfactant and lung epithelial cells"

2006 Faculty Study and Research Grants; Student Fellowship Davidson College, Davidson, NC: \$3,200 "Characterization of swimming force generated during flagella generation using the laser trap"

2003-2006 Summer Research Internship Program in Biochemistry Merck Foundation-AAAS: \$60,000 Co-PI Karen Bernd and Erlend Stevens

2002-2006 NSF-REU Site Grant : \$248,101 "REU Site: Developing Student Scientists: Collaborative Research in the Life Sciences at Davidson College." Co-PI: Michael E. Dorcas, Mark T. Stanback, Karen K. Bernd,

2005 Faculty Study and Research: Teaching Improvement Grant Davidson College, Davidson, NC: \$2,600 "Forensic Serology Seminar: Communicating Scientific Information to Audiences with Different Scientific Backgrounds"

2003 Faculty Study and Research Grants Davidson College, Davidson, NC: \$3,000 Student stipends (2) "Optimizing Comparative RT-PCR for Cell Biology Department" and "Building Optical Tweezers,"

2002 Mellon Technology Fellow Associated Colleges of the South: \$2,500 "Providing Connections: Resources for Cell Biology" Updated syllabus and wrote course guide <http://www.bio.davidson.edu/people/kabernd/cellbiohm.html>

2002 Faculty Study and Research Grant Davidson College, Davidson, NC: \$2,750 "Microscale screening: Testing the general applicability of a novel technique"

2001 Faculty Study and Research Grant Davidson College, Davidson, NC: \$3,000
 “Characterizing the resistance of *Chlamydomonas reinhardtii* tip mutants to the herbicide Valor”

2001 Information Fluency Grant Associated Colleges of the South: \$3,655
 “Maximizing Audience and Student-Perceived Relevance: Teaching Information Fluency in Introductory Biology Courses”

2000-2001 Educational Enhancement Grant North Carolina Biotechnology Center, Durham, NC: \$23,430 “Development of DNA sequencing and RNA detection methods for the undergraduate laboratory” Co-Principal Investigator: Dr. D. Wessner: Davidson College

2000 Mellon Technology Fellow Associated Colleges of the South: \$2,500
 “Integrating WWWeb-based Technology into a Cell Biology Course”

2000 Faculty Study and Research Grant Davidson College, Davidson, NC: \$2,500
 “Characterization of herbicide resistance in mutant algae strains”

1999 Faculty Study and Research Grant Davidson College, Davidson, NC: \$2,500
 “Investigating the link between translocation and herbicide resistance”

1997-1999 NIH National Research Service Award: \$65,020 “Genetic analysis of *Chlamydomonas* protein translocation” *Declined last year to accept position at Davidson College*

V. Professional Activities

A. Professional Society Memberships

1990-present	Phi Beta Kappa Chapter President 2010-2011 Chapter Initiation Banquet Committee 2002-2004
1991- present	American Society for Cell Biology NC Congressional Liaison Coalition 1999-2008
1999- present	National Association of Biology teachers
1991- 2002	Federation of American Societies for Experimental Biology
1999- 2002	American Association for the Advancement of Science

B. Reviewer (selected activities since 1997)

GRE Committee of Examiners: Cellular, Molecular and Biochemistry Subject Test. Responsible for writing and reviewing and selecting the questions for the GRE test (ETS, Princeton NJ) 2006-2012

Multimedia resource Development Cell Biology Interactive, packaged with Alberts et al. Molecular Biology of the Cell^{4th} ed., Garland Publishing
Involved in storyboard design, reviewing presentation and content at alpha and beta testing levels

Educational literature Reviewer Human Genome Traveling Exhibit: Teacher Guide
 Topics in Education Co, Charlotte, NC;
Involved in development and content review “Genome: The Secret of How Life

Works” on display at Smithsonian Institution Fall 2003.

Grant Proposal Reviewer NSF Graduate Research Fellowship Proposal reviewer
Genetics and Cell Biology Panel 2003-2006, 2008

Ad hoc reviewer of NSF proposals (2007, 2008, 2009, 2010)

Peer Review- Journals Approximately one/year

Textbooks proposal review Approximately one /year
Cell biology, Biochemistry, Introductory Biology, Non-majors

Textbook revision Reviewer Molecular Cell Biology, 5th edition, Lodish *et al.*
Reviewed and provided comments on five chapters and TOC
to help direct the development of the 6th edition.

Biology. Curtis and James 6th edition

C. Invited Speaker

2008 Scholarship; Teaching Research and Researching Teaching: Duke University: 2-hour seminar to graduate level course Bio390: Seminar in Teaching College Biology. Focus 3/08

2006 ‘Making Labs Engaging’ Duke University: Invited speaker for 2-hour seminar to graduate level course Bio390: Seminar in Teaching College Biology. 3/06.

2005 “The Broad Spectrum of Academia: How academic cultures vary across institutions”
Panelist with Albert Young, Assistant Professor, Physics, North Carolina State University;
and Jeff Rathmell, Assistant Professor, Pharmacology and Cancer Biology, Duke University
Medical Center. Duke University Postdoctoral Association organized event. Duke
University, 1/05

2003 ‘Protein Translocation and Herbicide Resistance: How the Summer Sun Causes the
Birth of an Assay’ Franklin and Marshall College: Lancaster, PA Biology Evening Seminar
Series/ Porter Science Society (3/03)

2003 Metabolism and Information Pathways. Franklin and Marshall College: Lancaster,
PA Guest lecturer Bio334: Biochemistry and Molecular Biology (3/03)

2002 “Information Fluency: Promoting critical reading and webpage” authoring in biology
courses NSF: Preparing Future Faculty: Duke University, Durham, NC (3/02)

2001 “Integrating Webauthoring into Seminar Courses” NSF: Preparing Future Faculty,
Guilford College, Greensboro, NC (3/01)

2000 “Linking the WWWeb and Seminar Courses: Lessons learned from Vesicular Traffic:
Dogma or Myth” American Society for Cell Biology Annual Meeting: San Francisco, CA
(12/00)

VI. Selected Publications (since 2000)

A. Research Papers *denotes undergraduates as co-authors

Clodfelter C.*, Yukich, J, and K.K. Bernd Force production during flagella regeneration in *Chlamydomonas reinhardtii*. (working title, manuscript to be submitted by Jan 31, 2010 to *Biochem and Biophys Res. Comm.*)

Guilford, W.H., Aust, L.E.*, and **K.K. Bernd**. 2006. Whole-cell flagellum-based motility studied using back focal plane interferometry in a laser trap transducer. Conference Record of the Fortieth Asilomar Conference on Signals, Systems and Computers: 178-82.

McCord, R.P.*, Yukich, J. N., and **Bernd, K.K.**. 2005. Analysis of Force Generation during Flagellar Assembly Through Optical Trapping of Free-swimming *Chlamydomonas reinhardtii*. *Cell Motility and the Cytoskeleton* 61: 137-144

Bernd, K. K., and Cook, N.*. 2002. Microscale assay monitors algal growth characteristics. *Biotechniques* 32: 1256-1259. <http://www.biotechniques.com/>

B. Books and Book Chapters

Bernd K.K. *Biology In Condense Knowledge* Eds W. Pearson, L. Hunt and M. Hattikudur. Harper Collins.

Bernd, K.K. 2002. Teaching Guide: Integrating Molecular Biology of the Cell 4th edition and Cell Biology Interactive. Garland Science
<http://www.garlandscience.com/MBoC4/supplements.html>

Bernd, K.K., Perret, M.C., and Kohorn, B.D. 1998. Chloroplast protein translocation in Chlamydomonas. In *Molecular Biology of Chloroplasts and Mitochondria in Chlamydomonas*. Eds. J. -D. Rochaix, M. Goldschmidt-Clermont, and S. Merchant

C. Invited Book Reviews and articles *denotes undergraduates as co-authors

Interviewed by Kerri McWinney for MoBio newsletter, the quarterly electronic newsletter for their company, featuring collaborative field/lab work with M. Dorcas.

<http://www.mobio.com/blog/2009/10/18/csi-meets-crocodile-hunter-undergraduate-scientists-hunt-for-the-deadly-chytrid-fungus/>

Bernd K.K. 2005. TP Msg. 623 “Merging Teaching and Research” a response to ‘Sufficient Time for Research’ Initially posted 2/14/05, ‘Tomorrow's Professor’ faculty development resource sponsored by the Stanford University Center for Teaching and Learning. Posting written at the request of the moderator Rick Reis. Archived at <http://ctl.stanford.edu/Tomprof/index.shtml>

Bernd, K.K. and V. Statler*. 2004. Customer Focus: Undergraduates Study Gene Expression in *S.cerevisiae* Using a Student-Optimized Protocol. *Epicentre Forum* 11; 4

Bernd, K.K. 2003. Waiting for 4.1: Review of Roche Genetics Education Program CD-rom version4.0 *Cell Biology Education* 2: 152-155.

<http://www.cellbioed.org/articles/vol2no3/article.cfm?articleID=66>

Bernd K.K. 2002. Book Review: Mood Genes: Hunting for the Origins of Mania and Depression. J. of Undergraduate Neuroscience. 1(1); R1-R2.

<http://www.funjournal.org/downloads/R1bernd.pdf>

D. Abstracts/Posters/Presentations at Meetings *denotes undergraduates as co-authors

J. N. Yukich, C. Clodfelter,* **K.K. Bernd** 2009. Flagellar force production during regeneration in *Chlamydomonas reinhardtii*. Platform presentation Southeastern Section of the American Physical Society, Atlanta, GA, November 12, 2009.

M. Chalfant*, **K. Bernd**. 2009. 17- β Estradiol affects lung cell response to oxidative stress. State of NC Undergraduate Research and Creativity Symposium (SNCURCS). UNC-Wilmington, Nov 2009

D. Cook*, **K. Bernd**. 2009. Selenium treatment post ozone exposure improves lung cell recovery 12th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences sponsored by National Institutes of Health (NIGMS), Univ of Maryland, Baltimore County, MD, Oct 2009

C. Clodfelter*, J. Yukich and **K. Bernd**. 2009. Abnormal movement and the trend of flagellar force production during regeneration in *Chlamydomonas reinhardtii* Biophysical Society Annual Meeting. Boston, MA.

M. Shaban*, C. Clodfelter*, J. Yukich, **K.K. Bernd**. 2008. Comparing Laser Trap-based Approaches to Investigate and Model Flagella Force Generation in *Chlamydomonas reinhardtii*. Biophysical Society Annual Meeting. Long Beach CA Poster presented by MS and CC Feb 2008

M. Shaban* C. Clodfelter*, **K.K. Bernd**. J. Yukich. 2008. Developing optical trapping techniques to measure swimming force generation in *Chlamydomonas* cells NC Academy of Science Annual Meeting. UNC Greensboro. Platform talk by M.S. Mar 2008

L. Woeste*, M Esposito*, and **K.K. Bernd**. 2008 A thyroid disorder model based on metabolic differences in cell culture to demonstrate the varying effect of thyroid hormone on glucose consumption. NC Academy of Science Annual Meeting. UNC Greensboro. Mar 2008

*Clodfelter, C., *Shaban, M., Yukich, J., **Bernd, K.K** 2007. Analysis of Force Generation Patterns During *C. reinhardtii* Flagella Regeneration. America Society for Cell Biology Annual Meeting, Washington, D.C. Dec 2007

Bernd, K.K., DeForest Hauser, C., *Nam, A., *Raver, C., 2007 *Weaver, A. An epithelial Type II Cell System to Investigate Links between Environmental Factors and Lung Injury. America Society for Cell Biology Annual Meeting, Washington, D.C. Dec 2007

M. Shaban*, C. Clodfelter*, J. Yukich, **K.K. Bernd**. 2007 Examining Swimming Force Generation as *Chlamydomonas reinhardtii* Flagella Regenerate. Regional meeting American Society for Microbiology, Greensboro, NC. Poster presented by M.S. Oct 2007

Yukich, J. *Shaban, M., * Clodfelter, C., **Bernd. KK** 2007. Measurement of swimming force generation in *Chlamydomonas reinhardtii* using optical tweezers. Optics in the Southeast Annual Meeting. Clemson University Platform Talk Oct 2007

Guilford W., *Aust, L, **Bernd, K.K.**, 2006 Whole-cell flagellum-based motility studied using back focal plane interferometry in a laser trap transducer. 40th Asilomar Conference on Signals, Systems and Computers. Pacific Grove, California. Platform talk. Nov 2006

Shaban, M.*, **Bernd, K.** and Yukich, J., 2006 Improving Optical Trap Calibration Techniques for Chlamydomonas Cells. NCS-AAAPT meeting Elon College. Sept 2006. Mona Shaban presented platform talk.

Yukich, J., **Bernd, K.K.**, and R.P. McCord*. 2005. Biophysical analysis of swimming force by *Chlamydomonas* flagella. Annual Meeting of the SE section of the American Physical Society. Platform talk.

Newton, K.*, Pickens, A.*, and **K.K. Bernd**. 2005. Novel organic compounds DRR 3 and DRR 5 affect growth rate differentially in model bacteria *Escherichia coli*, *Salmonella typhimurium*, and *Staphylococcus simulans*. North Carolina Academy of Science Annual Meeting. Meredith College, Raleigh, NC.

McCord, R.P.*, Yukich, J. N., and **K.K. Bernd**. 2004 Optical Trap Analysis Reveals *Chlamydomonas reinhardtii* Exhibit Complex Patterns of Swimming Force Increase During Flagella Elongation. American Society for Cell Biology annual meeting, Washington, DC.

Bernd, K. K. 2004. Undergraduates Ranking Grant Proposals and Writing a *Curriculum Vitae* Why and How? American Society for Cell Biology annual meeting, Washington, DC.

McCord, R.P.*, Yukich, J. N., and **K.K. Bernd**. 2004. Using Optical Tweezers to Measure the Force Exerted by Original and Regenerated Flagella of *Chlamydomonas reinhardtii*. NC Academy of Science Annual meeting, Catawba College, March 2004. Awarded First Place in Cell and Developmental Biology Oral Presentation Section.

McCord, R.P.*, **Bernd, K.K.**, and J.N. Yukich 2004 Optical Tweezers and Biological Forces: Using a Laser Trap to Measure the Swimming Force Exerted by the Flagella of *Chlamydomonas reinhardtii*. Biophysical Society Annual Meeting. Baltimore, MD presented by McCord. February, 2004

Wilson, A.R.*, Neill, J.,* Stevens, E. and **K.K. Bernd**. 2004. Analysis of Purine Derivatives for Antimicrobial Activity. NC Academy of Science Annual meeting, Catawba College, March 2004. Awarded First Place in Cell and Developmental Biology Poster section.

McCord, R.P.*, Yukich, J.N., and **K.K. Bernd**. 2003. The Design and Construction of an Optical Tweezers Laser Apparatus to Measure Piconewton Scale Biological Forces. Annual

Meeting of the SE section of the American Physical Society. Wilmington, NC. Awarded Second Place in Undergraduate Poster Division.

Stevens, E. Neill, J., * Wilson, A, * and **Bernd, K.K.** 2003. Synthesis and Biological Activity of 1,2,3-triazoles. American Chemical Society Annual meeting Atlanta, GA,

Newton, K. *, Chase, M. *, Toran, P. *, and **Bernd, K.K.** 2003. Characterizing golgin targeting requirements. Poster at North Carolina Academy of Science Meeting, at UNC-Wilmington, Wilmington, NC. Awarded Third Place John Derieux Award for Outstanding Undergraduate Research; Student Poster division. Presented by all three student authors.

Statler, V. * and **K. K. Bernd.** 2003. Optimizing Comparative RT-PCR for undergraduate Cell Biology laboratories. Presentation at North Carolina Academy of Science Meeting, at UNC-Wilmington, Wilmington, NC. Awarded Second Place John Derieux Award for Outstanding Undergraduate Research; Science Education division. Platform presentation by Victoria Statler ('03)

Bernd, K. K. and Cook, N. * 2001. Protein translocation mutants demonstrate altered herbicide resistance in novel microscale assay. American Society for Cell Biology annual meeting, Washington, DC.

Larned, C. *, Nugent, E*, McKillop, J. C., **Bernd, K. K.** and Wessner, D. 2001. Use of Rapid, Chemiluminescent DNA Sequencing and Phenol-free RNA Isolation Protocols in the Undergraduate Curriculum. ASM Annual Meeting abstract/poster, Orlando, FL Presented by C. Larned.

McKillop, J. C. * and **K.K. Bernd.** 2001. Optimizing *S. cerevisiae* differential gene expression protocols for use in undergraduate laboratories. NC Academy of Science meeting. Platform presentation by J.C. McKillop ('01).

Bernd, K K, Larned, C*, McKillop, J, *Nugent, E*, Riedley, S*, and Wessner, D. 2000. DNA Sequencing and Differential Expression Studies: Non-radioactive, Non-toxic and Accessible. American Society for Cell Biology Annual Meeting. MCB Supplement

E. Davidson College Service

1. College committees

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|--------------|--|
| 2009 | Search committee: HHMI Postdoctoral fellow |
| 2006-pres | Faculty Admissions Committee. Chair 2008-09. Term usually 3 years.
Asked to stay on as chair for additional term |
| 2004-present | First year student course registration advisor (one of 4 contacts for summer webtree help for all incoming students) |
| 2006-2007 | Search committee Assistant Director Medical Humanities Program
(2 rounds) |

- 2004-2007 Student Conduct Council
Elected by the Natural Sciences Division
- 2001 – 2006 Center for Interdisciplinary Studies Advisory Board
Critique all Center Major applications (approx. 15-20 per year)
Participate in thesis proposal defenses (approx. 3 per year)
Participate in final oral thesis defenses (approx. 4 per year)
- 2005-2006 SAC committee reviewing the Humanities program
- 2003 – 2006 Sexual Misconduct Board Appointed to board by President Vagt Spring 2003.
- 2005 Search committee for VP/Dean of Admission and Financial Aid
- 2005 Biology Department Search Committee for one semester position teaching Introductory Biology
- 2000 – 2004 Graduate Grants and Fellowships committee:
Interview and grant Davidson's Smith Fellowship
Determine college's candidates for Watson fellowship
Mock interviews for Rhodes and Mellon Fellowships
Aid students in preparing NSF graduate fellowship applications
- 2009, 2003, 1999 Premed Advisory Committee Subcommittee member
Interviewed and ranked four students applying to medical school.
- 2002, Premedical Advisory Committee
Held interviews and participated in student review process during spring semester as substitute for committee member who was on sabbatical (5 students interviewed, 42 students reviewed and ranked by panel)
- Fall 1999 - Fall 2001 Review Board: Heard cases appealing sanctions imposed by Honor Council or Judiciary Board (approx 3 cases each semester)
Chair of Review Board Fall 2000 – Fall 2001
- 1999-2000 Writing Center Advisory Committee

2. College Organizations

- 2001-2007 **Reproductive Rights Alliance** of Davidson faculty advisor (since its inception). Student group focusing on educational resources for reproductive issues. Outreach includes education regarding reproductive health and safety as well as resources concerning birth control, abortion and adoption services.
- 1998-2004 NOAH Junior faculty group meeting monthly to discuss pedagogy and insights to being junior faculty and being at Davidson.

Co-coordinator Fall 2000-2003

3. College Presentations and Service

2008-present BioCenter Newsletter: Writer, Editor-in Chief and head bottle washer:
Prepare and distribute weekly electronic newsletter containing departmental events, seminars, job and fellowship opportunities, study tips and jokes to all majors, students in biology courses and department staff and faculty (~1.5hr/week)

2006-present Host Forensic Science Workshop for local middle school students. As part of Forensic Serology seminar design and host 2.5hour workshop for 30 students.

1998- present Departmental 'Public Relations' contact:

Provide contact point for inquiries about the biology major, Davidson's facilities, and other more random scientific questions (i.e. ' Please tell me everything you know about biology' ;' a friend took a non-fatal overdose of aspirin as a child, could that have caused his childhood habit of banging his head against the floor?; "what is the life expectancy of red wiggler (worms)?").

Provide personal tours, answer questions in person, by email and phone.

1998-present Work with Office of Admission and Financial Aid

Faculty Admission Committee

Member and Chair, see committee work above

Tours:

Introduce prospective Davidson students to the opportunities and facilities in the Biology department (Approx 2 tours per week during academic year, 1-2 tours per week during summer)

Provide biology training for summer campus tour guides

Discover Davidson and Decision Davidson: weekend recruiting events

Biology Department Representative for Science Tours (2hr 9/09)

Invited speaker for science section of the following events (ea 1hr talk + Q&A)

"Stress Responses: Why Bears Always Chase Biologists" 10/07

Davidson Junior Day: Part of four-person panel that provided information about our division of the college and opportunities for students. Answered questions posed by the prospective students and their parents. 2/19/06

"Communication is the Key: Cell Biology from Bipolar Disorder to Yeast Mating" 10/03.

"Connecting with Life: Biology at Davidson." (10/02)

"Relevance! An Introduction to Biology at Davidson." (9/02)

"A Day at Davidson for Juniors" (2/02). co-led discussion groups with focused on unique teaching and learning opportunities at Davidson

"Making Connections: An Introduction to Biology at Davidson" (10/01)

"Getting Your Signals Right: An Introduction to Biology at Davidson" (9/01)

"Biology meets the Internet: It's all about communication!" (4/01)

Departmental representative in Spring 1999 and two Fall 1999 event

Scholar Interview committee

Belk Scholarship Interview Panel: 2003-2009:Belk Scholarship is a merit based scholarship

that provides 10 students in each entering class with 4 years of full tuition, room and board, and two summer stipends

- 2009 *CatsConnect* Panel discussion with student mentors
- 2009 *Air quality and lung function: An argument from the couch*: CIS lunch series speaker
- 2007, 2008 *How to succeed at Davidson*: First Year Orientation panel presentation. Came in costume as the late, baseball cap and sweats, texting, student (example of what not to do). Panel included Registrar, Student and Asst Dean of Students.
- 2006, 2008 ‘Goggles for Non-Geeks’ Forensic Science: With Dr Cindy Hauser (Chemistry) developed and led 3 hour Saturday morning investigative lab integrating biological and chemical analysis into crime solving. Participants were 8, 8th graders 11/06 4/08
- Search Committee for Biology Visiting Assistant Professor position (sabbatical replacement to help cover those on sabbatical, others on reduced load)
- 2006-2007 Search Committee for Assistant Director for Medical Humanities (Successful during second round.)
- 2006 Participated in external review of Anthropology Department
- Participated in external review of Medical Humanities Program
- Family Weekend Speaker ‘From Pedagogy to Practice’ Presentation discussing the HHMI Bridge Program and pedagogy intended to instill interest in continuing on to College and continue on in science. 10/20/06
- ‘Blood Hunters: Lessons in Communication from a Forensic Serology Seminar’ Teaching Improvement Grants - Sharing Session 4/11/06
- 2005-06 SACs accreditation committee examining Humanities program
- 1999-2004 NOAH junior faculty group presentations:
 “Integrating wweb and website authoring into a seminar class” (2/99)
 “Honor Code at Davidson College: Reflections from a Review Board member” panel discussion (2/00)
 “Honoring the Code: Process and Prospects at Davidson” (10/02)
 “Testing methods: Finals with a Twist.” (3/03)
 “What we should have, could have, or wished we hadn’t done”. (9/03)
- 2002 Technology and teaching: AAG Brownbag lunch series (9/02)
- 2002 Blackboard: Teaching with Technology Showcase. (5/02)

- 2002 “Information Fluency: Click early and often” Teaching with Technology Presentation (3/02) co sponsored by NOAH, Academic Affairs and Information Technology Services.
- 2002 “Discussing ‘the Heart of the matter’: The use of animals in biomedical research” (3/13/02) Discussion of the ethics of animal research and of using the results of animal research as part of Speas Symposium on Bioethics.
- 2001 Teaching with Technology: Blackboard Fall Institute opening speaker (12/01)
- 2001 Class of 1941 Panel speaker Homecoming weekend: (9/01) Spoke with alumni about developments in the biology department and the biology major.
- 2001 Department Representative accompanying 4 Davidson Students to give presentations at the North Carolina Academy of Sciences Annual Meeting at UNC-Greensboro (3/01)
- 2001 Presidential Parents’ Weekend Speaker (2/01): “A Question of Relevance: ‘Hands-On’ science cements theory in application”

4. Advising responsibilities

- 2002-present First Year Student Registration contact
One of four faculty members fielding questions from incoming students and their parents regarding course loads, course selection, W courses and tree registration.
- 1998-present Academic advisor for 41 students during their first two years
Biology major advisor for 82 students
Primary major advisor for 4 students through Center for Interdisciplinary Studies (majors in Bioethics and Biophysics)
- 2001-2008 ‘Master teacher’ mentor as part of the NSF Preparing Future Professors/ Teaching Certificate program. Meet bimonthly, critique guest lectures, maintain contact by email, help develop teaching portfolio, develop teaching skills and resources.
2004- 2008 Samantha Kerry, Ph.D. Postdoctoral fellow, Duke University Microbiology Department
2001-2004 Jennifer Nelson, Graduate Student, Duke University Biology Department