

# James Endres Howell, Ph.D.

Department of Biochemistry and Molecular Biology  
Eberly College of Science  
The Pennsylvania State University  
202 Frear South Building  
University Park, PA 16802

jhowell@psu.edu

(814) 865-7736

bmb.psu.edu/jeh

## Education

### Ph.D. Molecular and Cell Biology

University of California, Berkeley, December 2005.

Dissertation: *Wnts are guidance cues in anterior-posterior neuronal migration.*

### B.S. Molecular Biology (concentrations in both Cell Biology and Biochemistry)

University of Pittsburgh, April 1998 (both Departmental and University Honors).

Thesis: *Biochemical analysis reveals unique roles for BiP at the first checkpoint of the secretory pathway.*

## Positions held

*Penn State University Department of Biochemistry and Molecular Biology*  
**Director of Undergraduate Studies**

*March 2013–present*

*Penn State University Department of Veterinary and Biomedical Sciences*  
**Coordinator of Undergraduate Advising**

*July 2006–March 2013*

Oversaw bachelor's degree programs in Toxicology and Immunology and Infectious Disease: advising, admissions, retention, placement, curriculum, assessment, alumni relations, and undergraduate program administration. Taught 3.0 credit First Year Seminar VB SC 050S "Mechanisms of Disease" and 1.0 credit research and primary literature course VB SC 497C "Undergraduate Research Colloquium."

Awarded the 2011 **Alpha Chi Sigma Professor Award**

*Lock Haven University of Pennsylvania Department of Biological Sciences*  
**Assistant Professor** (non-tenure track one-year appointment)

*August 2005–June 2006*

Taught Basic Biology (introductory general education biology laboratory course); Principles of Biology (introductory majors biology laboratory course); and Human Health and Nutrition Seminar (general education course for third and fourth year BA students).

*Prison University Project*  
**Co-instructor**, Biology

*Fall semester 2002*

Collaborated on the syllabus and taught the neurobiology sequence in an introductory biology course at San Quentin State Prison, in California's only accredited college program for convicts.

*University of California, Berkeley*

*Spring semester 2002*

**Graduate Student Instructor**, Introduction to Neurobiology (instructor: John Ngai, Ph.D.)

Awarded the 2002–2003 **Outstanding Graduate Student Instructor Award**  
and the 2002–2003 **Teaching Effectiveness Award**

*University of California, San Diego*

*Fall semester 1999*

**Teaching Assistant**, Embryology Laboratory (instructor: Kathleen French, Ph.D.)

Awarded the 1999–2000 **Paul Saltman Excellence in Teaching Award**

## Administrative duties and initiatives

**Program Coordinator, Toxicology and Immunology and Infectious Disease** undergraduate degrees  
**Chair annual program faculty meetings; personally process all academic forms** including change of major, change of campus, entrance to major, concurrent major, graduation, degree audit petition, etc.; represent the programs at monthly **Program Coordinators meetings** in the College of Agricultural Sciences Office of Undergraduate Education; **established, review and maintain procedures** for annual curriculum review, and streamlined process for academic substitution approval by faculty consensus; carry out **other responsibilities as they arise**.

### **Environmental Toxicology Inquiry Curriculum (eTOXIC) (2009-2012)**

**Principal Investigator** (with Dr. Tracy Hoover)

Funded by the National Institute for Environmental Health Sciences, our team, including a full-time multimedia specialist and full-time instructional designer whom I supervise directly, are developing and deploying an open courseware, hybrid classroom-laboratory-online curriculum with the aim of introducing high school students to the practice of research science via engaging and relevant content.

### **Academic Programs Assessment (2008-2010)**

Coordinated, initiated, and implemented the department's efforts in **course and curriculum learning outcomes assessment** as part of the University wide effort to comply with recommendations from **Middle States Association of Colleges and Schools** for institutional accreditation; organized and coordinated half-day workshop for faculty in partnership with Dr. Neill Johnson of the Schreyer Institute for Teaching Excellence (March 2008); oversaw and guided individual faculty in **improving course syllabi** to include learning goals and learning objectives as well as **objective assessment instruments**; drafted and coordinated consensus and adoption of **Program Goals**.

### **Web site redesign (2008-2009)**

Supervised successful and **complete redesign and migration of hundreds of departmental web pages** to a new web platform as departmental liaison in partnership with WebLion, including redesigning information architecture, writing, editing, and supervising construction of first new department web site in 11 years.

### **Web, IT, and network/security staffing (2007-2008)**

Oversaw successful integration of IT and web administration into reorganized position (2007-2008) including chairing two hiring committees; **supervised new position** (jointly with departmental administrative support coordinator Valarie Kelley) as part of web redesign, network security improvement, user support, and other efforts.

## Academic advising

Academic adviser assigned to every student in Toxicology and Immunology and Infectious Disease

Carry approximately **150 students on my eLion advising roster** consistently since 2008

Meet with approximately **200-250 scheduled and 50-75 drop-in advising appointments** annually

**Honors adviser** for all Scholars (21 currently) in both programs

Write **20-30 letters of recommendation** annually

Meet with each student intending either program in **First Year Testing, Consulting, and Advising Program** (“FTCAP;” approximately 20 annually; also assist with incoming VB SC students)

Sit on College of Agricultural Sciences **FTCAP planning committee** (Dr. Terry Musser, chair)

College of Agricultural Sciences **Advising Mastery Team** (January 2010–present)

Founding member of committee to establish, implement programmatic training and support for, and assess faculty advising competencies (Principal Investigator: Terry Musser, Ph.D.)

**eLion Advising Committee** (March 2008–present)

Sole faculty representative on University-level academic advising committee

## Facilitating learning communities

Faculty advisor, **Biomedical Sciences Club** (official recognition, January 2007)

Recruited first group of officers and closely nurtured the group in weekly evening meetings for the first year; **Outstanding New Student Organization Award finalist**, 2007

Drove 13 students on a day-long trip to NIH campus in Bethesda MD (November 2012)

College of Agricultural Sciences annual **New Student Orientation** (Fall, Springs as needed, 2006-present)

College of Agricultural Sciences annual **Club and Information Fair**

(first week of fall semester 2006, 2007, 2008, 2009; then delegated to Biomedical Sciences Club)

**Coffee Break** (academic years 2006/7, 2007/8, 2008/9; then delegated to Biomedical Sciences Club)

Hosted Friday afternoon coffee, tea, and cookies for third floor Life Sciences Building denizens and vagrant undergraduate and graduate students

## Research support

**Principal Investigator**, NIH 5 RC1 ES018496-02 (September 2009–July 2012)

with Dr. Tracy S. Hoover, Professor and Head, Department of Agricultural and Extension Education

**National Institutes of Health American Reinvestment and Recovery Act Grant**

**“Recruiting the Next Generation of Environmental Toxicologists”**

Aims: to develop and deliver online curriculum modules in environmental toxicology and professional development opportunities for teachers and student teachers; to provide research experience to talented high school students and recruit them into research careers in toxicology.

**Total costs: \$995,833**

## Teaching

VB SC 050S (3.0) **Mechanisms of Disease** (Fall 2007, 2008, 2009, 2010, 2011, 2012)

All first year students entering the College of Agricultural Sciences with an interest in Toxicology and Immunology and Infectious Disease are placed into my section of this First Year Seminar.

In addition to the extended academic advising orientation, introduction to campus resources, and support for the transition to university life and academics common to Penn State FYS courses, this three hour course includes introductory lectures in basic concepts and vocabulary in molecular and cell biology, pharmacology, toxicology, immunology, and epidemiology.

Subsequently, each student picks two course topics, and working closely with me researches, prepares and delivers the lectures and facilitates classroom discussion. I sit in the back and raise my hand to be called on for questions and comments like the rest of the group. Presentations—and discussion facilitation—are evaluated by solely by peers. Students are required to participate in each discussion, to post more deliberative short responses to class discussion on their blogs, to orally critique one popular media article on course topics, and to substantially improve at least one article on Wikipedia based on their course topic research.

Judging both anecdotally and by SRTes and my own assessment instruments, this model has greatly strengthened student engagement and ownership in the course, internal resources for choosing a major, and learning outcomes.

VB SC 497C (1.0) **Undergraduate Research Colloquium**

Spring 2007 (offered informally), Spring 2008, 2009, 2010, 2011, 2012, 2013 (for credit)

In 2007 I took over the department's non-credit requirement that all first year Honors Scholars (four students that year) sit through a weekly series of listening to faculty introduce their research. The next year I put the course on the books for 1.0 credit, opened it up to all interested underclass students in the majors, provided guidance and feedback to the faculty presenters, and introduced a pedagogical structure with weekly assignments.

Introductory lectures present structure and conventions of peer-reviewed journal articles, scientific writing style, and the use of Pubmed and other online resources, in order to prepare students to begin to approach primary literature and respond in writing with substantive questions. Each week students prepare for class by drafting a summary of their own reading of the presenter's recent papers. Learning outcomes (in particular, the quality of the discussion questions) and student engagement have increased dramatically.

## Keynotes and invited seminars

“Preparing for a Career in Academic Advising by Earning a Ph.D. in Molecular Biology” (October 27, 2011)

**Keynote**

**Penn State Division of Undergraduate Studies Annual Conference**

*(regional academic advising conference)*

“Choosing a Major in the Life and Biomedical Sciences” (July/ August 2009, 2010, 2012)

Major annual **Office of Admissions “Spend a Summer Day”** event; presented all six days a morning orientation session covering the comprehensive list of Penn State life sciences majors in eight of the thirteen undergraduate colleges to hundreds of families

Panel member: “Choosing a major, having a career, and raising a family, in science” (December 2, 2010)

Dinner with **Discover House** students followed by panel discussion with my saintly spouse and astonishingly well-behaved toddler (organized by Laura Brown, DUS)

## Keynotes and invited seminars (continued)

Presenter and facilitator: "Academic Advising Roundtable" (August 11, 2010)

Proposed and led a system-wide discussion of college-related issues in academic advising at the  
**College of Agricultural Sciences Campus Representatives and Academic Program Coordinators Annual Meeting** (with Penny Carlson)

"First Year Students Blogging: Lessons Learned" (March 27, 2010)

**Penn State Teaching and Learning with Technology Symposium**

Panel member: "Faculty Engagement in the Process of Program Assessment" (January 2009)

**Schreyer Institute for Teaching Excellence Assessment Conference**

Panel member: "Disruptive Technologies" (July 2009)

**Learning Design Summer Camp** (Penn State Teaching and Learning with Technology conference)

"Helping Students Discover Life Sciences at Penn State" (March 26, 2010)

**Penn State Division of Undergraduate Studies Spring Conference**

**Schreyer Honors College** spring recruitment **Open House**

Presented all life sciences majors, moderated student panel (April 2009, 2010)

Moderated student panel (April 2008)

"Structure, Order, Life, and Beauty: Abe Ajay's *Polychrome Relief 209*" (October 17, 2009)

**Palmer Museum** gallery talk, *Perspectives Unbound* public lunch series

Contextualized the aesthetic contrast of order and disorder in Ajay's collage work with principles of cellular metabolism and statistical thermodynamics

"Using Facebook in Academic Advising and Recruitment" (July 2008)

**Learning Design Summer Camp** (Penn State Teaching and Learning with Technology conference)

"Environmental and Biomedical Sciences: Strategies for Success in Advising" (April 2008)

**Pennsylvania School Counselors Association** (PSCA) annual conference

presented jointly with Tarrah Geszvain (Environmental Resource Management) and Jamie Murphy (School of Forest Resources)

"How Not to Choose a Career" (November 13, 2007)

**Keynote**, joint Upper St. Clair School District and Canon-McMillan School District  
**Engineering and Sciences Career Fair**

"Advising High School Students Interested in Toxicology, Immunology and Infectious Disease"

Regional meeting of high school guidance counselors

Greater Allegheny campus (September 28, 2007)

"Advising Undecided Students Interested in Toxicology, Immunology and Infectious Disease"

**Penn State Division of Undergraduate Studies Spring Conference** (April 17, 2007)

Panel member: "Balancing Family and Career in Science" (March 28)

Participated in panel discussion and Q&A with my spouse and two other couples

## Keynotes and invited seminars (continued)

“Advising High School Students Interested in Biomedical Sciences”

Regional meeting of high school guidance counselors

Harrisburg campus (December 1, 2006)

## Admissions

*In addition to incidental admissions events too numerous to list, I consistently participate in the following events and initiatives in each annual cycle:*

College of Agricultural Sciences **Student Recruitment and Enrollment Committee** (2006-present)

Attend monthly planning meetings; founding member

**Accepted Student Programs** (three each spring; 2006-present)

Meet with families for lunch in dining commons, meet informally with students privately (joint between College of Agricultural Sciences and Office of Admissions)

**Spend a Summer Day** (six events each summer; 2006-present)

Present Toxicology and Immunology and Infectious Disease to prospective students and their families in small afternoon sessions; in 2009, 2010 and 2012, I represented **all life sciences majors** to hundreds of families in a morning orientation session for the Office of Admissions

**Accepted Student Stay-Over** (2009, 2010, 2011, 2012)

Coordinate current student chaperones, meet and greet accepted students, and make two evening presentations in Dr. Nüket Acar’s sleeping bag weekend event

**Environment and Natural Resources Institute** (ENRI) Marketing Team (2007-present)

Attend monthly meetings; founding member; strategize with other environmental sciences majors in the College in order to present a unified marketing message about opportunities in these fields

**Individual meetings** with up to 20 prospective students and their families per year (2006-present)

## Professional development

**Fostering Student Global Engagement through Academic Advising** (November 2012)

**Mastering SuperVision** (Spring 2011)

Human Resource Development Center (HRDC) course

Semester-long, 72 hour course in leadership and management (3.0 credit 500-level equivalent)

National Academic Advising Association **Administrator’s Institute** (February 2011)

**Division of Undergraduate Studies Academic Advising Conference** (2006-2012)

Delivered keynote at 2010 meeting

## **Professional development (continued)**

**The Penn State Leader** (Fall 2010)

Human Resource Development Center (HRDC) course

Eight hour course in “leadership within your sphere of influence”

**Association of Public and Land-grant Universities (APLU)** annual conference June 2010

**North American Colleges and Teachers of Agriculture (NACTA)** annual conference (June 2010)

**“The Role of Faculty Advisors in Student Success”** National Academic Advising Association webinar  
(Penn State New Kensington, May 13, 2010)

**“Generating Buy-In”** Human Resource Development Center (HRDC) course (February 2009)

**“Writing for Clarity and Impact”** Human Resource Development Center (HRDC) course (May 2009)

**“Writing Across the Curriculum”** Human Resource Development Center (HRDC) course (May 2009)

College of Agricultural Sciences **Faculty Advising Session** (December 16, 2008)

Participated in a prototype faculty advising training and subsequent brainstorming session with other full-time academic advisers led by DUS coordinator Dr. Terry Musser

Faculty Senate **Course Submission and Consultation System (CSCS)** training (October 2008)

**Penn State Web Conference** (May 2008)

**Road Scholars Tour** (May 2008)

Participated in Penn State University President’s statewide bus tour for new faculty

**Living the Vision of a Student-Centered University** Penn State conference (November 27, 2007)

**Student Organization Advisor Training** (September 19, 2007)

**New Faculty Orientation** (August 16, 2007)

**Pennsylvania Association for College Admission Counseling (PACAC)**

annual conference (June 24-27, 2007)

**Society of Toxicology** Mid-Atlantic Regional Meeting, Rutgers University (May 23, 2007)

**Web 2.0: What does it mean for faculty?** (May 17, 2007)

Teaching and Learning with Technology workshop on faculty and social media

**ANGEL Training: Updates for Faculty** (May 15, 2007)

**Retaining At-Risk Students** half-day program in Office of Educational Equity (February 5, 2007)

## **Professional development (continued)**

**Data Warehouse I, II, III; Student Data Training; Advanced Microsoft Access**  
(January/February/March 2007)

**Helping Students in Distress** workshop, Counseling and Psychological Services (October 10, 2006)

**“Crash Course on Advising” Parts I and II** (August 29 and October 10, 2007)  
led by Dr. Linda Higginson, DUS Coordinator for the College of Agricultural Sciences

## **Service**

College of Agricultural Sciences **Student Scholarships and Awards Committee** (2010-2012)  
Elected by faculty peers

College of Agricultural Sciences **Learning Outcomes Assessment Advisory Team** (2008–present)  
Founding member of academic programs assessment team

College of Agricultural Sciences **DUS Coordinator Search Committee** (December 2007)  
Sole faculty representative on committee that filled top College advising position

**Pre-professional Evaluation Committee** (July 2007–present)  
Participate in Pre-Medical Advising Office “committee letter” interviews for medical school applicants

**Goldwater Fellowship Selection Committee** (2010, 2011, 2012)

**Schreyer Honors College Selection Committee** (2007, 2008, 2009, 2011)

**Pennsylvania Governor’s School for the Agricultural Sciences Selection Committee** (2007, 2008)

Departmental **Strategic Planning Retreat** (August 2009)

School of Forest Resources **Undergraduate Program Coordinator Search Committee** (April 2009)  
External member

**Palmer Museum audio tour** voice actor (October 2008)  
Volunteered to record podcasts describing works in the permanent collection

**THON** faculty and staff overview reception (November 2008)

**Pennsylvania Junior Academy of Science Selection Committee** (interviews May 19, 2008)

**Bunton Waller/Pennypacker Experience** life science advising session (March 2008)  
Invited to meet with high-achieving first-year minority science students in their special housing option dining room to discuss academic advising issues across a variety of relevant majors

**Envirothon** (July 26, 2007)  
Judged posters and chatted with students about majors and careers in environmental sciences



## Service (continued)

### College of Agricultural Sciences Commonwealth Campus Advising Assessment (April 2007)

Participated in focus group interviews with upperclass students who started at other campuses

### College of Agricultural Sciences Advising Handbook Working Group (Spring semester 2007)

Participated in ad hoc group of advisers assembling advising materials for faculty (led by Dr. Linda Higginson, DUS Coordinator for the College of Agricultural Sciences)

### Banned Book Read-A-Thon (September 9, 2006)

Public reading of a thirty minute excerpt from Robert Newton Peck's *A Day No Pigs Would Die* in Pattee Library for a joint event of University Libraries and the Pennsylvania Center for the Book

### College of Agricultural Sciences Commencement Ceremony

(and Ag Alumni Brunch, Spring 2007, 2008, 2009, 2010, 2011)

Served as **nomenclator** Spring 2009 and 2010

(Summer 2009, Fall 2007, 2008, 2009, 2010, 2012)

Represented Department and College; took a ton of teary, joyful pictures

### College of Agricultural Sciences Scholarship Banquet (2007, 2008, 2009, 2010, 2012)

Represented Department and academic programs at the College's headline annual alumni and academic recognition event

### Schreyer Honors College Medal Ceremony (platform party Spring 2009; medal tier Spring 2010)

## Campus visits

Met with students, faculty, and academic advisers at **Altoona** (October 2012)

Webcast guest lecture for AG 113 Careers in Ag Sciences to **numerous campuses** (April 2010)

Met with students, faculty, and academic advisers at **Harrisburg** (November 12, 2009)

Met with students during **Altoona** visit to University Park (April 2009)

Webcast guest lecture for AG 113 Careers in Ag Sciences to **numerous campuses** (September 2009)

Virtual campus visit: webcast for students at **all campuses** (November 2009)

Met with students, faculty, and academic advisers at **Berks** (October 2008)

Met with students, faculty, and academic advisers at **Altoona** (April 2008)

Met with students, faculty, and academic advisers at **Hazleton** (October 26, 2007)

Met with faculty and academic advisers at **Greater Allegheny** (September 28, 2007)

Met with students, faculty, and academic advisers at **Altoona** (September 13, 2007)

Met with students, faculty, and academic advisers at **Altoona** (April 19, 2007)

Met with students, faculty, and academic advisers at **Mont Alto** (April 13, 2007)

Met with students, faculty, and academic advisers at **York** (March 20, 2007)

Met with students, faculty, and academic advisers at **Harrisburg** (December 1, 2006)

## Hosted speakers

*For Veterinary and Biomedical Sciences' **Bortree Seminar Series:***

**Deborah Fowell**, University of Rochester Medical School (February 2010)

**Graham Hatfull**, University of Pittsburgh (April 2009)

**Christopher Sullivan**, UT Austin (December 2009)

**Jennifer Manilay**, University of California, Merced (January 2008)

**Manuel Llinás**, Princeton University (January 2007)

## Outreach

**Conrad Weiser High School** site visit (May 2011)

Collaborated with Mr. Adam Serfass for live, teacher-led classroom pilot of Module 1 of our environmental toxicology curriculum over five days

**Oley Valley High School** site visit (May 2011)

Met with agricultural sciences and anatomy and physiology teachers to gauge interest and refine topics and activities for subsequent modules of our environmental toxicology curriculum

**Pennsylvania Association of Agricultural Educators** Summer Conference (July 12-13, 2010)

Presented components of Module 1 of our environmental toxicology curriculum and tours of Penn State animal care, environmental and agricultural research facilities as professional development for high school agricultural sciences teachers

**Student Teacher Professional Development Retreat** (half-day program, May 3, 2010)

Presented components of Module 1 of our environmental toxicology curriculum as professional development for pre-certified high school agricultural sciences teachers

**Multicultural Scholars Math and Science Experience** (half-day program, Spring 2009, 2010, 2011)

Presented academic advising and toxicology/immunology content to high-achieving minority high school students, and coordinated hands-on activities led by departmental postdoctoral fellows, graduate students, and undergraduates

Biomedical Sciences Club **Annual Undergraduate Research Conference** (2010, 2011)

A committed group of obscenely talented and ambitious students envisioned, found funding, and executed (now a second annual, with a third in the works) regional undergraduate research conference, complete with famous outside speakers; my role was to make opening remarks, greet esteemed visitors, and publicly burst with pride

**Farm Show** (January 2007, 2008, 2009)

Showed students of all ages their own buccal epithelial cells under a compound microscope and taught them to extract genomic DNA from strawberries using household items (shampoo, rubbing alcohol, and table salt) at a high-profile annual College of Agricultural Sciences outreach event

## Outreach (continued)

### **Ag Progress Days** (August 2006, 2007, 2008, 2009)

Represented Toxicology and Immunology and Infectious Disease at the College's biggest annual outreach event

### Penn State Pre-Vet Club's annual **Northeast Pre-Vet Conference** (March 2009)

Presented workshop on college admissions and advising for parents

### **Gettysburg High School** campus visit (half-day program, March 2009)

Hosted tour of toxicology and immunology research laboratories and other facilities for Mr. William Tindall's agricultural sciences classes

### **Ag Day** (2009, 2010)

Represented Toxicology and Immunology and Infectious Disease (with Biomedical Sciences Club members) at College of Agricultural Sciences spring outdoor outreach event on campus

### **Pre-Vet Camp** (July 2009)

Presented workshop on college admissions and advising for students and parents at department's annual summer outreach event

### **State High** campus visit (with Dr. Avery August, October 2008)

Met with math and science teachers to present majors and discuss academic advising issues

### Schreyer Honors College **SHOtime** (fall orientation event; August 2008)

Moderated entering first-year Scholars' debate on ethics of global HIV/AIDS treatment

### **Biodays** (April 12, 2007 and November 9, 2007)

With Biomedical Sciences Club, showed middle school students their own buccal epithelial cells under a compound microscope and taught them to extract genomic DNA from strawberries using household items (shampoo, rubbing alcohol, and table salt); delegated this event to the club in subsequent years

### **College of Agricultural Sciences Scholarship Banquet Student Marshall Selection Committee**

(interviews October 3, 2007)

### **Pennsylvania Governor's School for the Agricultural Sciences** (June 26-29, 2007)

Taught two-day immunology sequence (and sat in on Dr. Jack Vanden Heuvel's two-day toxicology sequence) in a four-day mini-course

### **Conrad Weiser High School** campus visit (half-day program, April 25, 2007)

Hosted tour of toxicology and immunology research laboratories and other facilities for Mr. Steven Miller's agricultural sciences classes

## Outreach (continued)

**Gettysburg High School** campus visit (half-day program, February 27, 2007)

Hosted tour of toxicology and immunology research laboratories and other facilities for Mr. Steven Miller's agricultural sciences classes

**John Bowne High School** campus visit (half-day program, November 10, 2006)

Presented majors and academic advising information to 30 high-achieving minority students from an urban agricultural sciences magnet school (College of Agricultural Sciences event)

**Northern York High School** campus visit (half-day program, September 13, 2006)

Presented majors and academic advising information and performed strawberry DNA extraction for 40 students and their families (College of Agricultural Sciences event)

**Science/Technology High School of Harrisburg** campus visit (half-day program, September 13, 2006)

Presented majors and academic advising information and performed strawberry DNA extraction for 30 students and their families (Office of Admissions event)

College of Education **Center for Science and the Schools** (CSATS) luncheons

Occasionally attend campus-wide lunch socials to network with science education and outreach personnel from Ag Sci, Eberly, Education, WPSU, and other units

## Alumni

**Alumni Program Group** established 2010

Alumni outreach and organization efforts (with Dr. Nüket Acar)

**Alumni News** (2007, 2008, 2009 in print mailings, subsequently moved to online updates via web)

Edited, designed, produced, and co-wrote (with Dr. Nüket Acar) the Department's newsletter to alumni, part of a broader effort to initiate the first formal alumni development effort in 30 years

**Annual Alumni Tailgate Event** (2007, 2008, 2009, 2012)

Coordinated, implemented, and co-emceed half-day alumni events at home football games (participated in 2010)

## Affiliations

National Academic Advising Association (NACADA)

National Association of Biology Teachers (NABT)

## Selected publications

Howell, C. E. and **J. E. Howell**. (2010) *American Biology Teacher* 72:313–314. [Sectioning clay models makes anatomy and development tangible.](#)

Pan, C. L., **J. E. Howell**, S. G. Clark, S. Cordes, C. I. Bargmann, and G. Garriga. (2006) *Developmental Cell* 10:367-77. [Multiple Wnts and frizzled receptors regulate anteriorly directed cell and growth cone migrations in \*Caenorhabditis elegans\*.](#)

McClellan, A. J., **J. B. Endres**, J. P. Vogel, D. Palazzi, M. D. Rose, and J. L. Brodsky. (1998) *Mol. Biol. Cell* 9:3533-3545. [Specific Molecular Chaperone Interactions and an ATP-dependent Conformational Change Are Required during Posttranslational Protein Translocation into the Yeast ER.](#)