Welcome to the new year!

I hope that this year turns out to be positive and successful. As usual there is a lot going on and, because of that fact, this first-of-the-year issue of my newsletter is EXTRA LARGE. I encourage you to go through this issue carefully and keep it handy as a reference over the months to come.

I want to use this issue introduction space to highlight a few things from my COE Fall Faculty Meeting presentation on September 5th.

First, please remember to see the EDIT team regarding your future grant submission plans (slide 4). Second, see the details on the cash incentive program for grant writing (slide 13) and the faculty travel award program (slide 14). Go to my URL to see additional information.

Third, the way the COE deals with cost share on grants will be a bit different than before. Come see me with any questions. In general, given budgetary issues, we will be more strategic in what cost share we can offer, and, particularly for large grants, we will endeavor to pull packages together that include resources from the dean’s office, your department and the office of the VPR (see slide 16). If you think the VPR office might help you, please call on me before calling on them.

Also, we want to further foster our collaborations with the DLC. This includes a more explicit map as to what sorts of COE faculty grants should go through the DLC office. See flow chart on slide 17.

It is important that as you consider your grants that we talk and, if needed, figure out the way to make your application the best that it can be. This may include writing support, business office support or other. The DLC, for instance, has many services and experiences to offer, many of which may make your submission job easier and more fruitful, especially if it is a complex application. In closing, I invite you to see some of the COE’s great achievements in the pages that follow.

Sincerely,

Jeff Gilger, PhD

RESEARCH ON MIDDLE SCHOOL STUDENT AND TEACHER LEARNING

Anita Roychoudhury (PI) and an interdisciplinary team of co-PIs (Dan Shepardson, Brenda Capobianco, Andrew Hirsch, Dev Niyogi) have received funding from the National Science Foundation to conduct research on middle school student and teacher learning. The PI and co-PIs of the project will work collaboratively with classroom teachers from local schools to help 7th and 8th grade students develop a coherent understanding of a crucial issue of our time—global warming and climate change. Despite its importance, very few individuals have an understanding of the issue, because it encompasses concepts from various domains of science. To address this, the project aims at grounding its focus in a connected body of science topics from relevant school curricula.

Middle school students are selected as the target group since arresting the downward trend in student performance in high school science, demonstrated in national studies, needs to begin before students reach that level of schooling. Grounded in these two needs, this project has two goals:

1) Development of a model of middle school student learning in a complex domain requiring a coherent understanding of several disciplines.

2) Development of a model of the ways teachers conceptualize student learning. Together the project team and the participating teachers will collect quantitative and qualitative data to construct models of student learning in the areas targeted by the project.

For more information, please contact Anita Roychoudhury at aroychou@purdue.edu or 496-3920
PRF International Travel Award Recipients

Peg Ertmer (C&I) for travel to the Educational Media Conference in Vienna, Austria
Tim Newby (C&I) for travel to the Education Media Conference in Vienna, Austria
Gerald Krockover (C&I) for travel to the 33rd International Geological Congress in Oslo, Norway
Dan Shepardson (C&I) for travel to the 33rd International Geoscience Congress in Oslo, Norway

I encourage you to contact my office for questions about faculty support mechanisms, or see my webpage.

Below are a few things that are new, or that I want to remind you of.

Travel and Research Seed Development Fund. You can get access to these funds to aid with grant submissions, collaborative meetings, presentation or conference travel, continuing career education, etc.

Web Page and Template Development. I have been gathering some examples of grants, letters of intent, descriptions of resources, example budgets, etc. in electronic form. All of these documents will be on my web site soon. In the meanwhile, if you want to see some of what is available please contact me.

Faculty/Personnel Data Bases. Databases with e-copies of personnel bios, interests and expertise, have been formed. If you are not part of these databases but wish to be, or if your information needs updating, please contact Sherry Hight (shight@purdue.edu) Your department heads may have already asked you for CV updates. Two databases that you should definitely be part of are: the College of Education Expertise Database, and the Community of Science (COS) Expertise® database.

Faculty Project Funding. If you have an idea for a project that needs some sort of funding and you want help considering both nonfederal and federal sources, you might submit your idea, even if it is just a phrase or two, to the Dean’s office. Use the Development Overview for Project Funding Form on my website. Your idea and potential funding resources will be considered by the development, discovery, and engagement/learning offices. We will get back to you with some possible resources or other suggestions.

Search for Funding Agencies. The Dean’s office will conduct a search for funding resources for you if you submit some keywords or ideas to us. Simply send an email to me with the subject “Funding Search” and include at least several key words, and/or other ideas, topic descriptions, needs, etc. We will get back to you soon with a funding resource report.

The Dean’s Award for Outstanding Scholarship. This is an award to recognize a College of Education faculty member for his/her exceptional scholarly contributions. Nominations are due in the Associate Dean’s Office by February 15th, 2009. See http://www.education.purdue.edu/awards/Faculty_Awards.html

For information on other Dean’s Office support and COE award opportunities, contact me or Amanda Leader.

PU Faculty Mentor Award Call

Nominations from Department Heads are due by November 1, 2008. See department heads for more information.
ANNOUNCEMENTS AND REMINDERS

♣ An fMRI research group is being formed. If you have interest in using MRI as a part of your research, or simply want to learn more about opportunities, please contact Tom Talavage in MSEE: tmt@purdue.edu.

♣ Student symposium. The Third Annual Graduate Student Research Symposium will be in late March (TBA)!! Watch for upcoming details and see last year’s PU Graduate Symposium website.


♣ Conferences. We had great showing at the 2008 APA Convention.

♣ Thanks again to Mike Kremer and Greg Howell. For all that they do towards grant processing. Handouts from their workshops on “Sponsored Program Proposal Processing” last year are still available at this link.

Service Learning Grant Program: Funds from the Provost’s Office are available to develop student-centered instruction and community engagement through curriculum. See Amanda Leader or Sidney Moon for more information.

♣ School of Engineering Education Departmental Seminars: Thursdays 3:30-4:30 in Armstrong B071. This is a chance for people interested in engineering education to gather and discuss research in the field, and it is an opportunity for graduate students to present in a supportive atmosphere. For more information see https://engineering.purdue.edu/ENE/AboutUs/Seminars/

NFS Graduate Research Fellowships

https://www.fastlane.nsf.gov/grfp/

PROGRAM WORKSHOPS AVAILABLE:

NSF Application
Thursday, September 11, 2008

NSF Fellows Panel
Wednesday, September 17, 2008

Proposal Writing
Thursday, September 25, 2008

Grad Expo
Sunday, September 28, 2008
Monday, September 29, 2008

NSF Reviewer Workshop
Thursday, October 9, 2008

Engineering NSF Fellowship
Thursday, October 16, 2008

Contact GS Fellowship Office for more details: fellowships@purdue.edu

♣ From practice guides to intervention reports and quick reviews, the National Center for Education Evaluation and Regional Assistance's What Works Clearinghouse (WWC) has released a total of 17 publications throughout the summer. As a new school year begins the WWC invites you to see what's new at http://whatworks.ed.gov. The What Works Clearinghouse was established in 2002 by the U.S. Department of Education's Institute of Education Sciences (IES) to provide educators, policymakers, researchers, and the public with a central and trusted source of scientific evidence of what works in education.

♣ Career and Technical Education Research Seminars! Fridays 12-1p in BRNG 1255. Topics vary and seminars are open to faculty, staff and students. See COE www.calendar for more information.
**Welcome to the New COE Faculty!**

**Curriculum & Instruction**

**Rachael Kenney**, Assistant Professor in Mathematics Education, received her Ph.D. from North Carolina State University. She has served as a Lecturer at North Carolina State University and as a Research Assistant with the North Carolina Department of Public Instruction. Her interests include secondary and undergraduate mathematics education, student understanding and use of mathematical symbols, and students interactions with graphing technologies.

**Jill Newton**, Assistant Professor in Mathematics Education Program, received her Ph.D. in Curriculum, Teaching, and Educational Policy from Michigan State University. She has served as a Research Assistant and Teaching Assistant at Michigan State University. Her areas of interest are the content and enactment of written mathematics curriculum in classrooms, including textbooks, state standards documents, and district curricula; the alignment of content and cognitive demand of state mathematics standards and their corresponding state assessments, and secondary mathematics teacher education.

**Corrine Zuege**, Visiting Instructor, received her MS in Education from Purdue University in 1996. Her recent professional experience includes Benton Central Jr-Sr High School in Oxford, IN. She was also the Director and founder of Early Childhood Education laboratory and childcare program in the Family and Consumer Science Department. She has one son who is attending Purdue and enjoys gardening and decorating.

**Lesley Miller**, Director of Targeted Professional Development for the Center for Literacy Education and Research. She is currently being trained as a Reading Recovery Teacher Leader for the CLEAR center. After completing her Bachelor’s degree in Elementary Education at Purdue, Lesley taught primary and intermediate grades in her hometown of Richmond, Indiana. She then completed her graduate work at Purdue in Literacy and Language, while teaching first and second graders in Lafayette.

**Educational Studies**

**Yukiko Maeda**, Assistant Professor in Educational Studies, received her Ph.D. in Educational Psychology (Quantitative Methods in Education) from the University of Minnesota. Yukiko is originally from near Osaka Japan. She is a psychometrician with interest and expertise in assessment in special education.

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**Be a Mentor or Be Mentored!**

The Faculty Mentoring Network Program (FMN) provides new, junior faculty with mentors, who are accomplished teachers and committed to helping junior faculty become stronger instructors. By working with these mentors, junior faculty members can gain new perspectives and insights into teaching strategies and the Purdue culture.

For information about the Faculty Mentoring Network and the Teaching Academy, see [www.teachingacademy.purdue.edu/programs/mentoring.asp](http://www.teachingacademy.purdue.edu/programs/mentoring.asp)

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**SPECIAL ANNOUNCEMENTS!**

The members of the 2008-2009 Faculty Affairs Committee are:

- Anita Roychoudhury (CI)
- Deb Bennett (EDST)
- Susan Britsch (CI) Chair
- John Staver (CI)
- Lisa Bohlin (EDST)

This committee is your representative unit. Watch for news about meetings and fact-finding work planned by this committee for this year!

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**Sherry Hight**, a new secretary in the Dean's Office, will be working on future issues of this newsletter. Please contact her with comments or items you would like to have posted at shight@purdue.edu
EXTERNAL FUNDING OPPORTUNITIES

**Below are some selected support opportunities. Some are unique. Please pass these on to potentially interested colleagues or students.**

The **Mailman Family Foundation** seeks to promote the building of sustainable systems that provide access to high quality early learning experiences for all children. The foundation attempts to effect system-wide change by encouraging responsive public policies. The foundation funds:

- The creation and dissemination of curricula, materials, or tools that promote quality;
- advocacy and strategic communication to inform and build public will;
- applied research designed to inform policy and improve practice; and
- funder collaboratives to expand our learning and broaden our sphere of influence.

For more information, see: [http://www.mailman.org/index.html](http://www.mailman.org/index.html)

**Developmental and Learning Sciences (DLS)** supports fundamental research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to children’s and adolescents’ development and learning. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning with the objective of leading to better educated children and adolescents who grow up to take productive roles as workers and as citizens. For more information, see: [http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671)

**William T. Grant and Spencer Foundations** seek proposals for the Development and Improvement of the Measurement of Classroom Quality. The foundations will support a small group of research projects, one to three years in duration, with award amounts ranging from $50,000 to $500,000 each.

This RFP is part of the foundations’ broader effort to build theory and evidence about how classrooms affect youth and how to improve these effects. For more information, please visit [http://www.wtgrantfoundation.org](http://www.wtgrantfoundation.org)

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**Two Grads to teach At Gunma Kokusai Academy in Japan**

Dusty Miller (’07) and Danny Williams (’08) will begin their teaching careers overseas at the Gunma Academy in Japan, an English immersion school.

This is the first overseas school the College of Education has partnered with to give graduates international work experience after their PU degree. It is the hope that this will be the beginning of expanding teaching opportunities in Japan and creating relationships with schools in other countries.

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**Major Ongoing Initiative on Graduate Student Funding**

This will involve regular opportunity searches in collaboration with departments, development, faculty, the dean’s office, and the graduate studies office. This is aimed at increasing student support and the improvement of our student base. If you have any suggestions as to relevant resources, RFAs, etc., or if you want to get involved in the development of a formal pre doc or post doc training program submission, please contact Jeff Gilger.
2008 Chemical Education Seminars
Wednesday, 4:30 p.m., Room 201 WTHR

Sept. 10—Erik Epp, Graduate Student, Weaver Research Group
Sept. 17—CRESME
Sept. 24—Dr. Ellen Yezierski, Grand Valley State University
Oct. 01—CRESME
Oct. 08—Dr. Barbara Gonzalex, California State Univ., Fullerton
Oct. 15—CRESME
Oct. 22—Amy Micklos, Graduate Student, Bodner Research Group
Oct. 29—CRESME
Nov. 05—CRESME
Nov. 12—Dr. Jim Mohler, Computer Graphics & Technology, Purdue
Nov. 19—CRESME
Dec. 03—CRESME
Dec. 10—Megan Grunert, Graduate Student, Bodner Research Group

For more info, please visit: CRESME Website

STATE OF AFFAIRS REGARDING SCHOLARSHIP AND GRANT ACTIVITY OF THE COE

The following several figures summarize the funding scholarship activity of the COE. Suffice it to say that in general, the COE is showing progress towards research and scholarship growth and national recognition. This progress is due to some very basic factors. First and foremost, is the hard work of faculty. Second, is the coordinated efforts and responsiveness of the business office. Third, is the advertisement of the COE and its offerings across campus and beyond. Fourth, is the persistence of staff and faculty with clear vision and leadership. And finally, of course, there has been patience! If you have any comments or questions feel free to send them my way directly or, if you prefer, anonymously vis a vis the link on the front page of this newsletter. Good work!

The COE is Very Involved in Collaborations Across Units on Campus

The Figure below shows the dollar amount (in millions) of grant activity submitted through any PU unit where a COE staff or faculty has been listed for some percent of time and effort. This documents our campus involvement and it shows significant growth over the past two years. We are very involved in the submissions of projects at PU!

1. All in review or active, denied, and outstanding applications
2. Actual dollar share out of 1 that is owed to COE if grant is funded
The COE Has Been Very Active in Grant Submissions

The Figure below shows the number of grant applications (internal, external, private, state, and federal) submitted through the COE business office (i.e., not submitted through the DLC or other PU unit). This documents our hard work, and it demonstrates the heavy activity of our business office. There is also evidence of average growth and steady pace in this area, especially in the last five years.

The COE and the Challenge to Grow in Funded Scholarship

The next chart below shows the amount of dollars of awards that the COE has received (in millions) due to this grant application activity. Again, there is a slow progression upward, and a sort of “revitalization” in the last 5 years. Bear in mind that this is income and not expenditures just through the COE, other income and additional expenditures through other PU units is not counted here. When all expenditures are counted, as we do for US-NEWs, we are growing each year, with this amount expected to nearly double for the 2008-2009 year’s reporting (last year we reported $4.5 million in expenditures).

What matter most, however, is that this funding helps to support faculty as they pursue their scholarly interests.

Note: Orange bar shows grants awarded with COE as personnel after July 1 and as of September 6th, 2008. This recent two months of awards is larger than any total awards for a 12 month period ever in COE history! It bodes well for our ultimate 2008-2009 statistics and our growing scholarship.
The RCR web site is now up and running! See: http://www.gradschool.purdue.edu/RCR/. RCR encompasses research misconduct, human participants, research involving animals, data acquisition, management, sharing, and ownership, mentor/trainee responsibilities, publication practices and responsible authorship, peer review, collaborative science, conflicts of interests and commitments. On this site are articles, PowerPoints, and other materials that you may want to use yourself or for a class. Note also there is a schedule of presentations on various topics set for Fall, 2008.

### Schedule for 2008

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Integrity</td>
<td>September 18, 2008</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
</tr>
<tr>
<td>Ethical Writing (For new graduate students)-</td>
<td>October 2, 2008</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
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<td>Copyright</td>
<td>October 30, 2008</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
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<tr>
<td>Open Access and what it means to graduate students-</td>
<td>November 6, 2008</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
</tr>
<tr>
<td>Intellectual Property</td>
<td>November 13, 2008</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
</tr>
<tr>
<td>Research Integrity</td>
<td>February 5, 2009</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
</tr>
<tr>
<td>Ethical Writing (For new graduate students)-</td>
<td>February 19, 2009</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
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<tr>
<td>Copyright</td>
<td>March 26, 2009</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
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<tr>
<td>Open Access and what it means to graduate students-</td>
<td>April 2, 2009</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
</tr>
<tr>
<td>Intellectual Property</td>
<td>April 16, 2009</td>
<td>5:00-6:30 p.m.</td>
<td>WSLR 116</td>
</tr>
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</table>

The Faculty Affairs Committee and the Dean’s Office will be soliciting input on a proposed faculty workload differentiation guidelines document. Please watch for opportunities to provide input. Or contact Jeff Gilger or the Faculty Affairs Committee.

Faculty positions open in the COE. See: http://www.education.purdue.edu/about/
The chart above shows the general structure, implied roles and duties of each of the Associate Deans in the COE. While some specificity may be lacking in certain areas, and though some duties overlap between the offices, you might occasionally refer to this chart as you attempt to navigate the “6th Floor” or as you seek appropriate contacts or resources.

Because of the interdisciplinary and collaborative nature of our work, there will necessarily be some overlap between these two offices. For example, there are shared initiatives or programs for faculty and student travel, research training of students, grant acquisition, international issues, etc.

Interim Dean: Dr. Kevin Kelly, kkelly@purdue.edu or 494-2336
Kelly’s Administrative Assistant: Carla Reeves, reeves@purdue.edu or 494-2336
Associate Dean for Learning and Engagement: Dr. Sidney Moon, sidney@purdue.edu or 494-0019

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Associate Dean for Discovery and Faculty Development: Dr. Jeff Gilger, jgilger@purdue.edu or 494-6542
Administrative Assistant for Moon & Gilger: Amanda Leader, aleader@purdue.edu or 494-0019

Business Office: Mike Kremer, mkremer@purdue.edu or 494-2340
Development Office: Jennifer Jeffries, jjeffries@purdue.edu or 496-3545
Office of Information Technology: Bob Evans, bob@purdue.edu or 496-1819
The following are recent awards based on bimonthly reports from the SPS office (July-August). To report errors contact Jeff Gilger. Only the names of the key COE-affiliated faculty are noted. These faculty may/may not be the PIs, and other COE faculty may be involved. Faculty not affiliated with the COE may also be on these grants and if they are PIs their names are provided. For more complete information see the faculty listed or contact SPS' Crystal Dombkowski at crystalb@purdue.edu

<table>
<thead>
<tr>
<th>Major COE Faculty Member Involved</th>
<th>Agency of Award</th>
<th>Title</th>
<th>$ Amount</th>
<th>COE % Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bennett (G. Bertoline, PI)</td>
<td>NSF</td>
<td>NUE: Enhanced Undergraduate Nanotechnology Education with Haptic and Visualization Tools</td>
<td>199,259</td>
<td>25</td>
</tr>
<tr>
<td>Bouck</td>
<td>Nat'l Center for Technology Innovation</td>
<td>Exploring Accessible Computer Algebra System (ACAS) for Secondary Students with a Learning Disability or Visual Impairment</td>
<td>14,986</td>
<td>100</td>
</tr>
<tr>
<td>de Oliveira</td>
<td>Frankfort School Corporation</td>
<td>Frankfort School Corporation subcontract AY 2009</td>
<td>43,480</td>
<td>100</td>
</tr>
<tr>
<td>Gentry</td>
<td>IN DoE</td>
<td>Discover! 2008</td>
<td>10,000</td>
<td>100</td>
</tr>
<tr>
<td>Mann, R</td>
<td>Davidson Foundation</td>
<td>Diversity Initiatives for Gifted Students (DIGS) 2008</td>
<td>20,000</td>
<td>100</td>
</tr>
<tr>
<td>Mann, R</td>
<td>IN DoE</td>
<td>Shared Information Services Transition/Support for DISCOVER</td>
<td>17,981</td>
<td>100</td>
</tr>
<tr>
<td>Moon</td>
<td>SUNY at Albany</td>
<td>SUNY at Albany assistantship</td>
<td>10,000</td>
<td>100</td>
</tr>
<tr>
<td>Riggs/Staver (E. Riggs, PI)</td>
<td>NSF</td>
<td>Purdue Robert Noyce Scholars: Excellence in Preparation of Rural High School STEM Teachers</td>
<td>749,613</td>
<td>17</td>
</tr>
<tr>
<td>Roychoudhury</td>
<td>NSF</td>
<td>Making Sense of Global Warming: Model of Student Learning via Collaborative Research</td>
<td>1,568,132</td>
<td>69</td>
</tr>
<tr>
<td>Samarapungavan</td>
<td>George Washington Carver Fellowship</td>
<td>Harris, Crystal</td>
<td>20,935</td>
<td>100</td>
</tr>
<tr>
<td>Schaffer</td>
<td>NSF</td>
<td>Collaborative Research: Validating Assessment Procedures and Interventions for Enhancing Interdisciplinary Teamwork and Ethical Awareness in Undergraduate Interprofessional Education</td>
<td>117,750</td>
<td>50</td>
</tr>
<tr>
<td>Servaty-Seib</td>
<td>DHHS</td>
<td>ALIVE @ Purdue yr. 3</td>
<td>56,452</td>
<td>100</td>
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<tr>
<td>Strobel (with B Caldwell)</td>
<td>Indiana Space Grant Consortium</td>
<td>400,000 People Landed Apollo 11 on the Moon: A Living Library of Engineers' Stories</td>
<td>10,000</td>
<td>25</td>
</tr>
<tr>
<td>Wood</td>
<td>NSF</td>
<td>Justification in Algebra: Growing Understanding of Algebraic Reasoning (JAGUAR)</td>
<td>192,589</td>
<td>100</td>
</tr>
<tr>
<td>Xin / Tzur (Y. Xin, PI)</td>
<td>NSF</td>
<td>R&amp;D: Nurturing Multiplicative Reasoning in Students with Learning Disabilities in a Computerized Conceptual-Modeling Environment (NMRSD-CCME)</td>
<td>2,969,894</td>
<td>60</td>
</tr>
</tbody>
</table>