

Department of Chemistry and Physics Newsletter

Spring '08

Chair's Corner

Greetings from the *Department of Chemistry and Physics!* Although we await official approval of our merger by the Board of Trustees, the Chemistry and Physics Departments at Indiana State have been effectively functioning as a single unit since summer 2007. All told, the Department now includes sixteen faculty members (twelve chemists and four physicists), a physics laboratory coordinator, a chemistry stockroom manager, and three office assistants. We currently serve 60 chemistry majors and 13 physics majors.

You may recall from last year's newsletter that the University had just received funding from the State to renovate laboratories in the Science Building. Design work is currently underway, and we expect that demolition of old labs will begin this fall. When the renovation is completed in 2010 the chemistry and physics programs may have as many as fourteen new labs and classrooms, for an estimated cost of \$3.4 million.

The chemistry program will get new teaching laboratories for general chemistry and biochemistry and an updated advanced instrumentation and NMR facility. Physics will get new general and modern physics labs, with the latter split into "light" and "dark" rooms to facilitate student work with advanced physics experiments. In addition, the project will likely support the renovation of a number of teaching/research laboratories in environmental, organic, inorganic, and analytical chemistry, the Chemistry and Physics Help Center (see page 7) and the Society of Physics Students (SPS) room.

We have considerable experience renovating our teaching labs. Since 2001, three large teaching laboratories have been updated, including the organic teaching lab (shown below) that was completed last year. The cost of the organic lab project exceeded \$0.5 million. It is a state-of-the-art laboratory that accommodates up to 26 students with ten ventilation hoods, downdraft ventilation at the benches, and support for disabled students.

The Department welcomed two new colleagues this year and bids farewell to another. **Eulsun Seung** and **Beverly Pestel** joined the Department in the fall of 2007 (see page 4). **Eric Preston** has been a member of the physics faculty since 2003. Eric leaves ISU this summer to take a new position in Nebraska (see page 7). We appreciate Eric's many contributions to our physics

program over the past five years and extend to him our best wishes.

Chemistry and physics at ISU continue to depend on alumni for financial support. Gifts made in the past year were used to support student scholarships, our summer research program and student travel to professional meetings. Fifteen students will participate in faculty-mentored research this summer (see page 4), and results of their effort will be reported at a number of professional meetings, including the Indiana Academy of Science Meeting this coming fall and the National American Chemical Society Meeting in Salt Lake City next spring. *Your continuing support of our program is greatly appreciated.*

Keep in touch!

—Eric Glendering

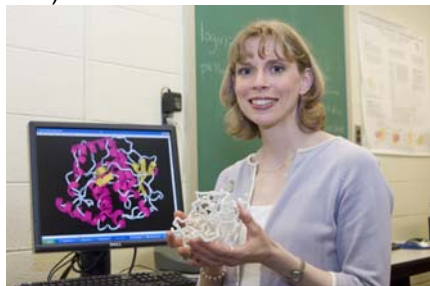


Organic Chemistry Lab Renovation Complete.

Renovation of Science 36 was completed in spring 2007. All organic chemistry laboratory sections (CHEM 351, 352, 355) now meet in this lab.

Chemistry Faculty Profile: Jennifer K. Inlow

Jennifer Inlow joined the ISU Chemistry Department in the fall of 2003 as an adjunct laboratory instructor to cover organic chemistry labs (CHEM 351L) while Prof. Rich Kjonaas was on sabbatical. The following spring she received a tenure-track biochemistry position in the Department and began teaching first-semester biochemistry (CHEM 431) in the fall of 2004.



Professor Jennifer Inlow.

Jennifer grew up in rural North Dakota and attended Jamestown College in Jamestown, ND, where she received B.A. degrees in chemistry and mathematics. She completed her doctorate in 2001 from the Department of Chemistry at Texas A&M University, studying protein folding and stability. During graduate school she developed an interest in bioinformatics, so she subsequently took a bioinformatics postdoctoral position at the University of Arizona. There she conducted a cross-species comparison and analysis of the sequences of human genes implicated in mental retardation and their counterparts in the fruit fly *Drosophila melanogaster*.

Jennifer's current research interests combine her background in protein structure and folding with bioinformatics. While at ISU, her research has focused on structural bioinformatics. For instance, she has involved undergraduate chemistry majors in the analysis of the sequences and structures of a variety of proteins. Her students have presented their work at regional meetings and the national ACS meeting.

Jennifer continues to teach biochemistry (CHEM 431) each fall. She particularly enjoys this course because of its emphasis on macromolecular structure. She believes strongly in the use of physical models and 3-D visualization methods to teach structure, so she is accumulating a large collection of protein models for teaching purposes. She also teaches Elementary Organic and Biochemistry (CHEM 104) for non-majors each spring. She enjoys the challenge of engaging these students and helping them see the relevance of chemistry to their everyday lives and future occupations. Jennifer has also developed an upper-level undergraduate/graduate course in bioinformatics with Prof. Gary Stuart of the ISU Biology Department. They team-taught the course for the first time last fall. This spring Jennifer was honored to receive the College of Arts and Sciences Educational Excellence Award.

More information about Jennifer's research interests and publications is available at:

www.indstate.edu/chem/inlow.html

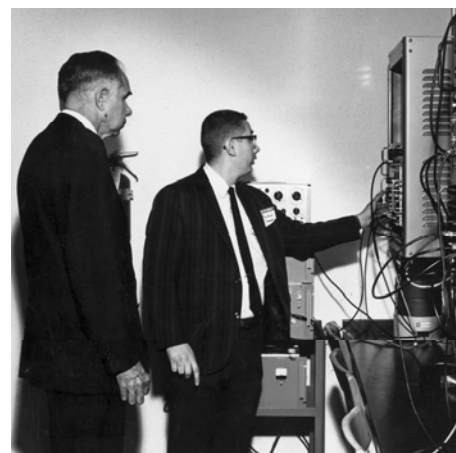
New 3-D Visualization Room

A recent addition to the Science Building is a 3-D visualization room, courtesy of the ISU Center for Instructional Research and Technology. The room features theater-style seating and dual polarized projectors to allow visualization of objects in three dimensions, including molecular structures, using polarized eye glasses. This technology enables students to better comprehend stereochemistry and to visualize macromolecules (such as proteins) for which physical models may not be available. Prof. Rick Fitch has utilized the room in CHEM 355 (Organic Laboratory Techniques) for viewing small molecules and in CHEM 459 (Medicinal Chemistry) for viewing drug-binding sites on proteins.

Steve Wolf Publishes Book Chapter

Steve Wolf contributed to the recently published 3rd edition of "The Chemistry of the Actinide and Transactinide Elements" published by Springer. This five-volume publication is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. Steve contributed the chapter "Trace Analysis of Actinides in Geological, Environmental, and Biological Matrices" and a section on analytical methods for the chapter "Uranium."

The Department has a long history of involvement in the area of radiochemistry. The picture below shows Department of Chemistry Professor Emeritus Don Reuland (right) demonstrating the Department's nuclear counting equipment to Nobel Prize in Chemistry Laureate Dr. Glenn Seaborg (left). This picture was taken in April 1969 on the occasion of the dedication of the north addition to the Science Building and its new Radiation Laboratory that housed a cobalt-60 irradiation source. Seaborg attended the dedication as Chairman of the Atomic Energy Commission. The Radiation Laboratory was decommissioned in 1996.



Professor D. J. Reuland and Dr. Glenn Seaborg at ISU in 1969.

ACS Student Affiliates Activities

The American Chemical Society Student Affiliates (ACS-SA) chapter at ISU provides opportunities for students to become involved in the community, explore career options, serve the Department, and build friendships through social activities. Most ACS-SA members are chemistry majors, but students from related disciplines are welcome and encouraged to participate in the group's activities.

Each semester ACS-SA members participate in a number of outreach and community service projects. For instance, members organized CHEM4KIDS, a one-day chemistry camp for 4th and 5th grade Vigo County students, held on the ISU campus. The ACS-SA also conducted chemical demonstrations for a monthly program at the Terre Haute Children's Museum called Kids 'n' Chemistry. In addition, they helped local Boy Scouts earn their science badges and participated in the American Cancer Society Relay For Life.

Social events this year included "Mock-tails and Movies Night" and a fall cook-out to which all chemistry majors and faculty were invited. In April the ACS-SA sponsored the annual Senior Send-Off dinner, held this year at the Olive Garden restaurant, to honor graduating chemistry majors.

To raise funds, the group sold lab goggles and combination locks to students taking ISU chemistry lab courses, and designed and sold ISU ACS-SA T-shirts featuring the "Top Ten Reasons You Know You're an ISU Chemistry Major."

An Honorable Mention Award for the ISU ACS-SA activities during the 2006-07 academic year was presented to chapter representatives at an awards ceremony at the National ACS Meeting in New Orleans.

Chemistry Students Present their Research at Local, Regional, and National Meetings

ISU Research Showcase

Nine chemistry majors gave poster or oral presentations of their research projects this spring at the 12th annual ISU Undergraduate/Graduate Research Showcase on April 2nd. Held each spring on the ISU campus, the showcase is designed to give students from all departments across the University experience in presenting their work in preparation for regional and national meetings. The showcase also gives faculty and students the opportunity to learn about research being conducted across campus.

Five chemistry students received awards for their posters in the Physical Science / Technology / Engineering category this year: **William Jackson** and **Tyler Fromm**, 1st place, "Methane-to-Methanol Conversion on First-Row Transition Metal Oxide Cations," (E. Glendening, advisor); **Stephanie Braun** and **Adam Arnold**, 2nd place, "Methane-to-Methanol Conversion on Vanadium and Niobium Oxide Clusters," (E. Glendening, Advisor); and **Michael Schulte**, 3rd place, "Preparation and Characterization of Alpha-Phytyl D-Mannopyranoside," (R. Kjonaas, advisor).

Regional Meetings

Nine chemistry students presented posters or gave oral presentations at the following meetings.

- Eli Lilly Undergraduate Research Fellows Symposium, Indianapolis, Aug. 7, 2007;
- 123rd meeting of the Indiana Academy of Science, Indianapolis, Oct. 26, 2007;
- 4th Annual IRCBC Undergraduate Research Symposium, Rose-Hulman Institute of Technology, Terre Haute, Nov. 2, 2007;

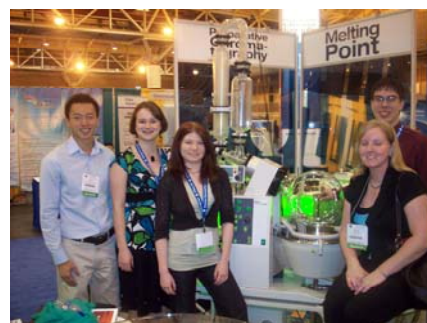
- University of Kentucky Annual Undergraduate Research in Chemistry Regional Poster Session, Lexington KY, Apr. 18, 2008. **Rachael Chase** (R. Fitch, advisor) received the 1st place award for her poster at this meeting.

National ACS Meeting

Twelve chemistry majors (pictured below), along with Profs. Rick Fitch and Eric Glendening, attended the 235th Spring National American Chemical Society meeting in New Orleans in March. Each of the students presented his/her research in the Chemical Education Division poster session. The students enjoyed attending talks and taking in the local sites. Scholarships to cover the students' travel expenses were funded by the Department of Chemistry and Physics, College of Arts and Sciences, ISU Academic Affairs Office, and the Wabash Valley Section of the ACS.



National ACS meeting attendees. Back row, L to R: Stephanie Braun, William Jackson, Michael Schulte, Jennifer McKillup, Tyler Fromm, Ryan Galloway. Front row, L to R: Adam Arnold, Amanda Melberg, Rachael Chase, Mylaka Miller, Lindsey Edenburn, Allen Liu.



Students can't pass up the freebies at the vendor exhibition!

Chemistry and Physics Summer Undergraduate Research Experience

This summer will mark the third consecutive year that the Department has organized a formal Summer Undergraduate Research Experience (SURE) program. This program provides students an opportunity to participate in an intensive research experience under the direct supervision of a faculty mentor from the Department.

Research fellowships are supported by a combination of funds from the College of Arts and Sciences, the Department of Chemistry and Physics, as well as intramural and extramural funds obtained by the faculty, including:

- National Institutes of Health
- Research Corporation
- The Camille and Henry Dreyfus Foundation
- Eli Lilly and Company
- ISU Department of Chemistry Joseph Siefker Fellowship
- ISU University Research Committee
- ISU Promising Scholars Program
- ISU Center for Public Service and Community Engagement



SURE 2007 participants and faculty advisors.

The SURE 2007 program ran from the middle of May through the end of July. Students who received full-time appointments typically spent 8 hours every weekday in the Department throughout this time period. They spent their time principally in the laboratory, though considerable time was also taken for reading and searching the scientific literature, as well as discussing their progress with their peers and faculty in a series of informal group meetings.

Mid-summer diversions included bowling, pool, and a canoe trip down Sugar Creek in Parke County. The summer program concluded with a series of formal oral presentations given by the students. Ten of the students participating in SURE 2007 presented their research at the 2008 Spring National American Chemical Society meeting in New Orleans.

The SURE 2008 program will begin soon. Fifteen students have been awarded either full-time or half-time fellowships to work with eight faculty members in the Department.

The students who have been awarded fellowships and their faculty mentors are:

2008 SURE Fellow	Research Advisor
Andrew Beaven	E. Glendening
Joshua Brown	E. Glendening
Anna Coffey	R. Fitch
David Counce	R. Kjonaas
Ryan Galloway	S. Wolf
Joe Glair	L. Rosenhein
Chris Hauger	E. Glendening
Ryan Lidster	J. West
Mylaka Miller	R. Fitch
Megan Morris	G. Zhang
Elizabeth Neeley	B. Flurkey
Nicole Perigo	G. Zhang
Michael Schulte	R. Fitch
Kendall Seward	R. Fitch
Peggy Williams	R. Kjonaas

New Members Join the Chemistry Faculty

This past fall the Department welcomed two new chemistry faculty members.

Although her faculty appointment is within the Department of Chemistry and Physics, **Eulsun Seung** was hired to teach elementary and secondary science education methods courses in the ISU Center for Science Education. Prof. Seung, who is originally from South Korea, completed her Ph.D. in Science Education at Purdue University in 2007. Eulsun just received word that she is a recipient of a Promising Scholars award from the University for her work on elementary science teacher preparation.

Beverly Pestel has a unique position in the Department as a full-time special purpose faculty member. She taught CHEM 100, 105, and 106 labs during the past academic year. She is interested in teaching methods, and is working to design alternative approaches for the traditional 100-level chemistry lab courses. This spring Prof. Pestel received an award from ISU First-Year Programs for her positive influence in the classroom on first-year students.

Faculty Briefs...

Chemistry: **John Allen** and **Sandy Allen** are continuing to fine-tune their book which is being used in CHEM 100. **Rick Fitch** is teaching a medicinal chemistry course. His research group currently consists of several undergraduate students, a research technician, and a postdoctoral fellow. If you know **Bill Flurkey**, then you won't be surprised to hear that he's still working with undergraduate research students. They have been studying mushroom proteins and the protein content of bottled protein drinks, as well as investigating Nutrasweet hydrolysis. **Eric Glendening** still teaches freshman chemistry and serves on committees to revise ISU's general education program and to prepare for university re-accreditation. Eric is the lead programmer for the natural bond orbital methods. As of this spring, **Arthur Halpern** is serving as the provisional chairperson of the recently reorganized ISU Biology Department. **Jennifer Inlow** is the recipient of this year's Arts and Sciences Educational Excellence Award. On Jennifer's effort in the classroom, one student wrote "I think that Dr. Inlow is just perfect!" **Rich Kjonaas** has been enjoying the newly remodeled organic teaching laboratory and has been integrating the 400 MHz NMR into the course. **Beverly Pestel**, after serving as a temporary faculty member teaching chemistry, physics, and science education, joined the Department as a full-time "special purpose" faculty member this past fall. She is currently teaching some freshman courses and, in keeping with her area of expertise, is working on the development of new ways of teaching science to non-science majors. **Larry Rosenhein** is still serving as the advisor to the ACS-Student Affiliates, and will work with a research student this summer. **Eulsun Seung** joined the Department this past fall. Her research and teaching duties are in the area of science education. Although her background is in chemistry, her office is on the first

floor with the physicists. **Steve Wolf** was recently promoted to Associate Professor and he continues to do research in cosmochemistry. He spent his sabbatical this spring writing a paper on trace elements in lunar and Martian meteorites.

Physics: **Valentina French** no longer has to take care of all the duties that typically fall into the lap of a chairperson, but she has agreed to serve as the coordinator of the physics program in the newly combined Department. **Eric Preston** has decided to leave the University so that he can join his wife in Omaha, Nebraska, where she is a student in the Creighton University School of Dentistry. Eric has taken a job with ITT Corporation Advanced Engineering & Sciences in Omaha. **Joe West** has been working with undergraduate physics students in the area of spectroscopy and will continue to do so this summer. Joe spent considerable time over the past few years working to establish 3+2 engineering agreements with several institutions. **Guo-ping Zhang** just learned that he has been awarded early tenure and promotion to associate professor of physics.

Physics: **Torsten Alvager**, as well as **Adron Barbee** and his wife Joan, are living in Terre Haute and enjoying retirement. **Walt Carnahan** and his wife Barbara are living in Grass Valley, California. **Phil Di Lavore** and his wife Evelyn live in Terre Haute where he has equipped his basement workshop with professional-quality wood-working tools, so he can use his talents to produce truly remarkable pieces of furniture. **Uwe Hansen** and his wife Louise are also still in Terre Haute. Uwe is as active as ever. He has just completed the translation of a text on acoustics and the performance of music which should be out sometime this summer. He also co-authored a chapter in a handbook of signal processing in acoustics which is now in press. This summer you will find him in Paris at an International Acoustics conference where he will chair a session and give an invited paper. He will also teach in the Department as an adjunct professor during the 2008-09 academic year. **John Swez** retired at the end of the fall 2007 semester, but he too will be teaching as an adjunct this coming year. **James Westgard** is currently living in Madison, Wisconsin.

Retired Faculty Briefs...

Chemistry: **Myong Ahn** and Mrs. Ahn are living in Midland Michigan. **Marlowe Owen** will soon be moving into a new condominium in Terre Haute. **D. J. Reuland** was back in the Department this spring, teaching some CHEM 105 lab sections. He has also been doing some traveling and recently returned from France. **Alan Siegel** has been enjoying the fact that he can play cards without having to stop to grade papers. He has also been spending some time traveling to see his family. **Pat Tatum** is still enjoying retirement and is doing as much traveling as ever. **W. A. Trinler** and his wife Jacquelyn recently welcomed a son-in-law into the family.

Staff Briefs...

Patti Archer and **Mitzi Nichols** are still located in the basement chemistry office and **Tammy Barnes** is located in the first-floor physics office. Between the three of them, they manage to keep the business affairs of the recently combined Department under control. **Michelle Baltz-Knorr** is still serving as the physics lab manager as well as teaching a few physics courses, and **Erik Ingebrigtsen** is still serving as the chemistry lab manager. **Bradley Scates** is carrying out organic and medicinal chemistry research as a postdoctoral fellow in the Fitch group. Brad will leave the Department shortly to look for a position in industry. **Bethany Lashbrook** is a research assistant from Marshall, Illinois, who is also working in the Fitch group.

In Memory...

We are sad to report the passing of two former faculty members.

Richard E. Winn,

Associate Professor Emeritus of Physics, passed away on October 20, 2007, at age 90. He was survived



by his wife, Gretchen (who has since passed away), one daughter, one son, six grandchildren, eleven great-grandchildren, and one great-great-grandson. He studied at ISU, Indiana University, and the University of Missouri before taking a faculty position at ISU in 1946. From then, until the mid-sixties, when Harold Hughes began to build physics at ISU, he was the anchor of the Department. He retired from ISU in 1982.

Lawrence E. Poorman,

Professor Emeritus of Physics, passed away on February 18, 2008. He was 81 and was an



army veteran of World War II. He is survived by his wife, Anita, two sons, and five grandchildren. He received a B.S. degree in Math/Physics from Ball State University, Masters Degrees from Indiana University and Purdue University, and an Ed.D. from Indiana University. His career in education spanned 41 years and ranged from elementary-level science to college-level physics. He began teaching at ISU in 1967 where he was a recipient of the Caleb Mills Distinguished Teacher Award. Professor Poorman is perhaps best remembered for his contributions to Physics Education. He was involved in the development of the Harvard Project Physics (hpp) materials which for many years found wide use in high

school physics classes as well as in general science curricula in universities. He retired from ISU in 1991.

Alumni Notes...

Shawn Mattingly (Chem, '04), of Indianapolis, is in his fourth year of medical school at Indiana University and will soon be an intern. He is trying to decide between family practice or law school to study pharmaceutical intellectual property.

Nilah Nicole Bonham (Chem, '01), of Terre Haute, is an optometrist in Brazil, Indiana. She has a two-year old son, James Ballard Bonham.

Judith Elizabeth Parks (Chem, '71), of Overland Park, Kansas, taught high school chemistry and calculus for 34 years. She is currently a district-level director of assessment.

Fall 2007, Spring 2008 Chemistry Graduates

The 11 graduating chemistry majors this academic year were: Brian Bark, Leslee Bryant, Rachael Chase, Eric Dillinger, Lindsey Edenburn, Brad Hirsch, Ying-Chau "Allen" Liu, Amanda Melberg, Erica Miller, Nick Theising, and Janell Toosley. We extend our congratulations to these graduates.

John McCarthy Outstanding Junior Award for Physics

Samantha Henry is this year's outstanding junior physics major and recipient of the John McCarthy Award for her excellent academic performance. Samantha is a pre-medical student and physics major. In addition to receiving this award, she was awarded a Physics Foundation Scholarship for the 2008-09 academic year.

P. D. Wilkinson Outstanding Senior Award



Rachael Chase was selected as this year's outstanding senior chemistry major and recipient of the P.D. Wilkinson Award.

Rachael, a Presidential Scholar and Hines Medal recipient, maintained a 4.0 GPA throughout her four years at ISU while being involved in many extracurricular activities. Beginning as a freshman, she worked on two research projects in the lab of Rick Fitch and presented her research results at numerous local, regional, and national meetings. Rachael served the Department as a Supplemental Instructor for the general and organic chemistry courses. She will begin medical school at Vanderbilt University School of Medicine in the fall.

Students Receive Stanley Scholarships

Twelve chemistry and physics majors were selected to receive the prestigious Donald and Mary Jo Stanley Scholarships for the 2008-09 academic year. The students are Stephanie Braun, Ryan Galloway, Mathew Hollinger, William Jackson, Mylaka Miller, Paige Miller, Elizabeth Neeley, Nicole Perigo, Tyler Richey, Michael Schulte, Malorie Stowe, and Mohammed Zaher. These scholarships were established at ISU by Mary Jo Stanley in 1989 in memory of her husband, Donald Stanley.

Attention alumni!

If you would like your information included in the next issue, please send it by email to Jennifer Inlow (inlow@carbon.indstate.edu) or complete the form on the insert and mail it to the Department.

Preston Leaving the Physics Faculty

Eric Preston, Assistant Professor of Physics, is leaving ISU to take a position with ITT Corporation Advanced Engineering &



Sciences in Omaha, Nebraska, where his wife, Nicole, is a student in the Creighton University School of Dentistry. Eric joined the faculty in 2003. He taught a number of majors and non-majors physics and astronomy courses for the Department and engaged several undergraduate physics majors in research. His interests include noise-induced dynamical transitions in driven threshold systems, EMP and radiation effects in electronics, and failure phenomena. We wish Eric and Nicole all the best in the future!

Physics Program Establishes 3+2 Engineering Dual Degree

ISU and the University of Evansville recently reached an agreement on the details of a Physics and Engineering Dual Degree program. Under this plan, students study physics, math, and technology at ISU for three years, and then spend two years at the University of Evansville completing courses in civil or mechanical engineering. A key element of this agreement is that students know ahead of time that their coursework transfers between both institutions and satisfies all requirements for graduation at both schools. The plan enables students to simultaneously earn a BS degree in physics from ISU and a BS degree in engineering from the University of Evansville.

John Swez Retires, But...

John Swez, Professor Emeritus of Physics, retired in December 2007 after 40 years of teaching in the Physics Department.



John joined the faculty at ISU in 1967 after completing a Ph.D in biophysics at the Pennsylvania State University. From 1972 to 1996 he served as director of the Radiation Laboratory. He was chairperson of the Physics Department from 1988 to 1994. John published over 50 papers and was awarded over \$150,000 in extramural funding over his career.

Physics alumni continue to ask about Prof. Swez years after they were his students in the classroom or laboratory. John was clearly a popular instructor and made many significant contributions to the physics program.

Although John officially retired in 2007, he will return to the classroom during the 2008-09 academic year as a part-time temporary replacement for the departing Eric Preston.

Chemistry and Physics Help Center Launched

The fall 2007 semester marked the opening of the Chemistry and Physics Help Center, located on the first floor of the Science Building. The center is open several hours each weekday and is staffed by chemistry and physics majors, chosen based on their high academic performance in chemistry and physics courses. The center is open to all ISU students who want help or tutoring for introductory-level chemistry or physics courses.

2007 Grants and Publications

Members of the Department published in the following chemistry and physics journals over the past year: *Analytical Chemistry* (S. Wolf); *Enzyme and Microbial Technology* (B. Flurkey, J. Inlow); *European Journal of Physics* (J. West); *International Journal of Modern Physics B* (G. Zhang); *Journal of Agricultural and Food Chemistry* (B. Flurkey, J. Inlow); *Journal of Applied Physics* (G. Zhang); *Journal of Chemical Physics* (E. Glendening, A. Halpern); *Journal of Physical Chemistry* (E. Glendening); and *Physical Review B* (G. Zhang).

Papers in the area of chemical education were published in the following journals: *Biochemistry and Molecular Biology Education* (J. Inlow); and *Journal of Chemical Education* (E. Glendening, A. Halpern, R. Kjonaas).

External grant funds were received during the past year by R. Kjonaas (Indiana Academy of Science), S. Wolf (National Science Foundation), and G. Zhang (Army Research Office).

The following faculty received internal grant funds from various ISU programs: R. Fitch, E. Glendening, J. Inlow, R. Kjonaas, B. Pestel, E. Seung, and S. Wolf.

ISU Chemistry on YouTube

The University filmed a commercial focused on experiential learning in our renovated organic lab. The video has been posted on YouTube (www.youtube.com). Search for "Chemistry at Indiana State". **Jennifer Inlow** is the faculty instructor appearing in the video, and **Charlie Cochran**, a senior chemistry major, is the student actor to her left.

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ISU Department of Chemistry and Physics Newsletter

We want to hear from you!

Future issues of the *Department of Chemistry and Physics Newsletter* will include the "Alumni Notes" section, featuring a summary of recent activities of ISU chemistry and physics alumni. If you'd like your information included in the next issue, please send it by email to Jennifer Inlow (inlow@carbon.indstate.edu).

New departmental web site coming soon...

The new combined Department of Chemistry and Physics will soon have a single departmental website. In the meantime, the websites for the former individual departments are still available at:
<http://www.indstate.edu/chem/> and
<http://physics.indstate.edu/>

Questions or comments?

Contact
Eric Glendening, chairperson, at:
glendening@indstate.edu or
812-237-2239.