

# CHEMISTRY UNDERGRADUATE NEWSLETTER

Published by the Chemistry Undergraduate Office

<http://www.chem.indiana.edu/academics/ugrad>

[chemound@indiana.edu](mailto:chemound@indiana.edu) 855-2700

**January 26th, 2007**

## **Please Send Feedback to Your Chemistry Class Representative**

Almost all chemistry courses now have a class representative (see below for a list of those that do not).

**Please email the class representative** for your chemistry course through the class “ombudsman” email account, which can be found on the homepage for the course at

<http://www.chem.indiana.edu/academics/ugrad/courses/>.

## **Class Representatives Still Needed for Some Classes**

The following chemistry courses still need a class rep: C102, C122, A314, C344, P364/P464, C437, and C485. You do not have to be a chemistry or biochemistry major to be a class rep for a chemistry class. If you are in one of these courses and would like to represent your chemistry class, please contact Alice Dobie-Galuska in the Chemistry Undergraduate Office, [chemound@indiana.edu](mailto:chemound@indiana.edu), 855-2700, or stop in Chemistry room C021. The first class rep meeting will most likely be held during the first week of February.

## **Horizons in Chemistry- New Seminar Series on Careers in Chemistry**

**Experienced Chemists and IU Chemistry Alumni**

**Speak about Chemical Careers in Industry and Government**

The Dept. of Chemistry is sponsoring a seminar series on chemical careers in industry and government. Most of the lectures will be given by IU Chemistry Alumni. Each seminar is on Tuesday and on the following Wednesday the speaker will lead a roundtable discussion and will be available for individual meetings. Contact Jeanette Silvers at [esilvers@indiana.edu](mailto:esilvers@indiana.edu) to sign up to attend a roundtable discussion or an individual meeting with a speaker. The following lectures are the first two in the series:

**Tues. Feb. 6th 5:00-6:30 PM, room C122-How Today’s Chemiscals Are Derived from Oil and Gas**  
**Bill Carroll, OXY chem**

**Tues. Feb. 20<sup>th</sup> 5:00-6:30 PM, room C122-Advances in Medical Diagnostics**  
**Fred Larimore, Cook Pharmaceutical**

## **Free Chemistry Tutoring in Chemistry room C046 Starts Today**

**General Chemistry tutoring (100-level courses):** Sunday – Wednesday 6:45-9:45 pm

**Organic tutoring:** Sunday and Tuesday nights only 6:45-9:45 pm.

## **Schedule Chemistry Advising Appointments Online**

Students who are majoring in Chemistry or Biochemistry can now schedule appointments with the chemistry advisor online at [http://www.chem.indiana.edu/academics/ugrad/advising\\_staff.asp](http://www.chem.indiana.edu/academics/ugrad/advising_staff.asp). If you

have trouble using this online scheduler or you are not a chemistry or biochemistry major, please call the Chemistry Undergraduate Office at 855-2700 or stop in the office (Chemistry room C021) and we will be happy to help you set up an appointment.

### **PRIVATE CHEMISTRY TUTORS:**

The Chemistry Undergraduate Office maintains a list of graduate students and advance undergraduate students who are qualified to tutor at <http://www.chem.indiana.edu/academics/ugrad/tutors.asp>. Students may contact these tutors to make arrangements for private tutoring. Payment and meeting times are negotiated between the student and the tutor (not the Dept. of Chemistry).

### **Math Learning Center and Academic Support Center**

Math Learning Center: 855-5377 <http://math.indiana.edu/programs/undergrad/mlc>

Help is also available for all mathematics courses, 7:00 pm - 11:00 pm, Sunday through Thursday, in the Academic Support Centers in Teter, Briscoe, and Forest Quads.

Academic Support Centers: 855-7668 <http://indiana.edu/~acadsupp/info2.shtml>

### **Undergraduate Research Conference**

Butler University invites undergraduates involved in research projects to present their work at the 19<sup>th</sup> annual Undergraduate Research Conference. The Conference is held on Friday, April 13<sup>th</sup>, 2007, and deadline submission is Friday, Feb. 23<sup>rd</sup>, 2007. For more information, please visit their website at: <http://www.butler.edu/urc>.

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## **Scholarship Opportunities**

### **School of Education Paul E Klinge Scholarship**

There is a scholarship that is being offered through the School of Education for **COAS Science majors**. In the past, the award committee in Education has awarded this scholarship to students in the 3.0-4.0 GPA range. Applicants must be a junior or senior in the fall 2007, so sophomores may apply. Students may access the application and find other information about the scholarship at: <http://profile.educ.indiana.edu/Default.aspx?tabid=2398> and scroll down to find the information for the Paul E. Klinge Scholarship. The deadline for submission of all materials is: **February 8<sup>th</sup>, 2007**. That is an absolute deadline. If you have anymore questions about this award, please contact Dorothy Slota at: [dslota@indiana.edu](mailto:dslota@indiana.edu) or at: 812-856-8528.

### **American Chemical Society (ACS) Scholars Program**

The ACS Program is accepting applications for the 2007-2008 academic year. The program is currently in its twelfth year of funding authorization by the Society's Board Directors. **The scholarship is designed to encourage African-American, Hispanic, and Native American students to pursue undergraduate college degrees in the chemical sciences.** The goal of the scholarship program is to promote diversity in the chemical sciences by aiding in building an awareness of college students in these minority groups of the value and rewards associated with careers in science and to assist these students in acquiring skills and credentials needed for success in these areas. The ACS Scholars Program will award approximately 100 scholarships to undergraduate students, and also high school students who will be entering college are also eligible. The scholarship is valued up to \$2,500 per academic year for freshman, and up to \$3,000 per academic year for sophomores, and up to \$5,000 per

academic year for juniors and seniors. The web site: [www.chemistry.org/scholars](http://www.chemistry.org/scholars) can also be accessed for an online application or additional information about the program. **Deadline is March 1, 2007.**

### **2007 GSK Undergraduate Summer Fellowships**

The GlaxoSmithKline Undergraduate Summer Research Fellowship Award **funds undergraduate research in the areas of synthetic organic and/or analytical chemistry.** The program is meant to encourage deserving undergraduate students to consider chemistry as a career. The fund is intended for the students to carry out a minimum 10 weeks of fulltime summer research in the institution that they currently attend under the guidance of their research advisor. This year, six undergraduate students will be awarded the fellowships. Each award carries a stipend of \$4,000 for the summer and a laboratory supply allowance of \$1,000, for a total of \$5,000. If you wish to be an applicant, you must submit a recent transcript, a letter of recommendation, and a short (1-2 page) research proposal written in collaboration with the research advisor. In addition, the awardees are expected to submit a synopsis of their research results at the end of their summer tenure. The deadline for the application has been extended to **February 16th, 2007**. Completed packages need to be sent to the following address:

**Paul R. Sebahar, Ph.D.**

**GlaxoSmithKline R&D**

**Five Moore Drive 3.4185**

**Research Triangle Park, NC 27709-3398**

### **Edward L. Hutton International Experiences Program Grant**

There is a scholarship opportunity that is available for undergraduate students for both the upcoming summer and fall 2007 semesters. Any undergraduate applicant that meets the criteria, whether they are Hutton honors or not, should apply for this opportunity. The criteria are: a cumulative GPA of 3.3 or higher, or a major GPA of 3.7 or higher, and a well-planned and faculty endorsed reason for going abroad. The Hutton International Experiences Program (IEP) awards grants of up to \$2,000 to students traveling abroad. The grant money can be used for various experiences, such as: study, research or creative activities, internships, teaching, or service. For more information, please go to: [www.indiana.edu/~iubhonor/hds/overseas.php](http://www.indiana.edu/~iubhonor/hds/overseas.php).

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## **Planning to Attend Graduate School?**

### **Searching for a Graduate Program: Some Resources**

- US NEWS and World Report's "Best Graduate Schools": The Undergraduate Office has the latest edition of this report available in the outer office.
- Attend the seminars offered through the Dept. of Chemistry to hear faculty from other schools speak. See <http://www.chem.indiana.edu/deptnews/twic.asp> for the seminar schedule.
- Online search for graduate programs: <http://www.petersons.com>
- Talk to your professors and faculty who are doing research in the area(s) of study in which you are interested. See <http://miles.ucs.indiana.edu/~chemiub/> for a list of chemistry faculty searchable by discipline.
- Read about graduate research being done at other schools at Directory of Graduate Research (DGR, the most comprehensive source of information on chemical research and researchers at universities in the U.S. and Canada. Find the link to the DGR web on the [Chemistry Library website](#).

## **Take the GRE: Graduate Record Exam**

If you will be applying to graduate schools this fall and spring, you should take the GRE general test soon. Applications to some graduate schools can be due as early as November or December. The general test can be taken almost anytime on computer at IUB's Evaluative Services and Testing Office in Franklin Hall room 014. To schedule to take the exam, stop in their office, or call 856-0684. Their website [http://www.indiana.edu/~best/best\\_cbt.shtml](http://www.indiana.edu/~best/best_cbt.shtml) has a link to the GRE site where you can find information about the GRE chemistry subject test, which is required by some graduate programs.

## **Northwestern University Neurobiology and Physiology Master's Program**

Northwestern University is currently offering a Master's program that has curriculum that is aimed at preparing students for careers in such fields as medicine, research, and education, among others. The program is unique in that students can earn a graduate degree in only one year of intensive study. The master's program in neurobiology and physiology has two components: coursework and research. Classes consist of both master's and PhD candidates and students must complete a total of nine credits, four of which are fulfilled through a student's independent research project. For more detailed information on <http://www.northwestern.edu/neurobiology/ms> or contact the department office directly. **The application deadline for the 2007-2008 academic year is March 31<sup>st</sup>, 2007.**

## **The University of Toledo**

### **Graduate Programs in Chemistry OPEN HOUSE**

The University of Toledo will be hosting an open house on Saturday, Feb. 24<sup>th</sup>, 2007 from 10 a.m.-4 p.m. in Wolfe Hall Room 1205. The Open House will include an overview of master's and doctoral programs, tours of their outstanding research facilities and the beautiful UT Main Campus, meetings with faculty and staff members, a poster session showcasing recent research results, and complimentary pizza and soft drinks. To RSVP or for more information, contact the UT Department of Chemistry at 419-530-1532 or 419-530-7902 or via email at [mark.mason5@utoledo.edu](mailto:mark.mason5@utoledo.edu). Also, more information can be obtained at: [www.chem.utoledo.edu](http://www.chem.utoledo.edu).

(There are also directions for the campus and directions to the campus in the IU Chemistry UGO C021)

## **Montana State University-Master of Fine Arts Science and Natural History Filmmaking**

The Department of Media and Theatre Arts is offering a unique graduate program for people with degrees in science, engineering, or technology who want to become professional filmmakers. For more information, please visit the website at: <http://naturefilm.montana.edu> or contact the Program Manager at 406-994-5884.

## **University of Cincinnati-College of Medicine**

The University of Cincinnati is actively seeking outstanding science students to their Graduate training program in Biomedical Sciences. The College of Medicine offers extraordinary opportunities in research training for highly motivated students interested in earning a PhD or MD/PhD in biomedical sciences. Graduate training at The University of Cincinnati College of Medicine is ranked in the top 25% in the U.S. Many of our departments rank in the top ten across the country. Also, each PhD student receives a scholarship that pays for 100% of tuition and fees, paid health insurance, plus a generous annual stipend that matches or exceeds those at other nationally ranked institutions. For more information, please visit the departmental website, [www.med.uc.edu/GraEd](http://www.med.uc.edu/GraEd).

## **Doctoral Program in Computational Biology-New York University**

Computational Biology is rapidly evolving in order to address the complex challenges of the 21<sup>st</sup> century in understanding the behavior of biological systems and human diseases. A student's program of study in the computational biology program includes: a dual faculty mentorship in the life and mathematical sciences, courses in the student's home department and in scientific computing, computational biology, and research ethics, interdisciplinary interactions including research collaborations and summer internships, and career guidance/mentoring activities. Computational biologists are now widely sought by industry, research centers, and universities. For more information, please refer to:

[www.nyu.edu/fas/programs/compbio](http://www.nyu.edu/fas/programs/compbio).

## **Joint Program in Computational Biology-Pittsburgh and Carnegie Mellon University**

Pittsburgh and Carnegie Mellon University are jointly offering a program in Computational Biology. The goal of this unique doctoral program is to provide intensive interdisciplinary education to enable outstanding students to become leaders in identifying and solving tomorrow's biological problems using computational methods and fundamental principles of life and physical sciences. The program will provide students with cross-disciplinary training in established as well as newly emerging fields of computational biology.

Students will have the opportunity to participate in research studies in one of five areas of specialization: Computational Genomics, Computational Structural Biology, Cellular and Systems Modeling, Biome Informatics, and Computational Neurobiology.

You can access the online application at: [www.compbio.cmu.edu](http://www.compbio.cmu.edu).

## **Carnegie Mellon Research and Graduate Studies in Chemistry**

Carnegie Mellon's department of Chemistry has been growing considerably in the last few years by expanding their graduate program and adding new faculty members in atmospheric, bioorganic, physical, polymer, and theoretical/computational chemistry. Their highly interdisciplinary, collaborative programs are aimed at preparing their graduate students to enter rapidly changing job markets. The efforts in this direction are aided by numerous interdisciplinary grants and graduate fellowships such as Bayer Corporation graduate fellowships, the latter aimed in part to provide additional opportunities for students from underrepresented groups. Carnegie Mellon provides a highly supportive atmosphere for graduate education through small research groups and many opportunities for interdisciplinary and collaborative projects. For more information, please refer to the following site:

<http://www.chem.cmu.edu/grad> .

## **Vanderbilt School of Medicine-Center in Molecular Toxicology**

If you are looking into graduate school, you should look into the Center of Molecular Toxicology at Vanderbilt University. Their program has an outstanding graduate program and the enhancement of facilities and personnel over the past few years has developed the program into being one of the best in the nation, offering students excellent academic and research experience in toxicology. The students in this program participate through the departments of Biochemistry, Biological Sciences, Chemistry, Medicine, Pathology, and Pharmacology. To obtain more information, please visit their website:

<http://www.toxicology.mc.vanderbilt.edu> .

## **IBMG program-IU School of Medicine**

IU School of Medicine has a new program called the BioMedical Gateway (IBMG) program. The IBMG program provides a shared first year experience for all School of Medicine biomedical science

predoctoral (Ph.D. program) students. Outstanding students are recruited locally, nationally, and internationally for the IBMG Program. A student's first year of study in the IBMG Program is built around a core curriculum leading to a choice of modular electives that match their interest, laboratory research rotations, and strong support and mentoring. Ultimately, this year of research exploration and laboratory rotations culminates in the student's choice to join one of hundreds of research labs affiliated with one of the ten biomedical science Ph.D. degree programs. The programs are the following: Anatomy and Cell Biology, Biochemistry and Molecular Biology, Cellular and Integrative Physiology, Medical and Molecular Genetics, Medical Biophysics and Biomolecular Imaging, Medical Neuroscience, Microbiology and Immunology, Pathology and Laboratory Medicine, Pharmacology, and Toxicology. Program descriptions and application information can also be accessed via: <http://www.iu.edu/~gradschl/>

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## **Summer Research Programs**

### **The University of Georgia 2007 Summer Undergraduate Research Program in Computational Quantum Chemistry**

Georgia University is offering a Summer Research Program at the Center for Computational Chemistry. The Program is designed to provide outstanding undergraduate chemistry, physics, and mathematics majors an opportunity to explore quantum chemistry at a world-class research institute. The program includes, the completion of an independent research project under the guidance of a senior group member, an abundant access to the Center's extensive computational resources, lectures in molecular quantum mechanics, and a monthly stipend of \$2000, as well as a travel stipend of \$400. For additional information, please visit: <http://www.ccc.uga.edu/summer> or send an email to: [Summer@ccc.uga.edu](mailto:Summer@ccc.uga.edu).

### **"Hooked on Photonics (HoP)" Summer Research Program**

The Summer Research Program is sponsored by the NSF's Center on Materials and Devices for Information Technology Research and it is open to undergraduates of all levels with interests in chemistry, physics, material science, engineering or optics. The HoP Program is designed to provide research experience for undergraduate students who have a desire to pursue a graduate education in engineering and the sciences. Selected students will participate in ten weeks of research at the Georgia Institute of Technology (Atlanta), the University of Arizona (Tucson), or the University of Washington (Seattle). Besides completing the ten-week research project under the guidance of a CMDITR faculty member, the students will also work closely with mentors, attend workshops, discussion groups and laboratory demonstrations that expose them to a broad range of research, graduate school and career opportunities. Housing and transportation will be provided along with a stipend from \$3500 to \$4000. The application deadline is **February 15<sup>th</sup>, 2007**. For more information and to apply go to: [www.stc-mditr.org/REU](http://www.stc-mditr.org/REU) and click on the Apply Online link at the top right.

### **University of Kansas Summer Undergraduate Research Program**

The KU Department of Pharmaceutical Chemistry is offering a summer undergraduate research program for summer 2007. This program can be a valuable experience for undergraduate students who are considering a research career in chemical, biological, or pharmaceutical sciences. Students who apply for the program should be preferably juniors, although they will be considering applications from outstanding sophomores if they will have completed organic chemistry prior to the start of the summer research program. Competitive stipends will be offered to cover cost of living expenses in Lawrence.

For more information on the program, please refer to the following website:

<http://www.ku.edu/~selfpro>.

### **University of Alabama 2007 Summer Undergraduate Research Participation (SURP) Program**

The Undergraduate Research Participation Program is supported by the National Science Foundation for students (preferably juniors) who plan to attend Graduate School in chemistry or a related field. Each student who is selected will receive a \$4,000 stipend plus on-campus housing in furnished apartments during the 10 week program (June 3<sup>rd</sup>-August 11<sup>th</sup>, 2007). Applications can be found in the IU Chemistry UGO and the deadline is **February 28<sup>th</sup>, 2007**. Information about the program can be found at the following link: <http://www.bama.ua.edu/~chem/programs/summerprogs/suurp.html>.

### **Indiana School of Medicine-Evansville Summer Research Opportunity**

The IU School of Medicine-Evansville is offering a limited number of summer research opportunities in the basic medicinal sciences. They are interested in attracting students with a keen interest in exploring one of the basic sciences or academic medicine as a career choice, and who have completed at least two semesters of upper level science courses. The summer research program is a 10 week (June 4<sup>th</sup> to August 10<sup>th</sup>, 2007), intense and hands-on fellowship, that is carried out under the auspices of one of their faculty members and pays a stipend of \$2,500 for the summer. For more information about their center and the summer research program, interested students may go to the following website:

<http://shaw.medlib.iupui.edu/ecme/ecmepage.htm>. **The deadline for receipt of all application materials is February 15<sup>th</sup>, 2007 and participants will be notified of their selection by the end of March.** (There are applications also located in the IU Chemistry UGO C021).

### **Undergraduate REU and Other Summer Research Opportunities**

Integrative Graduate Education and Research Traineeship (IGERT) currently offers an undergraduate summer research program (website: <http://www.igert.org/reus.asp> ). If you are a student looking for a paid research internship in the coming summer, you should look into IGERT's program. If you have any further questions, please contact Sandra Thomas, who is the Executive Director, and can be reached at: [sthomas@umich.edu](mailto:sthomas@umich.edu); or [sthomas@igert.org](mailto:sthomas@igert.org).

### **Summer Research-Liquid Crystals-Synthetic and Natural Systems**

If you are looking for an exciting Summer Research program, then you might want to look into Kent State University's summer program. The program runs June 3<sup>rd</sup>-August 10<sup>th</sup>, 2007 and the program deals with research in **Optoelectronics/LC Displays, Liquid Crystal Synthesis, Biological Membranes, Electrochemistry, Bioseparations, and Nanomaterials**. With this great program, comes great research experience, State-of-the-Art Facilities, \$3,500 stipend, free room and board, travel assistance, and numerous social events to attend. The program is sponsored by the Chemistry Division, and **the review of applications begins March 1<sup>st</sup>, 2007**. For more information, please visit: [www.kent.edu/chemistry](http://www.kent.edu/chemistry) or email [agericke@kent.edu](mailto:agericke@kent.edu).

### **ACS Nuclear and Radiochemistry Summer School Program**

The ACS is currently seeking curious and highly motivated students with strong science backgrounds for the 2007 Nuclear Radiochemistry Summer School program. If students are selected, they will receive an all-expense paid opportunity to complete a 6 week summer course in Nuclear and Radiochemistry in either California or New York. They will also earn hours (tuition paid) of undergraduate chemistry credit through either San Jose University or SUNY-Stoney Brook. **The deadline for applications is February 1<sup>st</sup>, 2007**. For more information on the application procedure,

please visit: <http://www.cofc.edu/~nuclear/nukess.html> or at:  
<http://www.msu.edu/~mantica/NuclearSummerSchoolFlyer2007.pdf>

### **Stony Brook State University of New York**

Stony Brook State University is offering a summer research opportunity for **undergraduates majoring in the Physical and Environmental Sciences and Mathematics**. The University is currently **accepting applications from students for the Center for Environmental Molecular Science's Summer Research program, and also the Mineral Physics Institute's Summer Scholars Program**. Students who are selected will receive a \$3,750 stipend, a travel allowance of up to \$600, and housing on the University campus. The students will spend ten weeks working with the faculty members and will experience most of the fundamental elements of academic research. For more information, please refer to the following websites: <http://www.mpi.stonybrook.edu/SummerScholars/>,  
<http://www.cems.stonybrook.edu/Education&Outreach/>

### **Dartmouth College Nanomaterials and Nanotechnology Undergraduate Summer Program**

The 2007 REU program in **Nanomaterials and Nanotechnology** at Dartmouth College is looking for undergraduates for their summer program. The program is funded by the NSF Research Experience for Undergraduates program and the Department of Defense ASSURE program to support twelve physics, engineering, and chemistry students to participate in current research at the Center for Nanomaterials Research at Dartmouth. In the program, undergrads will work for nine weeks with faculty in state-of-the-art facilities on independent research projects in nanomaterials and nanotechnology. Participants receive a stipend of \$3,000 and on-campus housing is provided. In addition, participants receive a \$1,000 meal allowance and are reimbursed up to \$700 for travel from their home institution to attend the program. At the end of the program, students will present their research with a public poster. For additional information and/or application forms, please visit:  
<http://engineering.dartmouth.edu/nanomaterials/reu.htm>.

### **University of Minnesota Undergraduate Internship Program in Scientific Computing and Graphics Summer 2007**

The Supercomputing Institute for Digital Simulation and Advanced Computation is pleased to announce an Undergraduate Internship Program for the Summer of 2007 for undergraduate students. **Projects are available in the following areas: Astronomy, Biochemistry, Bioinformatics, Biomedical Engineering, Biophysics, Chemical Engineering, Chemistry, Civil Engineering, Computer Science, Computer Engineering, Geology and Geophysics, Materials Science, Mathematics, Mechanical Engineering, Medicinal Chemistry, Molecular Biology, Pharmaceuticals, Physics, Planetary Science**. The focus of the program is the application of computational approaches and visualization methods to supercomputing research. This includes digital simulation and advanced computation and all aspects of high-performance network communications. This program provides an opportunity for a challenging and enriching educational experience for undergraduate students interested in pursuing graduate or professional education. The program runs June 4<sup>th</sup>-August 10<sup>th</sup>, 2007 and there is a \$4,800 stipend. **The deadline for submitting an application is: Feb. 28, 2007.** Complete information is located on their website: [www.msi.umn.edu/general/Programs/uip/](http://www.msi.umn.edu/general/Programs/uip/).

### **REU Chemistry Summer Program-Stony Brook University**

Stony Brook University is hosting a summer program from June 4<sup>th</sup>-August 10<sup>th</sup>, 2007. The University **invites undergraduates majoring in Chemistry (or a related chemical science field)** to apply to their

2007 REU Chemistry Summer Research Program. The program is sponsored by the National Science Foundation, and the REU program in Chemistry provides students with an extensive research experience in the laboratories of a leading research group. Stony Brook's Chemistry Department is one of the most distinguished in the country and houses a broad range of research in major areas of molecular science. Participants will receive a \$3,300 stipend, lodging on-campus (for students who do not live locally) and an allowance for food and round-trip transportation to Stony Brook. Applicants must be a U.S. citizen or a permanent resident. For more information, please refer to the REU Chemistry program at Stony Brook, see: <http://www.sunysb.edu/ureca/chemistryreu.htm>.

## **University of Kentucky Undergraduate Research Experience in Functional Materials**

Students who are interested in research in **Chemistry, Materials and Polymers, or Chemical Engineering** are invited to apply to the UK Undergraduate Research experience. It is a summer program that will run from May 30<sup>th</sup> to July 27<sup>th</sup>, 2007. It will provide a \$3,440 stipend (\$400 per week), plus campus housing, and allowable relocation expenses. In addition, funds are available for a trip to a scientific meeting for each participant. The requirements are that students should be a U.S. citizen or a permanent resident. Applicants should have a GPA of 3.0 or better, and should have completed their sophomore or junior year by the beginning of the summer program. The application form and further information can be downloaded from <http://www.research.uky.edu/Membrane/REU/index.html> . Applications can also be obtained by contacting Ms. Mollie Fraim at (859)257-5876; email: [mfrai2@uky.edu](mailto:mfrai2@uky.edu). **The deadline for applications is: February 23<sup>rd</sup>, 2007.**

## **Undergraduate research program at San Jose State University**

The IBM Almaden Research Center and San Jose State University are hosting a unique academic/industrial summer undergraduate research program. This program, a National Science Foundation/Department of Defense Research Experience for Undergraduates (REU) site, is in the area of **chemistry, engineering, and materials science of information technology related materials**. Top candidates from related fields of science and engineering are encouraged to apply and applications from women and members of groups underrepresented in science and technology are encouraged to apply. Program information and links to the projects and application forms can be found on the web at <http://www.almaden.ibm.com/st/info/studentopps/nsfstudent/nsfa2007.htm>

## **Summer Undergraduate Research Internship program**

**The Center for Neuroscience at the West Virginia University School of Medicine** is hosting a Summer Undergrad. Research internship program for summer 2007. If you are a student who has an interest in gaining research experience through participation, then this program with an energetic scientific environment might be of interest to you. The Center for Neuroscience is an NIH-supported interdisciplinary group of faculty, post-doctoral fellows, and students **investigating sensory, cognitive, and behavioral neuroscience, neural injury and neuron-degeneration, neuron-psychiatric diseases, and homeostasis**. Currently they are anticipating a selection of up to ten students for a faculty-supervised summer research positions and are offering a \$4,000 stipend for a ten-week program. The program extends from June 4 to August 9, 2007.

Students that are interested in applying may consult the Center's website for on-line application materials, a description of the program, and information concerning the research projects offered within the Center. Interns for summer 2007 are expected to be announced by mid February. For information, please go to: [www.hsc.wvu.edu/wvucn/SURI2007.php](http://www.hsc.wvu.edu/wvucn/SURI2007.php).

## **Cold Spring Harbor Laboratory Summer Undergraduate Research Program-Watson School of Biological Sciences**

Cold Spring Harbor's program provides a unique opportunity for young people from around the world to learn first-hand about **genetics, cell biology, neurobiology, molecular biology, and bioinformatics** by working and living in a science community that is renowned for its research and educational programs. The fundamental objective of the URP program is to give students an opportunity to conduct first-rate research. Participants learn about scientific reasoning, laboratory methods, theoretical principles, and scientific communication. It is a 10-week program where students work with lab staff on independent research projects in the mentor's field of expertise, attend a series of seminars, and special events designed specifically for them. Students receive a \$3,800 stipend for their participation in the program. Any matriculated college sophomore or junior with a strong academic background may apply. For further information, please refer to: [www.cshl.edu/URP](http://www.cshl.edu/URP) or email at: [urpadmin@cschl.edu](mailto:urpadmin@cschl.edu).

## **Summer Research Opportunities: University of Michigan**

If you are looking for an opportunity in research for Summer 2007, then the University of Michigan might have a program that is right for you. If you might be interested in something like this, please refer to the website: [www.med.umich.edu/pibs](http://www.med.umich.edu/pibs) or contact the Program in Biomedical Science directly at: [pibs@umich.edu](mailto:pibs@umich.edu) or 877-294-0120.

## **Summer Research Program in Molecular and Cellular Biosciences**

**Undergraduate Science and Math majors** are invited to apply for a research program held each summer at the Wadsworth Center in Albany New York, at the New York State Department of Health. Students that are selected into this program will do basic research for 10 weeks at the Wadsworth Center, and also in addition to this, students will also participate in workshops on research topics of interest, ethics, and graduate school/career options. The program provides a stipend of \$3,400 and full support for travel, housing, and food allowance. **Applicants need to be majoring in Biology, Chemistry, Physics, Mathematics, or Computer Science who will complete their second or third year of study next spring and who are interested in attending graduate school in the biological sciences, with the goal of pursuing a research career.** If you are interested, please submit an on-line application at: [www.wadsworth.org/educate/molcel.htm](http://www.wadsworth.org/educate/molcel.htm). Also, a resume, official copies of college transcripts, letters of recommendation from two faculty members, and a one-page statement describing why the student wants to participate in this program and their field of interest should be submitted directly to the following address:

Department of Biomedical Sciences  
Wadsworth Center, C-236  
Empire State Plaza, Box 509  
Albany, New York 12201-0509

Also, for further questions please email: [reu@wadsworth.org](mailto:reu@wadsworth.org) or call (518)473-7553.

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## **Career Development and Job Opportunities**

### **Job Opening: Laboratory Technician at Baxter Pharmaceutical Lab**

**Job Title:** Laboratory Technician

**Job Location:** Pharmaceutical Development Laboratory

**Work Hours:** 2-4 hours a day, 5 days a week; flexible shift (7 A.M.-5 P.M.)

**Supervisor:** Wendy Saffell-Clemmer/Elizabeth Oslos

**Hourly Pay:** \$10-\$12

**Job Description:** -Washing/putting away lab glassware

- Receiving ordered chemicals and maintaining the chemical inventory
- Ordering common laboratory supplies as needed
- Ensuring that automatic pipettes are functioning properly through routine checks
- General Laboratory housekeeping
- Other laboratory duties as required

**Job Requirements:** A high school diploma or equivalent is required. Basic computer and math skills are required, and proficiency in Microsoft Word and Excel are referred. The applicant must have good organizational skills and be detail oriented. The applicant must be at least 18 years old. Employment is subject to a drug test.

### **Employment Opportunity for Students with IU Orientation**

The students who work with Orientation at Indiana University have a unique opportunity to affect new students and their parents. Whether they are working behind the scenes ensuring students get the information they need to reserve a space at New Student Orientation, or are working directly with students and parents during an orientation program, they are some of the first contacts students and parents have. Their efforts are critical to Indiana University. Working with Orientation Programs can be very rewarding. There are several types of positions for students with the Orientation Programs office, from program assistants to student coordinators. For more information, please go to the following website: <http://www.indiana.edu/~orient/staff/student/index.html>

### **Spring 2007 Networking Nights Series**

The spring 2007 Networking Nights series is going to begin January 30<sup>th</sup> and run through up until March 27<sup>th</sup> 2007. The series events will be held in the Devault Alumni Center from 6:30-8:30 p.m. There will be a variety of events, including all of the following:

Hospitality, Event Planning & Tourism: January 30<sup>th</sup>

Sales and Management: February 6<sup>th</sup>

Marketing, Advertising, and Public Relations: February 13<sup>th</sup>

Arts & Entertainment: February 20<sup>th</sup>

Global Careers: February 27<sup>th</sup>

Life Sciences: March 6<sup>th</sup>

Writing, Editing & Publishing: March 27<sup>th</sup>

Check out the website: [www.IUCareers.com](http://www.IUCareers.com) for full details and registration information.

### **Nonprofit CAREER FAIR**

On February 1<sup>st</sup>, 2007 there will be a nonprofit Career Fair from 11-3p.m. at the Indiana Convention Center (1000 South Capitol Ave, Indianapolis). There are over 60 different employers expected to be present, including local and national nonprofits. You can see a full list of organizations at:

[www.idealists.org](http://www.idealists.org). Students can register at [www.idealists.org](http://www.idealists.org) and the fair is FREE to students and community members. For more information please contact: [abram@idealists.org](mailto:abram@idealists.org).

### **IU Health Professions and Prelaw Center (HPPLC) Information**

**Did you know about the IU Health Professions and Prelaw Center's (HPPLC's) Email Lists?**

Interested in applying to medical school, dental school, or other health profession programs? If yes, you should sign up for the IU Health Professions and Prelaw Center's (HPPLC's) email list in your area of interest. The list will inform you of upcoming events, programs, medical school and dental school

admission workshops, visits to IU by admission officials from around the country, and provide timely information about what you should be doing for the complex admissions process. You will only receive emails pertinent to your specific area(s) of interest and to your specific year in school. If you are interested in the possibility of law school please feel free to sign up for the prelaw list as well.

**Please go to [www.hpplc.indiana.edu](http://www.hpplc.indiana.edu) and click on the “Mail Lists” icon.** After you log on, fill in your name, class, and area of interest. That’s it! If you have any questions, please call HPPLC at 812-855-1873 or email [hpplc@indiana.edu](mailto:hpplc@indiana.edu).

## **Workforce Recruitment Program for College Students with Disabilities**

The **Workforce Recruitment Program for College Students with Disabilities** is coming to the IU campus on January 22! **This program is an excellent way for current students and recent graduates to find internships and full-time jobs all over the United States.** WRP recruiters are scheduled to visit IU this year – but only if we have enough students participating in the program. Read below for details on this amazing program!

### **What is the Workforce Recruitment Program?**

The Workforce Recruitment Program for College Students with Disabilities (WRP) is a resource to connect public and private sector employers nationwide with highly motivated postsecondary students and recent graduates with disabilities who are eager to prove their abilities in the workforce. Employers seek to fill both temporary and permanent positions in a variety of fields.

### **How Does the Program Work?**

**The WRP operates on the following timeline:**

- **On January 22, recruitment visits are conducted which include 30-minute personal interviews with participating students.**
- **By late March, a database composed of student information gathered during recruitment visits is made available to employers in the public and private sectors.**
- **Once the data base is released, interested employers make direct contact with students about temporary and permanent job offers. The data base is active for one year.**

**Sign up immediately to get an interview slot on January 22!** Students will be required to attend a preparatory session on interviewing skills, resume writing, and other helpful topics.

**To register, contact Laura Barnes in the Career Development Center at [laubarne@indiana.edu](mailto:laubarne@indiana.edu), or at 812-855-5234.**

The WRP is co-sponsored by the Office of Disability Employment Policy and the Department of Defense, with support from other federal agencies.

## **AfterCollege job resource help for students**

The AfterCollege Job Resource Center for the Chemistry Department offers a career resource center that is complete with resumes, interview and salary guides that include sample resumes, interview questions and salary worksheets. They also will inform you about new entry-level, internships, and part-time positions available specifically for those with a chemistry background with employers like Aerospace Corporation, Disney, Bayer, Eli Lilly, Freescale, Genentech, Sun Microsystems, Informatica, Baker Hughes, and many more. Visit: <http://www.aftercollege.com/groups/ccenter.asp?id=609907652&fct=2>, to apply for positions that you are interested in.

## **2007 Society for In Vitro Biology Meeting**

**When:** June 9-13<sup>th</sup>, 2007

**Where:** Indianapolis, IN

The Society for In Vitro Biology is committed to the future endeavors of science and encourages the continued growth of scientists and their students. At the 2007 meeting there will be a Plenary Symposia

and a General Symposia that will range in informational topics. To register and view the most up-to-date version of the program for the meeting, please visit the Society's website at: [www.sivb.org/meetings.asp](http://www.sivb.org/meetings.asp)

**The meeting deadline dates are:**

**Early Bird registration:** January 15<sup>th</sup>, 2007

**Abstract submission:** January 15<sup>th</sup>, 2007

**Late Submission and Abstracts:** February 20<sup>th</sup>, 2007

**Hotel Registration:** May 1<sup>st</sup>, 2007

\*There will also be free student registration and award opportunities for the students that attend.

**Credential files for students in the College of Arts and Sciences**

There have been numerous inquiries about storing letters of recommendation for students in a credentials file which they may later use after graduation for grad school or job applications, but the Arts and Sciences Career Services do not provide this such service. But, students in the College of Arts and Sciences wishing to have such a file can go to the Career Services office in the School of Education to establish one.

Their address is:

**Education Career Services Office**

**School of Education**

**W.W. Wright Education Building, Room 1000**

**201 N. Rose Avenue**

**Bloomington, IN 47405**

(812) 856-8506

[carsrv@indiana.edu](mailto:carsrv@indiana.edu)

[www.education.indiana.edu/~careers](http://www.education.indiana.edu/~careers)

If you are interested in opening a credential file, you may print off forms at:

<http://education.indiana.edu/~careers/coas.html> or pick up the forms at the Education Career Services Office. Completed forms must be submitted in person to the Education Career Services Office.

**Liberal Arts and Management Program (LAMP)**

LAMP is an honors-level interdisciplinary certificate offered by the College of Arts and Sciences in cooperation with the Kelley School of Business. LAMP combines any College of Arts and Sciences major with specialized training in business and management to prepare strong students with wide interests and leadership potential for careers in business and other professions. To learn more and to apply go to: [www.iub.edu/~lamp](http://www.iub.edu/~lamp). If you would like to meet with LAMP's Academic Advisor, call 856.4966 to schedule an appointment.

**Access job and internship postings and post your resume on line for employers to view for FREE!**

IU-Bloomington students at all degree levels can now register with [www.IUcareers.com](http://www.IUcareers.com) at no cost.

Career counseling is also free at the Career Development Center/Arts & Sciences Career Services, 625 N. Jordan, M-F, 8 a.m. - 5 p.m.

**A Career Tip for All IU Students:** Join the **Student Alumni Association** now and get special access to the IU alumni online directory where you can search for IU Alumni who are in the career field that you are pursuing...a great way to make some contacts and start building a network!

You might meet someone who could help you find an internship or even a job! For more information and to sign up, go to [www.indiana.edu/~saa](http://www.indiana.edu/~saa).

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## **Volunteer Opportunities**

### **THE TIMMY FOUNDATION NEEDS YOU!!!!**

If you are interested in helping people, exploring the issues that relate to poverty, education and healthcare both here and abroad, discussing these problems with your peers, and having lots of fun while meeting lots of really cool altruistic people, then come to our meeting!

We are a not-for-profit aid organization focusing on healthcare, education, and volunteerism both in the United States and abroad. We would love for anyone and everyone to join us this semester. We have planned some great activities, including community volunteering, a blood drive, and maybe even a guest speaker. Give us a try! What have you got to lose? Just drop us an e-mail at [timmyfc@indiana.edu](mailto:timmyfc@indiana.edu)

### **CKI - Live to Serve, Love to Serve!**

Interested in service and networking with other people on campus and in the community? CKI - Circle K International, the largest and best international collegiate service organization - is the place for you! This is your way of enhancing your experience in college, giving back to the community, making new friends, and engaging in an organization that provides leadership training, socials, retreats, scholarships, jobs, and more across the world. We meet weekly on Tuesday evenings at 8pm in BUS 423. Get involved!

Find more information by contacting [circlek@indiana.edu](mailto:circlek@indiana.edu).

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This newsletter is prepared by the Chemistry Undergraduate Office to provide information that is important and relevant to Chemistry students. If you would like to submit an announcement for future newsletters, please contact the office at [chemound@indiana.edu](mailto:chemound@indiana.edu).