

HSCI UPDATE



Volume 17 Issue 1

School of Health Sciences

Fall 2004

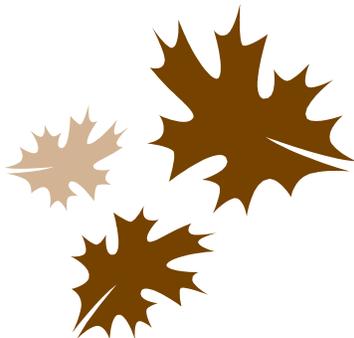


The School has seen record Fall enrollment again this year, reaching a figure of 635. This figure does not include the over 700 students registered in pre-pharmacy who were for the first time assigned to the Pharmacy School.

It has been a memorable Fall semester because we celebrated the 25th anniversary of the School on Homecoming weekend.

Returning alumni were treated to a symposium and student poster session, distinguished alumnus luncheon in honor of the 2004 recipient Dr. Wilson McArthur, tickets to the play *Miss Saigon*, tickets to the Purdue vs. Wisconsin homecoming game and various other gatherings and meals. It was my personal pleasure to meet with many alumni at these events and "update" them on our Schools progress and the many opportunities to participate in the life of our School and our students.

In this edition of the update I draw your attention especially to the articles on Dr. Li, our latest faculty addition and Dr. McArthur. These individuals are outstanding role models for students wishing to aspire to careers in academia and industry. Also, I congratulate our seniors who are graduating this semester and give them my best wishes for an invigorating, challenging career and happiness in their personal lives.



Health Science Celebrates 25th Anniversary

The School of Health Sciences celebrated its 25th Anniversary Homecoming weekend, October 16.

Special guests were Dr. Wilson C. McArthur, (PHD '71), 2004 School of Health Sciences Distinguished Alumnus Awardee Honoring John E. Christian, and his lovely wife, Robbie. Accompanying them were his brother-in-law and sister-in-law, Bill and Adelle Taylor, from Atlanta.

Dr. McArthur's career included Carolina Power and Light, Nuclear Chicago Corporation/Texas Nuclear, Hittman Nuclear and Development Corporation and Hittman Trucking Company, KLM Engineering, Inc., Quadrex Environmental Company and Tennessee Valley Authority. Dr. McArthur is currently teaching physics and astronomy at Utah Valley State College and Brigham Young University. To read more visit www.healthsciences.purdue.edu.

Additional special guests included Lynne Fairbent (BSEH '78), manager, Legislative and Regulatory Affairs, American Association of Physicists in Medicine; and Sven Rundman (BSEH '82), senior industrial hygienist, USDOL-OSHA. Both presented at the Health Sciences Scientific Alumni Symposium on October 15, in addition to Dr. McArthur.

After the distinguished alumni award presentation, Dean John Pezzuto presented the three former heads: Dr. John Christian, Dr. Paul Ziemer, Dr. Stan Shaw, along with current head Dr. George Sandison with engraved clocks in thanks and celebration of the 25th Anniversary and their leadership to the University.

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Visit the HSCI Website at: www.healthsciences.purdue.edu

Faculty Spotlight

Meet Dr. Jiang Jian Li Health Sciences, Associate Professor



It is a great privilege to write something introducing myself and work. I appreciate the excellent opportunity to join the faculty team of Health Sciences here at Purdue University.

Before coming to Purdue, I served as a tenured associated professor and section head of radiation biology, in the Beckman Research

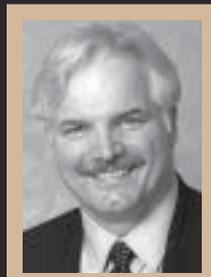
Institute, City of Hope National Medical Center located in Duarte, CA (a small city located in the San Banadono Valley about 25 miles east of downtown LA). Before moving to California, I worked as senior research fellow for the U.S. government with a cancer research project in the laboratory of The National Cancer Institute, National Institutes of Health in Maryland.

Currently, I am serving as an associate editor for the *Journal of Gene Therapy and Molecular Biology* and a reviewer for scientific journals and research grants. I am an active member of several scientific organizations, including The Radiation Research Society, The Society of Free Radical Chemistry and Biology, and the American Cancer Research Society. I am very excited I have joined the School of Health Sciences.

A graduate from a medical college in China, I earned my Ph. D. in Radiation and Free Radical Biology at the University of Iowa following a two-year fellowship training at the Department of Radiation Oncology, University of California San Francisco. My research at the NCI focused on the transcription factors that regulate different gene expression in carcinogenesis (normal cells transformed to tumor cells) in human and mouse tissues induced by chemical carcinogens. During my last five and half years working at the City of Hope, my research group was the first to describe the gene expression profile induced by therapeutic ionizing radiation in human cancer cell. A similar gene regulation pattern was established by reconstitution of

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TRASK Trust Award for Dr. McGlothlin



Dr. James McGlothlin was recently awarded a TRASK Trust Fund award by Purdue University to support the development and commercialization of a Real-time wireless video exposure system. Dr. McGlothlin and his team of researchers in the School of Health Sciences and the School of Electrical and Computer Engineering have pioneered the

development of a wireless video exposure monitoring system that can have a large impact on detection and control of hazardous chemical, physical, biological and radiological agents in the occupational environment. The system uses the latest wireless encryption technology, and the sensor and streaming video can be “tuned in” from any computer with Internet access and the proper password. Applications for this system range from healthy workplace monitoring to homeland security. This fall, Dr. McGlothlin helped form a company called *Access Informatics, Inc.* that will help bring this system to market.

25th Anniversary continuation of cover page

Alumni, faculty and friends enjoyed a tour of Dr. John Christian’s Frank Lloyd Wright home, Samara, Friday afternoon with hosts Dr. Christian and daughter, Linda Davis (BSEH ’74, MS ’76 Management) and husband, Tom.

Friday evening alumni gathered for a social time at Sgt. Preston’s of the North, and then went their ways to enjoy the Homecoming Parade or a performance of Miss Saigon at Elliott Hall of Music. Saturday a barbecue lunch was held at the Civil Engineering building where the School of Health Sciences is located today, and most went on to root for the Boilermakers at the football game. A win to Wisconsin was the only thing missing from the wonderful weekend.

A special thanks to all of the alumni and friends who helped make this a very memorable weekend on the Purdue campus. Let us know when you are coming back to visit!



2003-2004 Distinguished Students



(Deans List or Semester Honors)

<i>Katherine Aguglia</i>	<i>Thomas Alcorn</i>	<i>Alyssa Anglin</i>	<i>Mary Armstrong</i>	<i>Cynthia Bachle</i>
<i>Heather Bachman</i>	<i>Jessica Bailey</i>	<i>Mark Baker</i>	<i>Dana Behneman</i>	<i>Alexander Berger</i>
<i>Samrawit Berhanu</i>	<i>Jason Bevier</i>	<i>Jessica Bixeman</i>	<i>Brian Blake</i>	<i>David Bond</i>
<i>Jennifer Boswell</i>	<i>Nathan Brandley</i>	<i>Jonathan Brooks</i>	<i>Brendan Brown</i>	<i>Erin Buckles</i>
<i>Larry Burns III</i>	<i>Amanda Cantwell</i>	<i>Kimberly Carpenter</i>	<i>Elizabeth Carroll</i>	<i>Jamie Chaffee</i>
<i>Rebecca Chandler</i>	<i>Vera Chao</i>	<i>Maneesha Chigurupati</i>	<i>Sung Hee Choi</i>	<i>Steven Cochard</i>
<i>Tiffany Colvin</i>	<i>Kelly Coulomb</i>	<i>Zachary Crouch</i>	<i>Brian Daniels</i>	<i>Adam Darnell</i>
<i>Geoffrey Davis</i>	<i>Jessica Davis</i>	<i>Abigail Deuberry</i>	<i>Rohini Dhand</i>	<i>Sandeep Dhanjal</i>
<i>Kathryn Dyhdalo</i>	<i>Kathryn Eid</i>	<i>Jainei Ehrenzeller</i>	<i>Jacob Eisterhold</i>	<i>Ashley ElliottJames</i>
<i>Emerson</i>	<i>Laura Farley</i>	<i>Issac Fehrenbacher</i>	<i>Sonja Fleischauer</i>	<i>Katie Floyd</i>
<i>Anne Fogler</i>	<i>Katherine Frick</i>	<i>Megan Fuller</i>	<i>Marissa Fusco</i>	<i>Magda Gariel</i>
<i>Binal Gajjar</i>	<i>Xiaoxiao Gao</i>	<i>Abbi Garringer</i>	<i>Rebecca Gibson</i>	<i>Abigail Ginther</i>
<i>Miranda Gorchos</i>	<i>Christopher Gordon</i>	<i>Erica Grayson</i>	<i>Blake Grider</i>	<i>Emma Hammond</i>
<i>Eric Hancock</i>	<i>Evan Harpenau</i>	<i>Cameron Hasser</i>	<i>Amanda Hershberger</i>	<i>Scott Hewitt</i>
<i>Macara Holstetler</i>	<i>James Huffman</i>	<i>Edward Hughes</i>	<i>Brianne Irwin</i>	<i>Elizabeth Isom</i>
<i>Kiran Ivaturi</i>	<i>Emily Jackson</i>	<i>Hannah Jones</i>	<i>Amanda Keller</i>	<i>Katie Kickertz</i>
<i>Hae Kim</i>	<i>Jayne Kinney</i>	<i>Koffi Kissi</i>	<i>Julia Klinger</i>	<i>Brittany Knipstein</i>
<i>Sarah Kolb</i>	<i>Gregory Koval</i>	<i>Lynette Kregel</i>	<i>Chi Keung Lam</i>	<i>Dustin Lewis</i>
<i>Christine Lindsay</i>	<i>Erin Lunsford</i>	<i>Liesel Lunsford</i>	<i>Jake Markiewicz</i>	<i>Jacqueline McAleer</i>
<i>Coleman McCanna</i>	<i>Kelly McGuire</i>	<i>Holly Miller</i>	<i>Jennifer Miller</i>	<i>Katie Miller</i>
<i>Laura Miller</i>	<i>Andrea Mistic</i>	<i>Sarah Moebius</i>	<i>Megan Morley</i>	<i>Marilyn Morrison</i>
<i>Stephanie Mussmann</i>	<i>Rachel Nelson</i>	<i>Rebecca Nelson</i>	<i>Candy Ng</i>	<i>William Norton</i>
<i>Adam Nowak</i>	<i>Vishal Patil</i>	<i>Achal Patel</i>	<i>Erik Pattison</i>	<i>Chelsey Patton</i>
<i>Rachel Peterson</i>	<i>Yahaira Pinzon</i>	<i>Carrie Price</i>	<i>Patrick Quinn</i>	<i>Erin Quiring</i>
<i>Kathleen Ramseyer</i>	<i>Michael Rhinehart</i>	<i>Renee Richmond</i>	<i>Troy Roberson</i>	<i>Lindsay Robinson</i>
<i>Lori Rosebrock</i>	<i>Anne Rosswurm</i>	<i>Audra Sanders</i>	<i>Devin Sandlin</i>	<i>Michael Schmidt</i>
<i>Anna Schwartz</i>	<i>Katherine Scott</i>	<i>Carrie Seifert</i>	<i>Courtney Shireman</i>	<i>Carol Sims</i>
<i>Melissa Sorrell</i>	<i>Cherle Standefer</i>	<i>Sally Steffensen</i>	<i>Samuel Steiner</i>	<i>Jodi Stephens</i>
<i>Lindsay Stout</i>	<i>Lauren Sugimoto</i>	<i>Brittany Swartz</i>	<i>Nicole Taylor</i>	<i>Adienne Terveer</i>
<i>Julie Thompson</i>	<i>Kate Tooley</i>	<i>Natalie Turcotte</i>	<i>Sarah Tyrpak</i>	<i>Gretchen Vaughan</i>
<i>Sarah Vogie</i>	<i>Jennifer Volenec</i>	<i>Christina Walden</i>	<i>Eric Wagoner</i>	<i>Anna Wahl</i>
<i>Chen-Yu Wang</i>	<i>Ellen Wayman</i>	<i>Braden Weldy</i>	<i>Joshua White</i>	<i>Norton William</i>
<i>Leah Wischmeier</i>	<i>Nicholas Woodall</i>	<i>Rebecca Woodall</i>	<i>Daniel Woods</i>	<i>Ashley Wright</i>
<i>Christopher Wybourn</i>	<i>Sheng Yi</i>	<i>Grant Yost</i>	<i>Isaac Zeckel</i>	<i>Gregory Zillinger</i>



APPLAUSE

Congratulations to Dr. Li on being accepted as a member of The Study Section of Oncology, a merit review board for Basic Sciences, U.S. Department of Veterans Affairs.

Congratulations December 2004 Graduation Candidates

<i>Sana Ahmed</i>	<i>Thomas Alcorn</i>
<i>Bachir Badaoui</i>	<i>Veronica Castellanos</i>
<i>Ashley Doke</i>	<i>Jessica Hinkle</i>
<i>Joseph Johnson</i>	<i>Kristine Jones</i>
<i>Satina Jones</i>	<i>Daniel May</i>
<i>Maureen Pappas</i>	<i>Ayesha Pergadia</i>
<i>Rachel Peterson</i>	<i>Melissa Pieszchala</i>
<i>Christopher Pociask</i>	<i>Michael Tometczak</i>
<i>Adriana Trusewych</i>	<i>Andrew Vorbroker</i>



Timmy Foundation Club

from Chelsey Patton

The Timmy Foundation Club is making its debut this year. The club has four main pillars to follow.

1. To provide primary medical care to people with little or no access to medical care.
2. To provide a life changing experience for future health care providers (with regard to both medicine and international perspective).
3. To lay the groundwork for a vibrant, self-sustaining club at PU taking medical mission trips every spring break with a base of volunteers working locally throughout the year on service projects.
4. To contribute to the network of doctors worldwide who share a common interest in global medicine (in both its practices and policies).

Fifteen Purdue students will be traveling to Honduras over spring break this year. We are working diligently on fundraising and collecting medical and hygiene donations. We will be delivering hundreds of thousands of dollars in prescription medication and hygiene supplies to underprivileged children of Honduras. The club is responsible for raising all of the funds as well as collecting over the counter and prescription medicines and hygiene materials.

Many fun activities are planned for members to help our community, Timmy Foundation, and to gain perspective for the need in our world.

Pre-Physician Assistant Club

from Rachel Peterson

One of the goals of the Pre-Physician Assistant Club is to educate club members, as well as the community, on the physician assistant profession. Physician Assistants are mid-level practitioners licensed to practice medicine with physician supervision. The scope of a PA's practice includes, but is not limited to the following: conducting physical exams, diagnosing and treating illnesses, ordering and interpreting tests, and counseling on preventative health care. PAs work closely with physicians, and they are trained in the medical model designed to complement physician training. Due to the rapid growth of jobs and

increasing awareness of this occupation, it is a great time to pursue this rewarding profession.

This semester the PrePA club has a variety of events planned. In addition to our monthly meetings, we have planned a couple of trips for our members. On October 7th & 8th the Indiana Academy of Physician Assistants had their annual conference, and club members were given the opportunity to sit in and hear interesting lectures and meet with PAs, PA students, and representatives from PA schools. It was an awesome experience to be immersed in the world of a Physician Assistant for a day, and everyone was very helpful and friendly in answering questions. On October 14th Eric Frevert, our former club president, came to speak to the club on his experiences with regards to applying and interviewing to PA schools, and what PA school is really like. Students also visited two PA schools in the Chicago area, in October. Elections were held in November for our 2005 PrePA officers. Anyone is welcome to attend club meetings. Look for further information regarding meetings on the Health Science list serve.

To find out more about our club and the PA profession visit our website <http://web.ics.purdue.edu/~prepac/>. Also, please feel free to contact the club president, Rachel Peterson, via email at rpeterso@purdue.edu.

SHOTS

*(Students Helping Others Through Service)
from Harish Yalamanchili*

SHOTS (Students Helping Others Through Service) is an organization that brings the much needed change in the ways that students volunteer around the Purdue University campus and the City of West Lafayette. It is a premier volunteer organization of its kind in the sense that it not only caters to the community, but also uniquely caters to its' members. SHOTS is a volunteer based organization that stresses dedication and is a group committed to helping the community on a regular basis, rather than sporadically. The number of organizations that our members volunteer for are limited, so the volunteering members may form a relationship with the people they are volunteering for and with. This will not only help bolster the community relations between Purdue University students and the general public, but will also help provide students an easy access to volunteering. This is because the program is individually customized according to





each student's schedule and volunteer location preference. SHOTS's comprise of seven board members and 40 general members this semester.

The locations for volunteering this semester are: Home Hospital, St. Elizabeth Medical Center, YWCA, Humane Society, Head Start, Wildcat Wildlife Center, Indiana Veterans Home and Hanna Community Center. Members receive benefits such as, simplified volunteering, a detailed and validated portfolio of their volunteer hours, recommendation letters, certificates and awards for excellence in community service and semester retreats. The current board members are: Harish Yalamanchili (President) Joe Lach (Vice President) Anna Schwartz (Treasurer) Michelle Rothfuss (Secretary) Roochika Narula (Service Chair) Aparna Keshavan (Service Co-Chair) Jordan Herring (Public Chair) Chirag Mehta (Fund Raising Chair) and Jalpa Patel (Fund Raising Co-Chair/Director). SHOTS future plans are an interactive website for members, joint volunteering programs with other universities, tutoring programs, and help with locating internships and scholarships.

Purdue Student Branch of the Health Physics Society *from Joey Silvers*

The Purdue Student Branch of the Health Physics Society (PSBHPS) plans activities and events for students interested in the field of health physics and medical physics. Students in fields such as industrial hygiene and nuclear engineering are also encouraged to participate.

2004 is an exciting time for the PSBHPS! The chapter was reactivated in the spring, and has since worked diligently to enhance the academic life of Purdue students. During the year, the PSBHPS saw its membership grow to over 20 students--the largest in several years. Study sessions, Q&A panels, job offerings, athletic events, and socials have all served to support our students and our school.

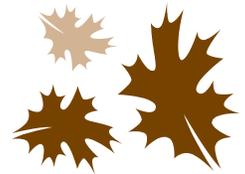
Upcoming goals are: 1) provide resume writing and job interview workshops; 2) provide outreach to local high schools; 3) facilitate a national laboratory field trip; 4) develop the PSBHPS website; and 5) build an exam/homework library.



PSBHPS Club members: Asad Khan, Robert Allman, Joey Silvers, Jolly Li, Mitu Berhanu, Bachir Badaocui, Kids: Caleb, Cana and Cameron Silvers

The officers are: Joseph Silvers (President), Maureen Pappas (Treasurer) and Samrawit Berhanu (Secretary and Activity Coordinator). Professor Robert Stewart is the faculty advisor for the organization, and Jason Harris (former President) is a co-advisor.

If you want to learn more about our organization, please attend one of the advertised monthly meetings, or contact Joey Silvers (jwsilver@purdue.edu). We are always looking for new members and suggestions for improving our organization. Hope to see you soon!



Occupational/ Physical Therapy Club News *from Katie Aguglia*

The Fall of 2004 semester has been very prosperous for the OT/ PT Club. So far this year our members have enjoyed each other's company over ice cream at Pappy's in the Union, hearing from two professionals in the field, and club kick off with pizza and information at the call-out. In October we had graduate students and an admissions counselor from the University of Indianapolis visit and a Halloween Party at George Davis Manor where we dressed up and helped with activities with residents there. If anyone is interested in joining or would like more information, please e-mail kaguglia@purdue.edu or ewayman@purdue.edu.

Health Sciences Ambassadors

from Bob Walkup

We have a wonderful group of Ambassadors. This year we added 25 new members to our roster. The purpose of our organization is to serve as outreach assistants to new and prospective Purdue University students. For the fall 2004 semester we will be serving as hosts and presenters for 14 activities on behalf of the School of Health Sciences. The spring is much more active when we participate in nearly 20 events.

The Ambassadors serve as mentors and role-models for all of the School of Health Sciences. The average GPA of this year's Ambassador group is 3.51 and represents majors and areas of concentration from all areas of study in our School. New Ambassadors are screened and selected in the spring of each year. Each Ambassador must maintain a 3.0 grade point average. Students must have completed two semesters on the West Lafayette campus before they are eligible.

Interested students should contact Bob Walkup at rcwalkup@purdue.edu for more information.

Welcome 2004-2005 Graduate Students

New Graduate Students

Jill Harvilchuck	Judy James
Robert Kover	Bo Liu
Thad Sharp	Zaho Li

Continuing Graduate Students

Jeremy Blauser	Thomas Bonner
Minsong Cao	David Carlson
Timothy Greist	Jason Harris
Mark Knezovich	Tae Lee
Ganapathy Krishnamurthi	Huajun Lu
Geraldine Mesoloras	Heather Pickett
Thomas Schumacher	Zhichang Shi

AIHce News Report



The 2004 American Industrial Hygiene Conference and Exposition (AIHce) held last May in Atlanta was a big success from many standpoints. In attendance were Drs. McGlothlin and Zimmerman, Academic Advisor Dave Tate, and as well as eight graduate and four undergraduate students. In addition, about 20 Purdue IH alumni who are now practicing industrial hygienists attended.

Drs. McGlothlin and Zimmerman, along with graduate students Lisa Wagoner, Hernando Perez, Fan Xu and Hubert Lu, presented papers or posters. All of their presentations were excellent and received many positive compliments. Congratulations to all the presenters for their hard work.

Students, faculty and alumni enjoyed food, fun and good old IH camaraderie. For the fourth year running, the Purdue Alumni Reception was formally listed in the conference program and was held in the headquarters hotel. Following the formal festivities, a number of alumni, students, staff and faculty continued the camaraderie with dinner and a night out on the town, as part of the "22nd Annual Purdue Alumni, Students and Friends Dinner". As a fundraiser for PIHSA, and to celebrate the School of Health Sciences 25th Anniversary, special commemorative PIHSA T-shirts were distributed for a donation (if you're interested in getting one, contact Dr. Zimmerman at neil@purdue.edu). Also a 25th birthday cake was brought in as a special surprise.

For the fifth year, the Purdue IH program had a display booth at the Exposition. It was again a great success, thanks in no small part to Dave Tate, who staffed the booth. He was assisted by a number of grad students, alumni and current students.

Be sure you're included in all the fun and excitement of the AIHce next May 13-17, 2005, in Anaheim! Student members of PIHSA can take advantage of yearly donations received by regional AIHA Sections to support their travel to the conference.

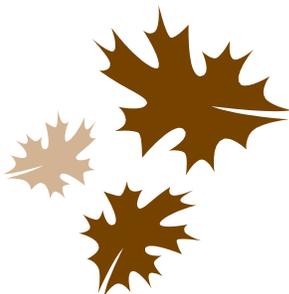
H SCI UPDATE

Editor: Amanda Pendleton

We invite you to visit the School at our website:
<http://www.healthsciences.purdue.edu>

Status of Last Fall's ABET Industrial Hygiene Program Accreditation Site Visit

Purdue's Accreditation Board for Engineering and Technology (ABET) accredited BS and MS Industrial Hygiene programs were required to undergo a complete site visit as part of ABET's periodic re-accreditation procedure. Faculty, staff, students and alums met with the site visitors to demonstrate the quality of our program as well as the numerous additions and improvements since our last accreditation visit. The result was that Purdue's IH programs received excellent comments from the reviewers and has been re-accredited. Thus, Purdue can still boast that it is the only university with both BS and MS accredited IH programs!



Purdue's Industrial Hygiene/Occupational Health programs are looking for recruits

If you still are not sure "what you want to be when you grow up", but you definitely know that you want a career that:

- is challenging, exciting and rewarding
- offers a great deal of variety
- allows you to utilize your education in a number of venues
- allows you to work indoors and/or outdoors
- has opportunities in government, industry, consulting, medical, military, academia
- and, most importantly, allows you to help others

then, Purdue's Industrial Hygiene/Occupational Health major may be just what you are looking for! For more information, see you advisor or one of the IH faculty.

INDUSTRIAL HYGIENE NEWS

From Dr. Neil Zimmerman

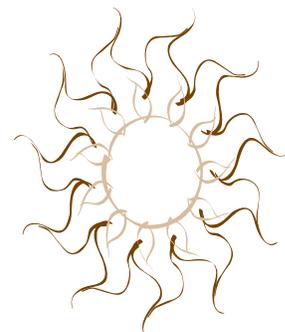
Summer Internships in Industrial Hygiene

One of the most important ways to learn about your major field of study is to gain some type of work experience. A good way to do this is with a summer internship - and, that's exactly what nine undergraduate Industrial Hygiene students did last summer! Not only does this give you a chance to gain valuable practical experience, apply what you have learned in class, not to mention, earn some cash, but it also looks good on the resume. Congratulations to the students below who obtained internships. If you'd like more information, talk to these students, talk to your counselor or one of the IH faculty. Keep your eyes and ears open for job announcements throughout the school year, and do some of your own job searching. Also, if you are an OHS, RHS or EHS major, don't forget to submit your resume to PIHSA's online resume book (for internships OR full time positions).

Matt Brock
Laura Butler
Steve Dunphy
Joe Johnson
Joe Ladalski
Amy McNary
Melissa Pieszchala
Nicole Taylor
Laura Yakubec

Wabash Trailer
Hygieneering
S C Johnson
Hygieneering
Argonne National Laboratory
Temple Inland Paper
Eli Lilly, Tippecanoe Labs
Honeywell Brake Landing Systems
Harper College

Lafayette, IN
Chicago, IL
Wisconsin
Chicago, IL
Argonne, IL
Indianapolis, IN
Lafayette, IN
Ft. Wayne, IN
Palatine, IL





Forensics Update

from Dave Tate



CROSS

CRIME SCENE DO NOT CROSS



Dave Tate, Patrick Jones and Ralph Williams with the "Department" Hummer

The popularity of the forensics courses continues to grow. Enrollment in the HSCI 218 Introduction to Forensics Sciences is 475 with 30 students enrolled in the independent section. We anticipate numbers for the HSCI 318 Criminalistics to be in the neighborhood of 200 and the HSCI 319 Criminalistics Laboratory at 160. The great and growing popularity of these classes has presented some room problems requiring unique solutions.

Publicity surrounding the courses has led to many requests for demonstrations from both high school science teachers and colleges. We have recently participated in more than six outreach programs. One of note was for Dr. Ralph Williams and I to be the inaugural program of the "Meeting of Great Minds" 2-day workshop sponsored by six colleges associated with Lorain County Community Colleges (LCCC), Lorain, Ohio. Two hundred high school students



participated and this resulted in a grant which supported a three- day workshop for high school teachers and students interested in forensics. It was delivered by Ralph, myself, and Patrick Jones, a retired Chicago policeman with 25 years of experience.

An agreement has been approved for Vincennes University to have students completing their associates degree to transfer to the School of Health Sciences under any of our majors.

Our courses use experts from Purdue as well as from outside the university. Currently, we have instructors from the ATE, FBI, the Indiana Counter-Terrorism and Security Council, Indiana Department of Public Safety, both the Indiana and Illinois State Police, the Indiana University School of Medicine, and the McHenry County Coroners office, in addition to a board certified forensic toxicologist, and a lawyer from the Indiana Law Enforcement Academy.



Current proposals under development include the formation of the Center for Forensic Sciences, Security, and Technology to consolidate campus collaboration and communication, development of a K-9 bomb dog certification program, procurement from the ATF of a full ballistic water testing tank and use of the national ballistic database IBIS, and participation with Dr. Debra Sherman and use of the Scanning Electron Microscope facility.



The Forensic Science Club visits the world famous University of Tennessee "Body Farm"

CROSS

CRIME SCENE DO NOT CROSS

25th Anniversary Celebration



Head of Health Sciences Dr. George Sandison, Dr. Paul Zeimer, West Lafayette Mayor Jan Mills, Dr. John Christian, Lafayette Mayor Tony Roswarski, Dean of Health Sciences Dr. John Pezzuto, Dr. Stan Shaw

Office of Student Services

from Bob Walkup

We are bursting at the seams! Our fall undergraduate enrollment has surpassed 600 for the first time in School history. The quality of our student body continues to increase along with the numbers of students. Perhaps we are no longer “the best kept secret at Purdue.”

We are very fortunate to have the best Student Services Office Staff at Purdue. These folks serve students in a manner that make us the envy of Purdue students. Unending service, warm smiles, a family atmosphere, and a fun place to visit are the hallmarks of our office and its staff.

Dave has been very busy coordinating the new Forensic Sciences program. While it has yet to be determined where exactly we are headed, the interest among Purdue University students is extremely high. Dave also

still coordinates the Clinical Laboratory Sciences (Med Tech) Program. We have nearly 80 students enrolled in the Med Tech program. In addition, Dave advises Lambda Tau and the Forensic Science Club.

Rosie, our newest addition to the advising staff, has been very busy coordinating all of our pre-allied health programs. She brought with her an amazing knowledge about Purdue and how the various systems are connected to improve student service. Rosie is advisor to the PT/OT Club, the Reamer Club and is a faculty fellow to Owen Hall 2 South West.

Amanda Pendleton has joined us from the Department of Physics as our office manager and Update editor. Amanda is also responsible for our webpage content as well as keeping us all on task! We are very pleased to have her join our staff.

Karen Walker, our former office manager, is now the executive secretary for the School of Health Sciences.

2004-2005 Health Sciences Ambassadors



From left to right: Mitu Berhanu, Ellen Wayman, Katie Aguglia, Jodie Stephens, Jamie Chaffee, Lori Rosebrock, Tasha Metzger, Diana Kelettis, Meredith Turner, Jessica Bailey, Katie Eberle, Christa Hallowell, Lindsay Robinson, Lauren Fisher, Abi Ginther, Chris Shinneman, Sana Ahmed, Kelly Vogie, Emily Lynch, Binal Gajjar, Carrie Seifert, Mike Degnan, Greg Zillgen, Lauren Sanchez, Mike Talbott, Harish Yalamanchili, Vishnu Reddy, Matt Roberts, Cammie Hasser, Troy Robertson, Scott Hewitt, Eric Wagoner, Jack Schneider, Blake Grider, Annie Rosswurm, Julie Thompson, Mark Baker, Ashley Elliott, Devin Sandlin, Emma Hammond, Maneesha Chigurupati, Kristin Felton, Ashley Doke, Anna Schwartz, Kelly McGuire, Rachel Peterson, Brian Daniels

Upcoming Events

- January 17, 2005 Martin Luther King Day (no classes)
- March 1, 2005 Registration begins
- March 14-19, 2005 Spring Vacation
- April 15, 2005 The School of Health Sciences Spring Banquet
- April 17, 2005 University Honors Convocation, at the Elliott Hall of Music



2005 Robert R. Landolt Award for Excellence in Teaching

The School of Health Sciences is pleased to request nominations for the 2005 Robert R. Landolt Award for Excellence in Teaching. Faculty and staff who teach health science courses can submit a nomination or provide an additional letter of support for a nominee. To submit a nomination or to request additional information about the award, please contact Dr. Frank S. Rosenthal, Chair, School of Health Sciences Award Committee, Room 1273 CIVL, 765-494-0812, email: frank@purdue.edu. Nominations can be submitted at any time, but should be received no later than **February 16, 2005**.



MnSOD, an antioxidant enzyme in human mitochondria (These results have been published in the highly ranked journals in biomedical fields such as Mol. Cell. Biol., Oncogene, Cancer Research). Using the mouse skin cell model established at the NCI, we have described the gene expression profiles induced by exposure to low dose environmental ionizing radiation.

Two proposals addressing radiation induced protective gene regulation have been ranked as top priorities by the grant reviewing committees, and funded respectively by NIH (RO1 \$1,290,000) and DOE (RG \$ 670,000).

In June 2004, my laboratory was relocated to Purdue University, School of Health Sciences, to continue the molecular radiation biology studies. Two scientists relocating with me from California are: Dr. Shaozhong Dong, A.D. Ph.D., graduate of Peking Union Medical College, No. 1 medical university in China; and Ms. Ming Fan, M.S., from the Radiation Biology Program of the University of Iowa and manager of the Department of Molecular Virology at City of Hope National Medical Center.

We are currently focusing on two specific signaling proteins linked with mitochondria-mediated cell survival, i.e. 14-3-3 zeta and cyclin B1 in cell response to ionizing radiation. These two proteins have been found to be up-regulated

in cells exposed to ionizing radiation and regulated via mitochondria antioxidant MnSOD, and importantly contribute to the decision of cell death or survival under different stress conditions including ionizing radiation. The immediate goal of these studies is to determine if modulation of these two proteins can protect human tissues against the damage induced by acute exposure to high doses of ionizing radiation. This signaling network also has potential in improving tumor radio-sensitivity under clinic radiotherapy treatment by using specific small molecules blocking the functions of these two proteins in human cancer cells. I feel, after staying in Indiana for the past three months, that choosing to come to Purdue has been proven to be the right decision. The academic environment and the leadership of this administration strongly encourage efficient collaborations among different groups, which I believe is a critical step in meeting the challenge of maintaining human health, today and tomorrow.



Freshman Scholars Update

From Dr. Frank Rosenthal

The School of Health Sciences is proud to announce its Freshman Scholars for the 2004-2005 academic year. The program provides freshmen, selected competitively based on high school scholastic performance, the opportunity to work with a faculty preceptor in a field related to health and medicine. This year we have four scholars from across Indiana and Kentucky. All are off to a great start working on their projects with their preceptors.

The students are also participating in a seminar discussion course, and are benefiting from additional experiences through contact with guest speakers and peer mentors (upper class students who are previous Freshman Scholars.)

2004-2005 Freshman Scholars

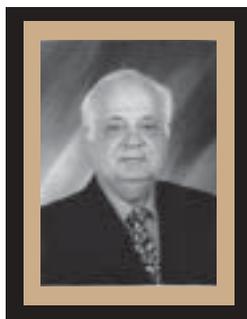
Name	Hometown	Preceptor	Peer-mentor
Meg Brock	Marion KY	Dr. Wei Zheng	Kelly Vogie
Kari Caudill	Greenfield, IN	Ms. Dusti Chase*	Mark Baker
Jon Hopkins	Connersville, IN	Dr. Shuang Liu	Rob Beckett
Victor Gootee	Zionsville, IN	Dr. George Sandison	David Bond



*St. Elizabeth's Medical Center Physical Therapy Department



2004 Distinguished Alumnus



Dr. Wilson McArthur

B.S., Physics, East Carolina University, 1965

M.S., Radiation Physics, University of North Carolina, 1967

Ph.D., Radiological Physics, Purdue University, 1971

Wilson McArthur served in the U.S. Air Force prior to obtaining his academic degrees. Upon graduation from Purdue, Dr. McArthur began his career as a Principal Project

Engineer for Carolina Power and Light where he directed the engineering and coordinated the construction efforts of a 4 unit pressurized water reactor. During this time he was involved development of the first computerized radiation monitoring system at the Shearron Harris Nuclear Plant.

He spent a short period of time with Nuclear Chicago Corporation/Texas Nuclear and installed low voltage accelerators in facilities including Valparaiso University and Notre Dame. In 1977, he became Vice President and General Manager of Hittman Nuclear and Development Corporation and President of Hittman Trucking Company.

In 1982 Dr. McArthur became principal and president of KLM Engineering, Inc. where he was responsible for radioactive waste, radiation protection consultation, and new business development. He also assisted health, physics, and

chemistry groups within nuclear power plants through audits and corrective actions to develop a positive management style and a full understanding of their individual role and the relationship of their technical services to plant operations.

In 1990, he assumed the position of Manager, Radiological and Chemistry Services for the Tennessee Valley Authority (TVA). As manager his responsibilities included radiological safety, emergency preparedness, chemistry, radioactive waste management and the radiological laboratory, industrial safety, security, and environmental protection.

He is currently teaching physics and astronomy at Utah Valley State College and Brigham Young University. He is working to develop both two and four year degrees in radiation protection at Utah Valley State College.

Dr. McArthur has authored and presented over 150 technical papers in the fields of radiation safety, instrumentation, waste management, computer applications, and organizational management. He is past president of North Carolina and Chattanooga Sections of the American Nuclear Society and the North Carolina Chapter of the Health Physics Society. He is also a registered Nuclear Engineer with the State of California and a Certified Hazards Control Manager.

Magic, cosmology, and collecting are a few of his interests Dr. McArthur and his wife Robbie, a teacher by training, are very active in The Church of Jesus Christ of Latter-Day Saints and in the lives of their three children and 10 grandchildren.