



On - CITE

Meet the CITE Personnel: Dr. Clair Roudebush

We would like to provide you the opportunity to become more familiar with the faculty in the College of Information Technology and Engineering, and so occasionally we will provide personnel profiles to you. In this issue Dr. Clair Roudebush is profiled in his own words.

This is my fifth year of teaching in the Safety Technology Program at Marshall University. I came to Marshall with a wide variety of safety expertise obtained through industrial work experience combined with teaching experience in several different university settings.

I began my career in the safety profession approximately 25 years ago when I graduated with a master's degree in Industrial Safety from Central Missouri State University. I graduated in 1981 when the nation was in the early stages of a recession. Although jobs were somewhat difficult to obtain, I was fortunate to quickly find employment working as a fire protection specialist for Marsh & McLennan due to my combined technical drafting/building construction background and my recent degree in industrial safety.

Over the next five years, I worked for Marsh & McLennan doing consulting

work for high risk companies throughout the eastern region of the United States. During this time period, I developed an interest in fire protection engineering for the oil refining industry. After five years of extensive job related travel, I began looking for a career change. In 1986 I left the job with Marsh & McLennan and enrolled in the doctoral program at Texas A&M University.

My initial interest in Texas A&M stemmed from their international reputation as "the place to go" to study petrochemical firefighting. During my three years of study at Texas A&M, I attended most of the firefighting and hazmat training courses offered by the university's engineering extension service and gained valuable "hands-on" expertise in this specialized area of safety technology.

While working on my Doctorate, I was offered an instructor's position in the Engineering Technology Department teaching machine production techniques, and principles of industrial safety. This experience shifted my interest from "smoke eating" in the fire protection field, to computerized numerical



control machine language and robotic work cell integration in the Engineering Technology Department. I graduated from Texas A&M University with a PhD in industrial education with supporting fields in safety and engineering technology.

My next teaching position was at the University of Minnesota. The primary teaching responsibility was in the Masters of Industrial Safety Program. This program had a national reputation for preparing students as safety professionals in the highly dangerous semiconductor industry. I also worked with Chuck Bailey on a safety perception survey validation research project "A Tail of Two Railroads". The project was originally conceived and developed jointly between the University of Minnesota, Chuck Bailey, Dan Peterson and the Association of American Railroads.

My next career move was a teaching position at Indiana University of Pennsylvania (IUP) where I taught both undergraduate coursework in the technical aspect of occupational safety and

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Exploring Engineering Academy



Marshall University and the College of Information Technology and Engineering will host the sixth annual Exploring Engineering: Academy of Excellence (EEAE) this summer. The Academy will take place June 11 through June 16 on Marshall's Huntington Campus. Participating students will again be staying in suites located in Marshall's new dormitories – University Commons – which opened fall 2003.

The Academy is designed to encourage high school students to explore engineering as a career by participating in hands-on engineering activities, touring

engineering-related facilities, and interacting with practicing engineers.

Planned activities for 2006 include designing and building catapults, CAD/Cam design of CO2 cars, and Lego robotics; field trips to Toyota Manufacturing and other facilities; and numerous opportunities to interact in a creative environment with faculty, professional engineers and other students. On the opening day, students and their families will also hear a presentation from a prominent engineering practitioner from the region.

EEAE is free to qualified students and made possible only through the generous support of Marshall University, the Nick J. Rahall II Appalachian Transportation Institute, Society of American Military Engineers Huntington Post, Learning for Life and many other organizations and individual engineers who have committed time and money to promote the engineering discipline to high school students. Please take time to visit our Academy sponsors listed on the EEAE web site www.marshall.edu/eeae.

Summer Registration - check the class dates carefully!

Monday, 3/27 Advance registration is open to all currently enrolled students

Monday 4/3 Advance Registration is open to all admitted/re-admitted students

Consult the schedule below for registration deadlines, which will vary depending upon the summer session(s) for which you register. Please note that the MU Summer Schedule contains a complete calendar of dates and deadlines.

Session A (5/8-6/2) - No CITE offerings

Session B Term 2 (5/15-6/26):

Payment is due no later than date on invoice or May 12
Late Registration is the first day of classes May 15; payment due that day.

Session B Term 3 (6/27-8/7):

Payment is due no later than date on invoice or June 26
Late Registration is the first day of classes June 27; payment due that day

Session C (6/5-7/7):

Payment due no later than date on invoice or May 26
Late Registration is the first day of classes June 6; payment due that day.

Session D (7/11-8/11) - No CITE offerings

Graduate Courses offered in Portsmouth, OH

Following approval from the Ohio Board of Regents and West Virginia Higher Education Policy Commission, courses are being offered through Shawnee State University (SSU) in Portsmouth, Ohio. The courses lead toward either the M.S. in Environmental Science or the M.S. in Safety.

For more information about these courses and future offerings at SSU, please contact Dr. Allan Stern, Division Chair. He can be reached at 696-3069; stern@marshall.edu.

The proposed Summer 2006 offerings at Shawnee State University will be:

ES 614 Risk Assessment
SFT 540 Industrial Fire Protection



Faculty Profile: Dr. Clair Roudebush continued from page 1

graduate courses in management aspects of occupational safety. I also worked on a part-time basis as a safety consultant for OSHA in the Pennsylvania OSHA Consultation Program.

In 1994, I began teaching at Millersville University of Pennsylvania in the Occupational Safety and Hygiene Program. This program was part of an Industrial Technology Department with extensive industrial laboratory equipment. This equipment gave me the opportunity to develop and build a safety engineering laboratory for student instruction and research.

The geographical area surrounding Millersville University was noted for the manufacture of crane slings and rigging equipment. I used this opportunity to attend various company sponsored training and gain valuable knowledge in the field of crane rigging safety. This knowledge eventually led to my co-authoring four books on rigging technology.

I began teaching at Marshall University in January of 2002. During the past four years I began offering OSHA certificates in both general industry and construction safety. During this time period I have also become a voting member of the American Society of Testing Materials Subcommittee E-34 (Occupation Safety and Health Standards) and Subcommittee F-13 (Pedestrian/Walkway Safety)

My research interests while employed at Marshall University have been in the area of machine safeguarding control systems for automated manufacturing environments. I am currently working on research regarding Detachment Force Vectors for Angular Eye-bolt Installations of Emergency Pull Cables.

In summary, I have brought 25 years of technical expertise to the Safety Technology program at Marshall University.

Commencement Exercises Saturday, May 6, 2006

The 169th Commencement Exercises will be held Saturday, May 6, at the Big Sandy Superstore Arena. There are no restrictions on the number of guests attending the ceremony. Detailed instructions for graduates participating in the ceremony will be available two weeks before the event at the Office of the Registrar on the Huntington campus and at Graduate Admissions on the South Charleston Campus.



The instructions will also be posted on the following web site: www.marshall.edu/registrar. All persons participating in the ceremony must be attired in the Academic Cap and Gown. Arrangements can be made through the Huntington and South Charleston bookstores for cap and gown, and also the purchase of commencement announcements.

Spring 2004 masters' degree graduates

A great way to celebrate completion of your master's degree is to participate in the masters' degree hooding ceremonies. Schedule:

South Charleston Hooding Ceremony
7: 00 pm Thursday, May 4
Charleston Municipal Auditorium

Huntington Hooding Ceremony
7:00 pm Friday, May 5
Big Sandy Superstore Arena

You can choose which location of the Hooding Ceremony is most convenient for you to attend. You will be hooded by a faculty member that you select. More details will be sent through the mail from the offices coordinating the ceremony once the schedule is finalized, but we wanted you to mark your calendars now. We hope to you see you there - as well as your family and friends!

Application Deadline for July Graduation is Friday, June 9

Application Deadline for August Graduation is Friday, July 14

Details can be found on the college web site at www.marshall.edu/cite

Summer Courses

EM 620 - Human Resources in Technical Organizations

Presents issues, theories, and procedures associated with the development and management of human resources in technical organizations. Course is being offered on Tuesdays and Thursdays from 6:00-9:00 pm in Huntington and South Charleston through the videolink during Session B Term 3 (6/27-8/7). Dr. Eldon Larsen is the instructor and can be reached at 746-2047; larsene@marshall.edu.

EM 660 Project Management

Provides the student with a practical knowledge of how to manage programs and projects effectively. Emphasis is placed on working with people, setting good project objectives, and making effective plans. The course is being offered Mondays and Wednesdays on from 6:00-9:00 pm in South Charleston during Session B Term 3 (6/27-8/7).

ES 614 Risk Assessment

Will provide a comprehensive review of currently used methods and applications of risk assessment in environmental science and engineering. The focus will be on the analysis of potential risks in all media, and will include State and Federal requirements and guidelines for human health and ecological risk assessment. The course is being taught using WebCT/VISTA during Session B Term 3 (6/27-8/7). Dr. Scott Simonton is the course instructor and he can be reached at 746-2045; email: simonton@marshall.edu

ES 646 Dynamics of Ecosystems

The purpose of the course is for students to gain a working knowledge of important ecological concepts, to appreciate the different ecosystems and to understand the cycles that are important in maintaining each ecosystem type. A format is used of dynamic, systems modeling to connect species interaction; population, community and ecosystem

ecology; productivity; and population dynamics as applied to aquatic, marine, and terrestrial ecosystems. The course is offered from 6:00-9:00 pm on Tuesdays and Thursdays in Huntington during session B Term 2 (5/15-6/26). Dr. Michael Little, chair of the Integrated Science and Technology program, College of Science, is the course instructor and he can be reached at 696-5446; email: little@marshall.edu.

IE 639 Operations Research

Examination of the methodology of operations research, including linear programming, transportation methods, network flows, economic analysis, decision analysis, queuing theory and simulation. Course will be taught on Mondays and Wednesdays in Putnam County during Session B Term 2 (5/15-6/26). Dr. Neal Lewis is the course instructor and he can be reached at 746-2078; lewisn@marshall.edu.

IS 600 Management Information Systems

Management Information Systems is an introduction to the use and design of information systems in organizations. Among the many topics participants will consider are how technology can facilitate management and improve decision-making, strategic applications of technology, and social aspects of implementing information systems. Class sessions will be devoted to group discussion and exercises. The class is taught in the CITE South Charleston class/seminar room with laptop computers available for each participant. The course is offered on Tuesdays and Thursdays 6:00-9:00 pm Session B Term 3 (6/27-8/7). Dr. Tom Hankins is the course instructor and he can be reached at 746-2044; thankins@marshall.edu.

IS 625 Software Engineering

This might well be the course most useful to opening Career Opportunities for you.

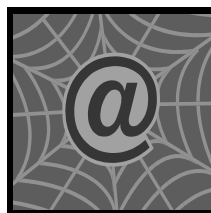
Software Engineering is about the Development, Management and Evolution of Software. It is a relatively new discipline which emerged and rose to prominence on account of fact that most software systems now being developed, used, and serviced have a **high inherent complexity**, and that necessitates the application of **Engineering Principles** to their development and maintenance. Academic exposure to the methods and techniques which now form the body of Software Engineering are intended not only to impart awareness and knowledge, but to help individuals develop of coherent and integrating philosophy about the process that leads to **Software continuously meeting the needs of the User, while optimally managing the resources devoted to the process.** Course is being offered Tuesdays and Thursdays 6:00-9:00 pm Session B Term 3 (6/27-8/7). It will be taught by Dr. Jamil Chaudri, and he can be reached at 696-2694; Chaudri@marshall.edu.

IS 631 Information Security

Covers the elements of computer and network security, including computer attacks, preventive methods, risk management, legal/ethical issues, computer crime and forensics. Case studies and hands-on exercises will be used. Course PR: IS 610, 622, 623, or permission. The course is offered in South Charleston on Mondays and Wednesdays 6:00-9:00 pm Session B Term 2 (5/15-6/26). Dr. Patricia Logan is teaching the course and she can be reached at 746-1951; loganp@marshall.edu

IS 645—Geographic Information Systems (GIS)

The course will provide an overview of the field of GIS, related technologies, and their usage. The steps in



Summer Courses continued

designing, implementing, using, and maintaining a GIS will be covered. These steps include: data collection and validation, basic cartography and digital mapping, database development, integration of maps and databases, and analysis. Course will discuss the resources required for implementing GIS, and the strategic implications of using GIS for an organization. The GIS course can potentially be used as an elective in the IS, ENGR, ES or TM programs; please consult your advisor for permission. Course will be offered on Mondays and Wednesdays from 6:00-9:00 pm in Huntington during Session B Term 2 (5/15-6/26). Mr. Jamie Wolfe is the instructor, and he can be reached at 696-6042; jawolfe@marshall.edu.

New Course

IS 651: Data Warehousing

This course will deal with the concepts and application of both "Data Warehousing" and "Data Mining". It is designed to cover the concepts of designing a data warehouse, understanding preprocessing techniques, implementing the data warehouse, analyzing the data to be mined and retrieving the data with effective database queries.

Each student will be expected to implement several projects using SQL Server and OLAP (On-Line Analytical Processing). There will be several tutorial type projects that will acquaint each student with SQL Server. Class discussion will be a significant part of the course and all students are encouraged to participate in the discussion. The course is offered in Huntington on Tuesdays and Thursdays 6:00-9:00 pm Session B Term 2 (5/15-6/26). Prof. John Biros is the course instructor and he can be reached at 746-1941; jbiros@marshall.edu.

New Course

IS 652 - Computer Forensics and Incident Response

This course is designed to cover the entry-level and intermediate concepts in incident response including the foundation knowledge in how to *prepare, detect, react,*

and respond to many types of crisis situations involving an incident response team. The course will focus on the role of computer forensics in incident response and the process of locating, handling, and processing computer evidence. The course is offered in South Charleston on Mondays and Wednesdays 6:00-9:00 pm Session B Term 3 (6/27-8/7). Dr. Patricia Logan is the course instructor. She can be reached at 746-1951; email: loganp@marshall.edu.

SFT 490 & SFT 650 Internship

It is never too early to start thinking about your internship. Where do I want to go to work or in what manufacturing organization do I wish to work? The Safety Technology Program receives calls from many local and out of the area companies seeking interns to work for the Summer, or a semester or even longer. We have openings at Delta Airlines in Atlanta, Georgia. Or perhaps Flexis in Charleston, WV? Or maybe Delphi Automotive in Dayton Ohio? Or Marathon Ashland Petroleum? See what is available.

Remember, your internship is the stepping stone for the student which, if performed well, may lead to a permanent position with that company. The undergraduate and graduate internship courses will be offered During Session C extended session from 6/5 - 8/11. Please contact Dr. Allan Stern, at 696-3069; email:stern@marshall.edu for permission to register for SFT 490 or 650.

SFT 630-Current Literature and Research in Occupational Safety and Health

For students contemplating an MS in Safety, this is an excellent first course. Students will learn about library references and various safety web

sites. Fundamentals of basic research design will be covered. Journals and periodicals will be researched to find the most current safety research. The course also provides an excellent foundation of resources for future safety papers students will be required to complete in other courses. This course is being taught by Asst. Prof Jim McIntosh in Huntington during Session C (6/5 - 7/7) on Mondays, Wednesdays and Thursdays from 6:30-9:00 pm. He can be contacted at 746-2039 email: mcintoshj@marshall.edu.

TE 699 - Comprehensive Project

Students with approved comprehensive project proposals from TE 698 are permitted to register for TE 699. Successful completion of TE 699 includes an effectively written, well documented report that presents an original solution, and an oral presentation of the project to a faculty committee. The course is offered during Session B Term 3 (6/28 - 8/8). Permission from your advisor is required for you to register, and you should expect to work closely with your advisor to ensure completion during the term in which you are registered.



TM 699 Capstone Project

Successful completion of TM 699 includes an effectively written, well documented report that presents an original solution, and an oral presentation of the project to a faculty committee. The course is offered during Session B Term 2 (5/15 - 6/26). Permission from your advisor is required for you to register, and you should expect to work closely with your advisor to ensure completion during the term in which you are registered.



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www.marshall.edu/cite

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MyMU provides an integrated web site where you can register for classes, check for holds, use your MU email, view your unofficial transcript, verify your advisor and update your contact information.

MU email is an important type of communication to students. You need to have a process in place to check your MU email.

Visit <http://mymu.marshall.edu>.

If you have any difficulty in accessing myMU or your email account, or are not sure of the status of your email account you can contact the following individuals:

Computing Services Help Desk 696-3200

Email: helpdesk@marshall.edu

The following identification is required to access the WWW registration systems:

Student Identification Number: This is your nine-digit identification number assigned by Marshall University.

Personal Identification Number (PIN): A six-digit number consisting of your date of birth (i.e., student born on March 23, 1973 would have PIN # 032373). For added security, students are encouraged to change their PIN number as soon as they access their personal account.

Please note that on the dates that registration is suspended, you will not be able to register by WWW.

You can pay your tuition on-line by credit card or check. No need to wait in line to register or pay - use the web!

