

On - CITE

Faculty Profile: Prof. James McIntosh

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 James McIntosh, Assistant Professor in the Safety Technology program, is profiled.

I am a native of West Virginia and grew up in the northern part of the state. My father ran an asphalt plant and the rest of the family worked mostly in the coal mines. I got lucky and lived near a public "mini park" which was popular at the time. The park included some tennis courts which became a home away from home. Tennis became a passion and helped me get an education and later meet a lot of the business community.

I attended Fairmont State College (now Fairmont State University) and majored in Engineering Technology concentrating on Architecture and tennis. I thoroughly enjoyed architecture and excelled in math and science but struggled a

bit with art. However, I did well at the tennis and helped the small college team compete at the national level. I was even an Academic All-American for a couple of seasons and almost cracked the national tournament quarterfinals.

Not bad for a guy that didn't have a lesson or a coach until college! Part of the degree included taking a safety class. This was my first experience with safety and I thought safety was OK, but it really didn't do much for me at this point in life.

During my last semester I began an internship with the Appalachian Regional Commission as an intern architect doing drafting and some basic landscape architecture. I was planning on attending graduate school in architecture to complete a professional architecture degree. At about the same time I got accepted at Drexel University in Philadelphia, I was



offered a full time job at the Commission. I took the job thinking

that school could wait a year. As the new guy I was put in the field as a project construction inspector. The projects were municipal building additions,

parks, parking lots and other types of community improvements. Safety quickly became my priority assignment and I started showing an interest in the field.

Still wanting to continue my education I visited WVU and met with Dr. Ralph Plummer in the Industrial Engineering department. Dr. Plummer hired me to work as a graduate assistant and off I went into Industrial Safety. I soon meet Dr Terry Stobbe, a renowned ergonomist from the University of Michigan, and also began working with him. I found myself working on a wide

Inside this issue:	
Grad courses in Ohio	2
Note from the Dean	3
Course Highlights	4
Fall Courses - Insert	
Course Highlights continued	5
Registration Dates & Web and MyMU	6

Faculty Profile: Prof. James McIntosh continued from page 1

variety of research and consulting projects involving safety and industrial hygiene in facilities including coal mines, glass plants and steel mills. I was fortunate to be mentored by these two professors and afforded the opportunity to travel and work with them across the country. They were teachers, researchers, and consultants — what a varied and satisfying lifestyle! I learned much from them. I am grateful and hope that I encourage and help my students the way they encouraged and helped me.

My final research projects lead me to my first job at NIOSH (National Institute of Occupational Safety and Health) in Morgantown. I completed an MSE in Industrial Engineering and Occupational Safety and Health in 1987 and went to work at NIOSH in the Field Investigations Section, primarily working on protective equipment research projects. I had the opportunity to work with world class safety researchers, such as Dr. Warren Myers. I worked on projects involving respiratory protection, self contained breathing apparatus used by firefighters, and air sampling equipment used in underground coal mines. I also served on a field team which investigated occupational fatalities when protective equipment was involved. At NIOSH I got to spend some quality time in Atlanta, New York city,

Philadelphia and Chicago. I left NIOSH for Charleston since I had a great opportunity with ERM, a rapidly growing environmental safety and health consulting firm. Consulting was great for the wide range of industries with which you work. Following the advice of a good friend who worked in safety, I studied and passed the national board certification exams in Industrial Hygiene (CIH) and Safety (CSP).

One of the clients at ERM was Monsanto and after a few years of consulting I wanted some traditional industry safety and health experience so I went to work there. I stayed for 12 years and worked my way through the organization. This is where I learned about the real day to day workings of a safety program, some of which I believe can only be learned by day to day experience. While at Monsanto, which later became Flexsys, I was very active in community emergency preparedness activities as well as with the WV Manufacturers Association and WV Chamber of Commerce. I left as the Environmental, Safety and Health Team Leader for an opportunity to redesign and implement Industrial Hygiene and safety programs at a large Marathon oil refinery. While at Marathon, I learned about the opportunity with Marshall and thought "Here is the opportunity I always wanted!" With the support and encouragement of my

wonderful wife, Jennifer, I left refining and joined CITE in 2005. I have not regretted the decision. I have truly enjoyed every aspect of coming to Marshall and working in CITE. I have been able to teach, consult on safety and health issues, become active in a community organization and I am getting started in Marshall research projects. It's everything that I thought it would be and have wanted to do.

Since joining CITE, I have been involved in some exciting activities along with teaching new courses at the undergraduate and graduate levels. We have grown membership in our student ASSE group for which I am the Faculty sponsor. I am also very pleased with the response and participation from our alumni for our second annual Safety alumni meeting held at the end of October. About 40 Alumni attended! I am also chairing a new safety committee for the WV Chamber of Commerce. Organizing and developing the committee has been challenging. This committee has helped plan the Annual Chamber HR and Governors Safety Conference which is planned for October 31-Nov 1st and is at full registration. Coal Mining Safety and WV Brownfield's are two exciting projects which I look forward to continuing to work on into the future.

While not pursuing professional goals I try to enjoy and spend time with my family. In addition to my wife Jennifer I have two great sons, Thomas and Anthony. I also enjoy fly fishing and occasionally hitting a tennis ball.



Note from the CITE Dean

Anthony B. Szwilski, PhD., P.E.



As you may all be aware, Betsy Dulin left Marshall University for new challenges joining Bowles Rice McDavid Graff & Lowe LLP at the law firm's Charleston office. I am serving as Interim Dean. I look forward to working with the CITE faculty and staff and all our stakeholders.

CITE and other entities. There is also the potential for fast-tracking the design and construction of an engineering laboratory complex. President Kopp has put Engineering and CITE high on the list of priorities for development. The next few months will be an exciting phase for CITE.

*"A new applied Engineering Complex is being planned, which will house the college."
Dr. Tony Szwilski
CITE Dean*

CITE's many short-term challenges include planning for a new building that will house

You are welcome to contact Dr. Szwilski at 304/696-5457; email: szwilski@marshall.edu

Graduate Courses offered in Portsmouth, OH

Following approval from the Ohio Board of Regents and West Virginia Higher Education Policy Commission, the Division of Environmental Science and Safety Technology is offering courses in Portsmouth, Ohio which lead toward either the M.S. in Environmental Science or the M.S. in Safety. Spring 2006 offerings at Shawnee State University will be:

ENGR 610 Applied Statistics
SFT 589 Process Safety
SFT 599 Occupational Safety Program Management
TE 698 Comprehensive Project Formulation

For more information about these courses please contact Dr. Allan Stern, Applied Science and Technology Division Chair. He can be reached at 696-4664; stern@marshall.edu.

Application Deadline For May 2007 Graduation

Application Deadline for May 2007 graduation for undergraduate and graduate students:

Friday, January 19, 2007

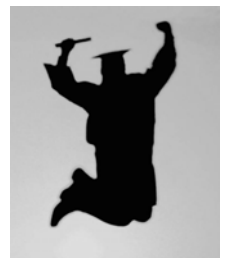
Undergraduate

To apply for graduation you must pay the \$30.00 graduation fee at the Bursar's payment window and bring the receipt to the CITE Dean's Office (112 GH) no later than Friday, January 19, 2007.

Graduate

To apply for graduation you need to go to your home campus and complete all needed paperwork no later than Friday, January 19, 2007.

- Huntington - you must pay the \$30.00 graduation fee at the Bursar's payment window and bring the receipt to your Graduate Dean's Office, 113 Old Main to complete an application for graduation.
- South Charleston - pay the \$30.00 registration fee at the First Floor of the Administration Building, and complete an application for graduation.



Course Highlights

Cyber Security

Continuing with the phase-in of Computer Science courses, CS 340 will be offered Spring 2007.

CS 340 Cyber-Security

The Cyber Security course is offered for the first time in the Computer Science curriculum. It is open to students who meet the pre-requisite of CS 320 (Internetworking). The course will provide students with hands-on skills in managing security at the network, desktop, and application levels. Students will explore vulnerabilities through the perspective of intruders and learn to use software tools to monitor the security of information technology resources and data. The course will use lecture, lab, and online techniques to deliver the course. Dr. Pat Logan is the course instructor and can be reached at 304/746-1951; loganp@marshall.edu.

Civil Engineering

The following courses are being offered as part of the Civil Engineering degree program, a collaborative effort of Marshall, WVU and WVUIT.

CVLE 453 Civil Engineering Projects

Principles of management, contracts, specifications, cost analysis; critical path method as applied to construction industry; completion of a comprehensive Civil Engineering project where several specialties of the field are involved. The course is being taught by Dr. Wael Zatar, and he can be reached at 304/696-6043; Zatar@marshall.edu.

CVLE 480 Sp Tp: Advanced Sanitary Engineering

Contemporary practices in sewage disposal and advanced waste treatment. Design of sedimentation units, biological treatment units, disinfection and advanced waste treatment units. The course is being taught by Dr. Richard McCormick, and he can be reached at 304/696-6049; mccormickr@marshall.edu.

Introduction to Safety (Int'l)

Safety 235 Introduction to Safety (International Course)

This course is a great 3 credit hour class to consider for a number of reasons. First of all it provides a background to safety as profession for students considering the field of safety engineering/ industrial hygiene or graduate school. Second it is an International elective which meets Marshall Plan requirements!

Areas covered in the course include: Occupational Safety and Health, basics of safety standards and OSHA, vehicular and equipment safety, disasters and emergency preparedness. Six sections of SFT 235 are offered this spring. Consult the attached schedule for details.

Principles of Biological Waste Treatment

ENVE 616 Principles of Biological Waste Treatment (MSE or MS ES elective)

Most wastewater treatment plants in the United States employ some form of biological treatment as part of their treatment process. This course will examine the analysis and design of the complete wastewater treatment process with an emphasis on biological waste treatment

processes. Included in the course will be topics such as microbial metabolism, oxygen transfer, biomass separation, sludge handling and treatment, as well as an introduction to advanced waste treatment processes. The course is being taught on Mondays from 7:00-9:20 pm in South Charleston by Dr. Rick McCormick. He can be reached at 304/696-6049; mccormickr@marshall.edu.

Course Highlights continued

Environmental Science Electives - *new courses*

ES 675 Brownfields (MS ES or MSE elective)

The course introduces students to the foundations of brownfields redevelopment as well as the science and applied technology of waste site cleanup. The course connects brownfields redevelopment to broader issues in environmental policy and planning such as environmental justice and sustainable development. The course is offered on Thursdays from 6:50-9:10 pm in both Huntington and South Charleston through videolink. Please contact Dr. Scott Simonton, MS ES Program Coordinator, with any questions you may have. He can be reached at 304/746-2045; Simonton@marshall.edu.

ES 665 Water Resource Management (MS ES or MSE elective)

This course surveys the network of processes that govern the earth's hydrologic cycle as well as the human activities which affect that cycle. It is not a strictly quantitative course in surface water and groundwater hydrodynamics; instead, it seeks to provide an integrated science/management/policy approach to water resource issues. The course is offered on Wednesdays from 6:50-9:10 pm in both Huntington and South Charleston through videolink. The course is taught by Dr. Scott Simonton. He can be reached at 304/746-2045; Simonton@marshall.edu.

Toxicology and Epidemiology

SFT 651 – Toxicology & Epidemiology (MS SFT and MS ES)

The course will be an integrated learning opportunity focusing on *Critical Thinking*, *Creative Thinking*, and *Practical Thinking* skills. The course will include fundamental toxicological concepts including dose-response relationships, absorption-distribution-storage of toxins within the human body, biotransformation and elimination of toxins, and target organ toxicity. Teratogenesis, mutagenesis, carcinogenesis, toxicological risk assessment and disease prevention strategies will be



addressed. Epidemiological concepts will include basic measurement and observation methods, descriptive, cross-sectional, case-control, cohort, and experimental studies as well as statistical and multivariate analyses of occupational diseases. The course will provide the student with the knowledge and skills necessary to make rational decisions concerning toxic exposures and disease in the work environment. The course is offered in Huntington and South Charleston through the videolink on Wednesdays from 4:00-6:20 pm. It will be taught by Prof. Patrick Conlon, who can be reached at 304/696-3067; conlon@marshall.edu.

Information Systems Course Highlights



IS 631 Information Security

The Information Security course provides students with foundation knowledge in the discipline of security studies. The course will cover topics on security policy development, risk management, physical

security of facilities, disaster recovery, and incident response. Information security is a critical function for any business that must protect data such as healthcare, manufacturing, banking, insurance, and education. Students should have a background in information systems. The course is offered as a T-course, using the Vista WebCT platform. Dr. Pat Logan is the course instructor and can be reached at 304/746-1951;

loganp@marshall.edu.

IS 655 Multimedia and Electronic Dissemination

The Multimedia course will focus on a newly emerging area of interest: informatics. This is a multidisciplinary research area looking at the creation, processing, transmission and consumption of audio-visual data. Multimedia informatics stresses the applied usage, exploitation and adaptation of audio-visual data to the fields of medicine, entertainment, art, and business. The course will cover the entire chain of processing, from content authoring to media indexing of the archived content. Media informatics provides the basis for many practical applications, such as video conferencing, advanced digital TV and Internet services. Students should have a grounding in networks and web development. The course is offered online using the Vista Web CT platform. Dr. Pat Logan is the course instructor and can be reached at 304/746-1951; loganp@marshall.edu.



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304/696-5453

CITE - South Charleston Campus
325 Administration Building
MU Graduate College
100 Angus E. Peyton Drive
South Charleston, WV 25303-1600
1-800-642-9842, ext. 2041
Or
304/746-2041

www.marshall.edu/cite

On-CITE is edited by Elizabeth Hanrahan.
Suggestions for future articles are
encouraged and can be emailed to
Hanrahan@marshall.edu

REGISTRATION DATES

Advance Registration

11/6 – 12/12/06 For all currently registered students.
Payment must be received by due date on statement.
Registration after 12/4 will not receive a statement of fees
and payment is due by no later than 12/12.

Open Scheduling

11/20-12/12/06 For all admitted students. Registration
after 12/4 will not receive a statement of fees and payment
is due by no later than 12/12.

Registration suspended: 5:00 pm 12/12/06 until 12/27/06
at 12:01 am through myMU. University offices reopen
1/2/07.

12/27 - 12/29/06

Online Registration available, no statement of fees will be
mailed and payment due by 1/5/07.

Regular Registration

1/2/07 – 1/5/07

No statement of fees will be sent. Payment listed on
myMU must be received by close of business Friday, 1/5.

Late registration or Add/Drop

1/8-1/12/07

Payment is due date of registration.

Classes begin Monday, 1/8/07

MyMU Website

MyMU provides an integrated web site
where you can register for classes,
check your MU email, and update your
contact information.

You can also forward your Marshall
email account to another user account.
Since MU email is an important means
of communication, you should have a
process in place to check your MU
email.

Visit <http://mymu.marshall.edu>. Your
log in should be your log in for MILO.

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

mail:helpdesk@marshall.edu

Huntington:
Help Desk 696-3200

South Charleston:
746-1976 or 746-2056

The following identification is required to
access the WWW registration systems:
Marshall University Identification Number:
This is a 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 - use the web!

