



# On - CITE

## Meet the CITE Personnel:

### Dr. Tom Hankins

*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. Tom Hankins, Information Systems Program Coordinator, is profiled in his own words.*

In July of 1973 the West Virginia College of Graduate Studies hired me as a geographer just completing a Ph.D. from Clark University. For the previous 12 years I had moved around often: 3 years working on a master's degree at the University of Chicago; 2 years teaching geography as a Peace Corps volunteer at Haile Sellassie I University in Addis Ababa, Ethiopia; 2 years working on state planning support at the Office of Research and Development in WVU's Appalachian Center; 2 years studying farming practices in Sukumaland, Tanzania for the University of Dar es Salaam; and then 3 more years of graduate study at Clark in Worcester, Massachusetts.



My assignment at the College was to teach environmental courses and prepare a proposal for a new master's program in environmental studies. With the help of colleagues and others in the community, the proposal was approved by the Board of Regents and the new program began in 1976 with three concentrations: air pollution control, water pollution control, and environmental planning and management. I was responsible for the third concentration and taught a variety of courses including urban, land use, and environmental planning, urban and regional systems, environmental impact statement preparation, remote sensing and map use, and water resource planning.

In the early 1980's enrollment in the Environmental Studies Program declined so much that Bill Crockett, our Dean at the time, suggested I teach some courses that students were willing to

take. Having a bachelor's degree in math and some knowledge of computer programming, I began learning PL/1 and soon thereafter to teach Information Systems 500 and 510.

To teach more than PL/1 required major retooling on my part. Most every summer and often during the regular semesters I took and still take courses at the National Computer Educators' Institute and from providers like Learning Tree. These have equipped me to offer courses in networking and databases and to add new courses to the Information Systems Program's curriculum such as multimedia, Prolog, artificial intelligence, expert systems, GIS, and web-based database development. Since the mid-1980's my teaching has been almost entirely in Information Systems where I serve as Program Coordinator.

The retooling courses also provided the opportunity to work with colleagues from other institutions and with

Inside this issue:	
Exploring Engineering Academy	2
Summer Courses - Insert	
Summer Registration Dates	3
Updating a Plan of Study	3
Graduate Offerings in Portsmouth, OH	3
Summer Course Descriptions	4
Registration Dates & Web and MILO Registration	6



## Exploring Engineering Academy

During the summer of 2002, Marshall University and the College of Information Technology and Engineering will host the second annual Exploring Engineering: Academy of Excellence (EEAE). The Academy will be held from July 14 to July 19.

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. A description of the Academy, pictures of last year's participants engaged in various activities, and a list of sponsors to date can be found at our web site [www.marshall.edu/eeae](http://www.marshall.edu/eeae).

During the 2001 Academy, students had an opportunity to interact with engineers from a variety of disciplines. In addition to engineers working for area businesses and industries, government agencies, and consulting firms, there were two featured speakers. Dr. Heidi Burch, a Ph.D. Chemical Engineering graduate from M.I.T. spoke about her research on photonic polymers, and Mr. Joe Sanford, a NASA Flight Systems Design Engineer at the Marshall Space Flight Center, described his experiences and engineering opportunities as a NASA engineer.

The Academy closed with a banquet attended by students, parents, Academy staff, and

sponsors. The banquet speaker was Dr. Sarah Denman, Provost for Academic Affairs, who gave an inspiring talk on the importance of education.

EEAE 2001 was possible only through the generous support of 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 2001 Academy sponsors listed on the EEAW web site.

## CITE Personnel: Dr. Tom Hankins continued from page 1

publishers in preparing textbooks. Penny Fanzone, Carl Diekhans, and I wrote 3 BASIC texts together and Tom Luce and I wrote a Prolog text.

In the years before Teays Valley became suburban, I grew up on a farm that is now Exit 39 of I-64 and attended Hurricane Elementary and later Hurricane High School. Following graduation I went to Denison University and from there on to Chicago. Returning here to live in 1973 I searched for a farm to replace the one taken by I-64 and found a beautiful one adjoining Eighteen Mile Creek near Buffalo. There I raised cattle, corn, and hay for several years. The farm served as my own environmental planning laboratory. Although we still own the property, my wife, Linda, son, Andrew, and I moved to Hurricane

last year, near my old, but no longer standing, schools. Linda's daughter, Betty, joined us this spring to take courses at Marshall. At home, arranging visits with our 10 children and 4 grandchildren scattered from Chile, to Texas, to Ohio, to DC consumes most of our time. Most days I work out at the Tri-County Y, but when the weather is good the exercise I actually enjoy is biking along Putnam County's back roads. Members of the congregations of the Buffalo and Forrest Burdette United Methodist Churches and the Kanawha Valley Emmaus Community are our extended family.

In addition to regular community activities as a member of the Putnam County Planning Commission and the Putnam Port Authority, I'm spending a lot of time

these days developing a web portal for the Association of American Geographers called Places OnLine. You can visit Places at [www.placesonline.org](http://www.placesonline.org). I also maintain the Forrest Burdette web site at [www.fbmmc.org](http://www.fbmmc.org). A project for this summer is to finish work on a web site called Exit 39.

I want to use this space to offer thanks to past and present Graduate College students. I marvel at your dedication and perseverance and greatly appreciate the knowledge and good humor you bring to the classroom. It has been rare a privilege to work with so many exceptional men and women. I'm looking forward to the classes yet to come.



## Summer Registration - check the class dates carefully!

**Monday, 3/25** Advance registration is open to all currently enrolled students  
**Monday 4/1** 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(5/13-6/7):

No invoices will be sent for registration after April 29  
 Payment is due no later than May 10  
 Late Registration May 13; payment due that day

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

No invoices will be sent for registration after April 29  
 Payment is due no later than May 14  
 Late Registration May 15; payment due that day

### Session B Term 3 (6/27-8/9):

No invoices will be sent for registration after June 14  
 Payment is due no later than June 26  
 Late Registration June 27; payment due that day

### Session C: Dates for SFT 490 & 650 only (6/10-8/16):

No invoices will be sent for registration after May 31  
 Payment due no later than June 10  
 Late Registration June 10; payment due that day



## Updating a Graduate Plan of Study

See an elective course you'd like to take that was not listed on your approved Plan of Study?

If you need to update your Plan of Study, the most efficient way is to send an email to your faculty advisor requesting approval to replace a course currently listed on your Plan of Study.

Should your advisor approve this update, a confirming email can be sent from the advisor to the Office of the Graduate Dean indicating the advisor's approval.

The Plan of Study is just what the title states — a plan. It can be updated and revised with advisor approval.

Review the offerings for Spring 2002 and what is listed on your Plan of Study for Spring, and revise your Plan of Study now.

*Reminder: Each CITE student must have a Plan of Study on file no later than the completion of the ninth credit hour of graduate work.*

## 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 are offering courses 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.

Summer 2002 offerings at Shawnee State University will be EM 660 Project Management and SFT 647 Industrial Hygiene.

For more information about these courses and future offerings at SSU, please contact Dr. Tony Szwiłski, Environmental Science and Safety Technology Division Chair. He can be reached at 696-5457; [szwiłski@marshall.edu](mailto:szwiłski@marshall.edu).



**Application Deadline for July Graduation is Friday, June 14, 2002**  
**Application Deadline for August Graduation is Friday, July 19, 2002**



## YES - IS 600 is a Required IS course

There has been some confusion as to whether or not IS 600 "Management Information Systems" is a required course in the master's in Information Systems degree program. The course was left out of the 2000-2002 Graduate Catalog description. However, IS 600 is a required course and should be taken by IS students. Please consult your faculty advisor for more details.

## Summer Courses

**IS 500 & 510 - Computer Systems and Structured Programming I and II** courses will provide introductory and advanced topics using Visual Basic. IS 500 is open to anyone with an accredited undergraduate degree and is being offered in South Charleston during Session B Term 2 (5/15-6/26) on Tuesdays and Thursdays from 6:00-9:00 pm.

IS 510 has IS 500 as a Prerequisite and is offered Tuesdays and Thursdays from 6:00 –9:00 pm in Huntington during Session B Term 3 (6/27 - 8/9). Please contact your advisor if more information is needed about these two courses.

### IS 600—Management Information Systems

The course examines personal, work group, and enterprise information systems with respect to their value, their components, and the process of developing them. There are no course prerequisites. Course is being taught on Mondays and Wednesdays from 6:00-9:00 pm during Session B Term 2 (5/15-6/26) in Huntington and South Charleston though use of the videolink. Dr. Tom Hankins, IS Program Coordinator is the course instructor. He can be reached at 746-2044; email: thankins@marshall.edu.

### IS 625 Software Engineering

Covers the process of developing complex software products. Includes the software life cycle, project management, object oriented methods, and project life cycle phases. The concepts, methods, and tools learned from the course will be applied in a class project. Course prerequisite is IS 500 or equivalent. The course will be taught by Dr. Herbert Tesser, and is offered in Huntington on Tuesdays and Thursdays from 6:00-9:00 pm during

Session B Term 3 (6/27-8/9). Dr. Tesser can be reached at 696-2696; tesser@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 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 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 650: Object Oriented Programming with C++

In the last 10 years the three languages most often used for "industrial strength" computer programming are Visual Basic, C++, and Java. Students entering the IS Program at CITE not having prior introduction to programming take the IS 500-510 sequence. Knowing the importance of C++ and Java in the job market, students have often asked why courses on these languages were not being offered. Thus the impetus for the development of the new course in C++, in fact, comes from the students themselves.

In the first 3 or 4 sessions the introductory syntax and semantics of

C++ will be covered. Then more powerful aspects like Pointers, Classes, and Templates will be tackled. Fascinating aspects of OOP languages like OverLoading, Inheritance, as well as Virtual Functions and Polymorphism will also be studied.

Professor Jamil Chaudri will teach the course, and he plans to use the textbook by Deitel and Deitel. The course will be offered in South Charleston during Session B Term 2 (5/15-6/26) on Tuesdays and Thursdays from 6:00-9:00 pm. Dr. Chaudri can be reached at 696-2694; email: chaudri@marshall.edu.

### New Course

#### IS 651 Data Warehousing

This course provides an introduction to data warehousing and data mining and the basic concepts that underlie these rapidly developing new fields. The course starts with an introduction to what is data warehousing and discusses the characteristics of the applications that are candidates for data warehousing. Data warehousing concepts are reviewed such as data quality, data cleansing and integration, data reduction, data classification and prediction, data retrieval techniques, etc.

In the data mining area, a number of the techniques used to retrieve and analyze data from the data warehouse are analyzed. OLAP (On Line Analytical Processing) is the primary retrieval methodology used in the class although other retrieval software is discussed. Each student is expected to complete a research project for presentation to the class. In the project, the student selects an application for data warehousing, designs the storage process for that application,

## Summer Courses continued

and determines the retrieval and analysis methodologies that are required.

Course is being offered on Mondays and Wednesdays from 6:00-9:00 pm in South Charleston during Session B Term 3 (6/27 - 8/9). Asst. Prof. John Biros is teaching the course and can be reached at 746-1941; email: jbiros@marshall.edu.

### **EM 660 Project Management**

Course is being offered this summer due to popular demand. It provides the student with a practical knowledge of how to integrate effectively the functional efforts of many in the execution of programs and projects. Emphasis is placed on working with people, setting good project objectives, and making effective plans. The course is being offered on Tuesdays and Thursdays from 5:00-8:00 pm in South Charleston during Session B Term 3 (6/27-8/9). Dr. Eldon Larsen is the instructor and can be reached at 746-2047; larsene@marshall.edu.

### **ES 651 Environmental**

**Microbiology** Microbiology of the environment; ecology of the microbial cell; microbial ecosystems; the microbe's interaction with other micro-organisms and macro-organisms; how micro-organisms obtain nutrients, and their effect on the environment. Emphasis will be placed on environmental biocontrols/ bioremediation, and microbial mechanisms that hurt and/or help the environment. (PR: General biology and general chemistry or consent) Course is being taught by Dr. Scott Simonton, on Tuesdays and Thursdays from 6:00-9:00 pm during Session B Term 3 (6/27-8/9). Dr. Simonton can be reached at 746-2045; email: simonton@marshall.edu

**SFT 630-Current Literature and Research in Occupational Safety and Health** is an analysis and study of selected research articles concerning significant topics in the field of occupational safety and health. The focus of this course is to develop skills in researching and obtaining appropriate information about safety

and health issues of concern. Students will be able to gather and validate information, and identify the most critical aspects of safety and health information to make improved decisions. Also, the students will be required to develop a basic understanding of OSHA's General Industry Standards (29 CFR 1910). This course is open to safety and non-safety majors. This course is being taught by Dr. Allan Stern in Huntington during Session A ( 5/13-6/7) on Mondays, Wednesday and Thursdays from 5:00-7:00 pm. Dr. Stern can be contacted at 696-3069; email: stern@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 we have 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 from 6/10 - 8/16. Please contact Dr. Allen Stern, at 696-3069; email:stern@marshall.edu for permission to register for SFT 490 or 650.

### **TE 698 - Final Project Formulation**

This is a required course for all students in the following masters programs: Engineering, Environmental Science, and Information Systems. Students develop their comprehensive project proposal during this course, and are to receive advisor approval for the project. The course is being offered during Session B Term 2 ( 5/15-6/26) on Mondays and Wednesdays from 6:00-9:00 pm, and is graded S/U. Prof. John Biros is teaching the course and can be reached at 746-1941; email: jbiros@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 (6/27 - 8/9). 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.

### **New Course**

#### **TM 640 - Intelligent Transportation Systems (ITS)**

The course provides an introduction to ITS. It covers transport systems that apply information, communications, and control technologies to improve the operation of transport networks. The three main features of ITS: information, communication, and integration will be described and outlined. These features can be coordinated successfully, and by doing so help travelers and transportation professionals make better decisions. The course will include lecture and hands on use of industry-accepted software. The course is being offered on Tuesdays and Thursdays from 6:00 –9:00 in South Charleston 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.

#### **TM 650 - Human Resources in Technical Organizations**

presents issues, theories, and procedures associated with 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 2 (5/15-6/26). Dr. Eldon Larsen is the instructor and can be reached at 746-2047; larsene@marshall.edu.



## College of Information Technology and Engineering

CITE - Huntington Campus  
112 Gullickson Hall  
Marshall University  
Huntington, WV 25755-2586  
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](http://www.marshall.edu/cite)

Non-Profit Org  
U.S. Postage  
PAID  
Permit No. 206  
Huntington, WV

## MILO Registration—Phone or Web

Students may register for classes in person, by touch-tone telephone, or using the web. Payment (check or credit card) for courses can also be made using MILO. Please consult the printed schedule for specific deadlines.

CITE students who wish to register in person may do so at the Registration Office in Old Main B-1 in Huntington, or at the Admissions and Registration Office located on the first floor of the Administration Building in South Charleston.

Students can register by touch-tone telephone by calling 304/696 – MILO (6456) or 1-800-696-MILO. Students may also register on the World Wide Web at the following address: <http://www.marshall.edu/milo/>. The MILO registration system is usually available 24 hours a day Monday through Thursday and until 9:00 pm on Fridays. MILO registration is unavailable from 9:00 pm Friday until 1:00 pm Sunday. Please note that on the dates that registration is suspended, you will not be able to register by MILO or WWW.

The following identification is required to access the touch-tone telephone and WWW registration systems:

Student Identification Number: This is usually your Social Security Number, or 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 once they access their personal account.

You may also use MILO phone to pay tuition and fees by credit card. If you have any questions concerning tuition charges please contact the Office of the Bursar at 304/696-6620.

