



On - CITE

New CITE Dean

Dr. Betsy Ennis Dulin, Associate Dean of Marshall University's College of Information Technology and Engineering (CITE), has been selected to lead the college as its new Dean.

Dr. Dulin, a seven-year member of the Marshall University faculty, is a Registered Professional Engineer and Licensed Attorney who has worked in the fields of environmental compliance and engineering. She is a former member of the West Virginia Environmental Quality Board and currently serves on the boards of the National Institute for Chemical Studies and the West Virginia Chemical Alliance Zone.

"Marshall's College of Information Technology and Engineering has grown rapidly during the last several years, and I look forward to an even more exciting future for the college as we continue to respond to the changing needs of the state, region, and beyond," Dulin said.

Dean Dulin will be maintaining offices on both the Huntington and South Charleston campuses.

A native of eastern Kanawha County, Dulin earned a

Bachelor's Degree in Civil Engineering from the West Virginia Institute of Technology and a Master's Degree in Environmental Engineering from the Virginia Polytechnic Institute. She completed her education at Washington and Lee University, where she earned her Juris Doctor degree. Dulin and her husband, John, reside in Charleston with their sons, Jack and Sam.

Dr. James Hooper, the CITE Dean since the formation of the College in 1998, is stepping down from that position effective August 17, 2002.

In addition to holding the position of CITE Dean, Dr. Hooper also served as the Vice President for Research from 1996 until September, 2001. He continues as Director of the Center for Environmental, Geo-technical and Applied Sciences, an affiliated organization of CITE, and as Weisberg Professor of Software Engineering. He will be on sabbatical during the Fall 2002 semester. Dr. Hooper was with NASA Marshall Space Flight Center for 18 years prior to joining academia full-time.

He was a faculty member at the University of Alabama-Huntsville for 11 years before beginning his association at Marshall as a visiting Professor in 1991. He has two masters; a M.S. in Mathematics from Auburn University, and a M.S. in Computer Science from the University of Missouri-Rolla. His Ph.D. is in Computer and Information Sciences from the University of Alabama-Birmingham.

Dr. Hooper stated " I have very much enjoyed my years at Marshall, and the opportunities I have had to pursue new organizational and programmatic initiatives, working with a team of dedicated professionals. With lessened management duties, I now look forward to having more time to pursue personal research and service interests. I extend congratulations and best wishes to Dr. Betsy Dulin as the new CITE Dean."

Dr. Hooper and his wife Mona reside in Huntington, and take frequent trips to visit their 3 children and 6 grandchildren in Alabama and Tennessee.

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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 leads toward either the M.S. in Environmental Science or the M.S. in Safety.

Fall 2002 offerings at Shawnee State University will be:

ES 620 "Environmental Management Systems", offered on Wednesday from 6:00-9:00 pm. The course examines the role and responsibilities of the environmental manager. It covers the principal objectives, components and planning of an effective environmental management system (EMS), which is an integral part of an organization's management structure. ISO14000 EMS specifications and standards such as environmental auditing;

environmental performance evaluation; life-cycle assessment and environmental labeling; and environmental health and safety management aspects will be covered.

SFT 540 "Industrial Fire Protection" offered on Thursdays from 6:00-9:00 pm. An introductory course that explores the relationship between engineering and fire prevention. Topics for discussion will include: sprinkler systems, water supplies, behavior and nature of fire, materials, fire protection and extinguishers. By the end of the course, the student should have enough knowledge to be able to pass the fire protection area of the Certified Safety Professional exam. Additionally, the student will understand the value and necessity of fire protection within the industrial setting.

SFT 565 "Accident Investigation" offered on Fridays from 6:00-9:00 pm. This course is

designed to acquaint the student with the modern methods of accident investigation and prevention. The student will learn the importance of investigations for near-miss incidents and accidents, both small and large. In addition, it will cover the techniques needed to review the work of other investigators and develop your own investigations. Moreover, the course will develop the skills needed to insure corrective actions to prevent recurrence of incidents investigated.

Classes will begin on Wednesday, September 5, 2002.

For more information about these courses please contact Dr. Tony Szwilski, Environmental Science and Safety Technology Division Chair. He can be reached at 696-5457; szwilski@marshall.edu.

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 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 eighteenth credit hour of graduate work.

Mark your calendars - Oct. 19 is MU Homecoming and CITE plans to have it's annual tent luncheon at "Herd Village" otherwise known as Lefty Rollins Field. More details will be available as the schedule is finalized.

Summer Engineering Academy

During early July, thirty two high school students from around the region participated in the recent Exploring Engineering: Academy of Excellence. Engineering faculty from CITE and practicing engineers from the region, including the U.S. Army Corps of Engineers and U.S. Filter, organized the Academy for students going into their Junior year of high School.

During the week long Academy, students worked in teams on a trebuchet design competition, completed a team project concerning Intelligent Transportation Systems using Lego Robotics, toured the John Amos Power Plant and the New River Gorge Bridge, conducted environmental sampling and analysis, and talked with practicing engineers from a variety of disciplines.

In addition, twenty-one High School science teachers participated in several days of the Engineering Academy activities as part of their participation in the Infinity Project. The Infinity Project is an engineering education program sponsored by the Southern Methodist University School of Engineering. The project was developed in order to provide high school students greater exposure to engineering and technology, and helps math, science, and technology teachers incorporate modern engineering concepts into the high school curricula.

Please visit the Academy web site at www.marshall.edu/eeae/ to see a more detailed description of academy activities and www.infinity-project.org for more information about the Infinity Project

Academy sponsors for 2002 included CITE, the Nick J. Rahall, II Appalachian Transportation Institute, DOW, Huntington Post of the Society of American Military Engineers, WV EPSCoR, National Science Foundation, Huntington District of the US Army Corps of Engineers, Flexsys, Kanawha Stone/Terradon, Thrasher Engineering, GAI Consultants, State Electric Supply Company, Chester Engineers/US Filter, WV Section of American Society of Civil Engineers, and Gaddy Engineering.”

High School students interested in participating in next year’s Academy should contact Dr. Betsy Dulin, CITE Dean, 746-2078; bdulin@msmarshall.edu, or Dr. Bill Pierson, Professor of Engineering, 696-2695; pierson@marshall.edu.

Dr. Michael Robinson departs

Dr. Michael Robinson, Assistant Professor of Engineering has accepted a position with Rose-Hulman Institute of Technology in Terre Haute, Indiana. He will be an Assistant Professor of Civil and Environmental Engineering, and also in charge of the MS in Environmental Engineering program. We will miss Michael, and we wish Michael and his wife Ruby all the best in their new location.

Graduate Admission criteria changes

Please visit the CITE web site if you are interested in applying to one of the five masters programs offered by CITE. Admission criteria for three of the programs have been modified.

Application Deadline for December Graduation is Sept. 20, 2002



Air Pollution Control Engineering

ENVE 650 - Air Pollution Control Engineering

Air Pollution Control Engineering is an introduction to the engineering principles and technologies applicable to the control of gaseous and particulate emissions. Topics will include the measurement and control of air pollution, engineering design calculations, equipment selection and process design. The course is offered in South Charleston on Wednesdays from 6:30-9:00 pm. Dr. Bill O'Brian was previously an engineering faculty member at the university of Illinois at Carbondale.

Engineering Review courses

CITE is offering the Fundamentals of Engineering review course in South Charleston beginning August 27. Please contact Barbara Lanham at 746-2042; blamham@marshall.edu for more details about this and other review courses.

Environmental Science and Safety Graduate Course Highlights

ES 610 Environmental Sampling Practice

covers current practice in environmental testing and monitoring. We will discuss the concepts and basic procedures of sampling and analyzing environmental materials. Among the topics are sampling plans; procedures for sampling air, water, soil, and waste; data interpretation; sample handling and preservation; health and safety considerations; and documentation requirements. The course will be offered at Hurricane High School on Wednesdays from 6:30-9:00 pm. The course is being taught by Dr. Scott Simonton, Asst. Prof. of Environmental Science. He can be reached at 746-2045; Simonton@marshall.edu.

ES 652 - Hydrology and Sedimentology

is an introduction to surface water hydrology and its relevant impacts on the environment in areas such as sediment and erosion control, design of retention / detention ponds, storm water runoff, and best management practices. The course will provide a review of various hydrology topics such as precipitation, infiltration, evapotranspiration, surface runoff,

and open channel flow. The course will be offered in Huntington and South Charleston through the videolink on Thursdays from 6:50-9:10 pm. The course is being taught by Dr. Scott Simonton, Asst. Prof. of Environmental Science. He can be reached at 746-2045; Simonton@marshall.edu.

Process Safety Management SFT 489/589; CHE 675

The course is designed to teach and apply the fundamentals of chemical process safety. The major thrust of the course is to acquaint the student with the techniques for controlling industrial hazards, primarily those in the chemical industry. The techniques learned here and the information covered are applicable to other industrial situations, not just the chemical industry. The recognition, evaluation and control of hazards is fundamental to the safety profession and all students need this ability. The course is being co-listed as a Safety course, and a Chemical Engineering course. It will be offered through the videolink in both Huntington and South Charleston on Wednesdays

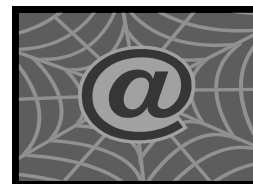
from 4:00-6:20 pm. It will be taught by Dr. John Singley, Professor of Safety. He can be reached at 696-3067; singley@marshall.edu.

SFT 651 Industrial Toxicology

will emphasize an understanding of toxicology and concentrate on general principles and examples of these principles. The student will learn about toxicology concepts, dose-response relationship, how toxicants are absorbed, the distribution and storage of toxicants, the toxicology of target organs, teratogenesis, mutagenesis and carcinogenesis, and risk assessment. The course will provide the student with the knowledge necessary to make rational decisions about the toxicology of various agents. The course will be offered through the videolink in both Huntington and South Charleston on Mondays from 4:00-6:20 pm. It will be taught by Dr. John Singley, Professor of Safety. He can be reached at 696-3067; singley@marshall.edu.



Object Oriented Design with UML



IS 650: Special Topics – Object Oriented Design with UML. This course provides an overview of the history of object modeling techniques and focuses on the evolution and widespread adoption of the Unified Modeling Language (UML) as a tool for communicating software design. The plan of study includes an introduction to object technology key concepts and terminology and an explanation of UML process concepts, UML strengths and weaknesses, and UML notation. Course exercises focus on understanding, creating, and using the UML models to specify

system behavior and structure, to facilitate project team communication, and to serve as system decision documentation during the software development process. The course is offered in South Charleston on Mondays from 6:30-9:00pm.

The course is being taught by Ms. Nancy Shifflet, who is lead applications/systems analyst in the pipeline production group information technology real time business analysis group at Columbia Gas Transmission - a Nisource Company. In that position, she works on projects related to providing real time data,

primarily Supervisory Control And Data Acquisition (SCADA) and electronic measurement, to corporate users. Ms. Shifflet holds an AAS degree in mechanical engineering technology from Central Ohio Technical College, a BS degree in industrial technology from Southern Illinois University-Carbondale and an MS degree in management information systems from West Virginia Graduate College. Currently, she is a PhD candidate at Nova Southeastern University. Ms. Shifflet can be reached at nshifflet@charter.net

Control Systems and Chemical Engineering Courses

Please contact Dr. Bill Crockett, Distinguished Professor of Engineering, regarding the courses described below. He can be reached at 304/746-2040; bcrockett@marshall.edu.

CHE 630- Applied Engineering Mathematics Mathematical modeling of applied problems, analytical solutions of ordinary differential equations, series solutions, Laplace transforms, analytical solutions of partial differential equations. Students will meet with the instructor only as needed. This course is recommended for all engineers.

CHE 632-OPTIMIZATION OF ENGINEERING SYSTEMS To apply optimization in the chemical industries, both the theory and practice of optimization must be understood. You will study the techniques and software that offers the most potential for success and gives reliable results. Students will read the chapters on the various topics. The instructor will meet with the students when they request it; otherwise the course will be by telephone and computer using WebCT.



CSE 611-STATE SPACE CONTROL State space representation of dynamic systems; dynamics of linear systems; frequency domain analysis; controllability and observability; shaping the dynamic response; linear observers and compensator design; linear, quadratic optimal control.

CSE 630—OPTIMAL CONTROL General theory of optimal control; calculus of variations; Pontryagin's maximum principle; Hamilton-Jacobi theory; application of optimal control theory to design of feedback systems, using several performance criteria; other topics that may arise.

ChE 645 -Chemical Engineering Kinetics Review of homogeneous kinetics, including kinetics of homogeneous reactions and interpretation of reactor data; reactor design for single and for multiple reactions. Nonideal flow and models.



College of Information Technology and Engineering

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Marshall University
Huntington, WV 25755-2586
304/696-5453

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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

REGISTRATION DATES

Regular Registration:

August 19-23

No statement of fees will be sent for regular registration and payment is due by close of business on August 23.

Late Registration/Sched Adj

August 26-30

No statement of fees will be sent for regular registration and payment is due on the date of registration.

MILO Registration—Phone or Web

Students may register for classes in person, by touch-tone telephone, or on the World Wide Web (WWW). Please consult the printed schedule for 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.

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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.

