



Retirement of Dr. Bill Kroesser

Dr. F. William "Bill" Kroesser will be retiring from Marshall University in mid August. We want to take this opportunity to thank him for his many contributions to the institution, and wish him much success in his future endeavors. Below is a profile of Bill Kroesser in his own words.

I came here in 1974, when the environmental movement was in a growth spurt. I liked the practical applications of theory. Here I found the older students to be a pleasure to work with. They would bring stories about problems at work, and together we would look for academic solutions. I learned so much that I wondered whether I should be paying tuition to my students!

I became interested in environmental problems in 1964 when "scientist and citizen" groups first emerged. These scientists and engineers volunteered to help citizen groups understand and solve problems more complex than those that layman could handle. As environmental regulations proliferated, engineers in industry also needed help, and my avocation came into enough demand to take this job.

The "student-friendly" style of teaching here fit perfectly with the needs in my field. At traditional schools, faculty have a great deal of knowledge, gained by doing research, developing theory, and critiquing work in progress. Presumably, the faculty could provide the theory needed to solve everyday problems faced by students, if they knew what those problems were. But do they know what is going on at a local chemical manufacturing facility, a local analytical laboratory or at a

regulatory agency? Yes, they know the traditional problems, and can help with solutions. But in the 1970's, we were rethinking almost every aspect of emissions, environmental quality, and exposure. Also, inflation was changing all of the "rules of thumb" that we had learned. At this institution, I had the equivalent of a spy in industry. I had older, experienced students who could tell me what were the most pressing problems, and what kind of teaching was needed.

Creating those new topics, courses and programs was a daunting task. Almost every environmental problem was new to us, and soon almost every course we created hadn't existed anywhere in the country until then. It's hard to teach a new subject, but I could always count on one student in the group to have experience in the subject at hand, and a willingness to share, as long as I would be open to such help and guidance. Then I could apply appropriate theory, and teach the rest of the group.

Each time a course was taught, it was refined, expanded on, and updated based on student comments, guest lecturers, and material from professional society meetings. For you, the student, this means that the courses you choose from have been fine tuned to provide for the needs of West Virginia environmental professionals.

You might want to look at the newest of our courses to see what are emerging issues are today. One growing field is Geographic Information Systems. Environmental agencies are using or planning to use GIS for the retrieval of critical environmental data.

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B.S. in Safety Technology Curriculum Revised

The undergraduate safety curriculum has been revamped making it more relevant and 'user friendly', while still meeting ABET accreditation requirements. First, the Alpha Designator for undergraduate and graduate courses has been changed from SED to SFT as predicated with our move from the College of Education to CITE. Furthermore, the requirement for Calculus (MTH 140), Statics (EM 213) and Dynamics (EM 214) has been removed and the chemistry course (CHM 204) added. The change

provides more curriculum choices for students giving them greater flexibility for their plans of study. The basic curriculum for the Safety core is unchanged. Another change of significance is reduction of the overall GPA requirement for graduation from 2.5 to 2.0. The 2.5 GPA requirement for the safety option area is unchanged. All students will receive a letter advising them of the curriculum changes. For further information students are encouraged to contact their advisors.

Adult Part-time Undergrad Student Grants now available

The Higher education adult part-time student (HEAPS) Grant program is now available at MU. The purpose of the HEAPS Grant Program is to encourage and enable needy West Virginia students, who have been out of high school for at least two years and who desire to continue their education on a part-time basis at the post-secondary level. HEAPS grants are eligible for renewal consideration until the program of study is completed but not to exceed an additional nine years beyond the first year of the award.

For students enrolled at a public college or university, the maximum grant is based on the actual per credit hour tuition and fees charges. For students enrolled in other eligible institutions, the award is based upon the average per credit hour tuition and fees charged by all of the *public* undergraduate institutions of higher education during the previous year. Total aid, including the HEAPS award, may not exceed the recipient's total cost of education as defined by the institution being attended.

For more information about HEAPS please visit <http://www.marshall.edu/sfa/aid.html> or contact the MU Financial Aid office.

The loss of Dr. Keith Barenklau

Dr. Keith Barenklau, former Professor and Program Coordinator of the Safety Technology undergraduate and graduate programs passed away on February 28, 2001. He had retired to League City Texas. We extend our sympathies to his family on their loss.

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Another emerging trend is that many environmental jobs have components of both environmental protection and safety. If you are in either of these programs, you can take courses in the other. We are attempting to coordinate the courses offered in the industrial hygiene and environmental science programs, and I predict that we will see a further integration of these two degrees soon.

Although I'll be retiring from the University in August, I hope to teach for Marshall occasionally, and perhaps be involved with the program in other ways. I have enjoyed these last 27 years. I will remain in this area, and could help students with ideas for comprehensive projects, career change strategy, and other questions that come up. If you'd like to chat, my e-mail then will be Bill_Kroesser@hotmail.com, and my phone number is in the Charleston phone book.

America's Infrastructure - what's the grade?

The following article was submitted by Dr. Michael Robinson:

Infrastructure - Our Nation's Skeleton

Much like the human skeleton, neglected until broken, America's infrastructure is beginning to show its age. According to the American Society of

Civil Engineers' (ASCE) 2001 Report Card for America's Infrastructure, our infrastructure graded a D+, up only slightly from the D earned in 1998's evaluation. Our infrastructure includes transportation (roads, bridges, transit, aviation, and navigable waters), waste disposal (solid and hazardous waste), water (drinking water and wastewater), schools, dams and energy. The report contains many

interesting details on our infrastructure, such as the average age of the nation's schools is 42 years or that since 1990 there has been an annual shortfall of 30% in the growth rate of power production capacity. Visit the ASCE web site at <http://www.asce.org/reportcard/> for the rest of the story.

New look for CITE web site

The College of Information Technology and Engineering (CITE) web site www.marshall.edu/cite has recently been redesigned and updated. Jonathan Thompson, the CITE Instructional Technologist has worked very hard to update the CITE site and it looks great! New curriculum updates, and deadline dates will be posted periodically on the web site. Take a few minutes and let us know what you think about the new look! Email us at cite@marshall.edu



Register and pay for courses ON-LINE

You can register for courses using MILO phone or Web to register. It saves a trip to campus, and sure beats standing in line to attempt to register! You already have a MILO account set up as an MU student so try the convenience of registering through the phone or web. Please see detailed MILO instructions on the last page of the newsletter.

Exceptions to MILO registration where registration in person is required: If you have not met a course prerequisite instructor permission will need to be obtained; if you are a first time freshman or transfer student; or if you

are on academic probation or suspension.

You can pay for the courses on-line. Go to www.marshall.edu/bursar and follow the instructions for a quick, easy and secure payment method. You may also make your payment by phone at 1-800-696-MILO or 1-304-696-MILO

Common mistakes in registering:

- Not consulting the faculty advisor to ensure that courses are taken in the most efficient order.
- Not paying for the course by the due date on the invoice, or when fees are due, and all courses are

dropped for non-payment.

- Not checking the course prerequisites to ensure that the PR have been met.
- Not verifying the course CRN and ending up in a French Studies undergraduate course when an Information Systems graduate course was needed. (Yes, this actually happened.)

Take a little bit of time to plan before you register, and pay on time - these basic tips can save you a few headaches later in the semester. So, take a few minutes and plan your registration!

Undergraduate Engineering courses are now ENGR

Undergraduate engineering courses which were previously listed as "EE - Electrical Engineering", "EG - Engineering", or "ENM - Engineering Mechanics" in the schedule and catalog are now listed in the fall schedule as "ENGR - Engineering". This change was made to correspond with the graduate alpha-designator for engineering. The new undergraduate catalog also reflects this change.

Below is a list of the courses which map the previous alpha-designator to the new alpha-designator.

Old course	Title	New Course
EG101	Engineering Graphics	ENGR101
EG101	Engineering Graphics	ENGR101
EG106	CAD Engineers and Scientists	ENGR106
EG108	Engineering Design	ENGR108
EG221	Engineering Economy	ENGR221
EG280-EG285	Special Topics	ENGR280-285
EG286-290	Independent Study	ENGR286-290
ENM213	Statics	ENGR213
ENM214	Dynamics	ENGR214
ENM215	Engineering Materials	ENGR215

If you have any questions concerning the new course alpha-designators please contact Dr. Bill Pierson, Pre-Engineering Coordinator, at 696-2695; pierson@marshall.edu.

Dr. Bill Pierson is moving

The Pre-Engineering department is moving (back) to Gullickson Hall room 3. The move is expected to be complete by June 1, 2001. The space will have a new look, so stop by and check it out.

Marshall University Hosts Summer Engineering Academy For High School Students

In cooperation with Learning for Life Exploring programs, and the Huntington post of the Society of American Military Engineers, Marshall University will host an "Exploring Engineering: Academy of Excellence" from July 8 through July 13, 2001, for students entering their junior year of high school in West Virginia, Ohio, and Kentucky.

Participants in the program will be encouraged to explore engineering as a potential field of study and career by participating in hands-on engineering activities, touring engineering-related facilities and organizations, and interacting with practicing engineers from all major engineering disciplines.

The program also will focus on skills important for success in the study and practice of engineering, such as problem-solving, team-building, project management, and communications. Current plans include activities in catapult-building, robotics, computer-aided design and manufacturing, environmental sampling/testing, and field trips to engineering projects and facilities. High school students also will have many opportunities to talk with practicing engineers and current graduate and undergraduate engineering students in a relaxed, informal setting.

Chaperoned accommodations will be provided in the Towers dormitories at Marshall University's

main campus in Huntington, West Virginia. Meals will be provided as part of academy registration. Due to the generosity of corporate and individual sponsors, academy registration is free to the 30 students selected based on the application criteria.

If you know a student who would like to apply for admission to the academy, or if you have an interest in encouraging young people to enter the field of engineering and would like to volunteer as a mentor for the academy, please contact us at eeae@marshall.edu, or obtain additional information and application forms from the website at www.marshall.edu/eeae.

Information Systems Huntington Offerings

Several Information Systems courses are being taught in Huntington this fall. The courses are:

IS 500 Computer systems and Structured Programming I 6:30-9:00 pm Thursdays

IS 600 Management Information Systems 6:50-9:10 pm Wednesdays

IS 605 Systems Analysis Techniques 4:00-6:20 pm Tuesdays

IS 621 Information Structures I 4:00-6:20 pm Thursdays

IS 655 Multimedia Production and Electronic Info. Dissemination 6:50-9:10 pm Mondays



Technology Management Courses

TM 610 - Technology and Innovation Management

The course focuses on managing the innovation process, producing streams of marketable products and services, and managing new and existing technology.

The impact of the new virtual economy and competitive pressures that are causing fundamental restructuring of organizations are also examined. Course is being offered at Hurricane High

School, in Putnam County on Mondays, from 6:30-9:00 pm. Dr. Tony Szwilski is the instructor, and he can be reached at 304/696-5457, email: szwilski@marshall.edu

TM 620 - Technology Planning covers the methods of technology planning, strategic management, and forecasting for use in technology intensive organizations are

discussed, including technology life cycles, and strategies for commercializing products. This course is being offered in Huntington and South Charleston though the videolink on Mondays, from 4:00 - 6:20 pm. The course is being taught by Dr. Bernie Gillespie, Coordinator of the TM program. He can be reached at 696-6007, email: gillespb@marshall.edu

Application Deadline For December 2001 Graduation

The Application Deadline for December 2001 graduation for undergraduate and graduate students is **Friday, September 14, 2001**

Undergraduate

To apply for graduation you must pay the \$30.00 graduation fee and bring the receipt to the CITE Dean's Office (112 GH) no later than Friday, September 14, 2001.

Graduate

To apply for graduation you need to go to your home campus and complete all needed paperwork no later than Friday, September 14, 2001. (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).

Env Science, Env Engr, and Safety Course Highlights

ES 646 - Dynamics of

Ecosystems covers species interaction; population, community and ecosystem ecology; productivity, nutrient cycling; physiological ecology; population dynamics; pollution and conservation; and aquatic, marine, and terrestrial

ecosystems. The course is being taught by Dr. Mindy Yeager, Adjunct Instructor. The course will be offered on Thursdays from 6:50-9:10 pm in Huntington and South Charleston through the videolink. For more information please contact Dr. Tony Szwilski, Division Chair at 696-5457, email: szwilski@marshall.edu.

ES 652 - SpTp: Solid and Hazardous Waste Management

The course will provide students with an improved view of the technological and managerial issues involved with waste management. ENVE 620 Solid Waste Management and ENVE 625 Hazardous Waste Management have been merged into a single new course ES 652 Solid and Hazardous Waste Management. The new course will benefit both environmental engineering and environmental science students. If you have any questions regarding the course please contact Dr.

Michael Robinson at 696-6049 or robinsonm@marshall.edu. The course is scheduled for videolink between Huntington and South Charleston on Thursdays from 4:00 - 6:20 pm.

*Ecosystem ecology,
productivity,
nutrient cycling...*

ES 662 - Environmental Policy

is an introduction to processes for formulation and development of environmental policy, including administrative procedure and policy process. Discussion of current environmental policy issues in relevant political, legal, social, and scientific contexts. Mr. Terry Clarke Esq., Adjunct Instructor, will be teaching the course on Tuesdays, from 6:50-9:10 pm in Huntington and South Charleston through the videolink. For more information please contact Dr. Tony Szwilski, Division Chair at 696-5457, email: szwilski@marshall.edu.

SFT 660 Human Factors in Accident Prevention

is a course concerned with the proper design of human machine systems that will optimize performance, health, and safety of the worker. The optimal design will help reduce, if not eliminate, accidents in the workplace. Students will be expected to not only master the subject matter, but also to apply critical reasoning in the solution of real-world problems. The course is

being taught in Huntington on Mondays, from 4:00-6:20 pm by Dr. Kumar Kittusamy, and he can be reached at 304/696-3071; email: kittusam@marshall.edu.

SFT 540 Industrial Fire Protection

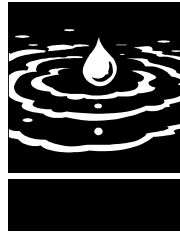
- a course which looks at the science and engineering of fire protection. Some topics of discussion will include: sprinkler systems, properties/characteristics of materials, water supplies and hydraulics and extinguisher systems and life safety. This is a required course for Occupational Safety and Health majors. The course will be offered on Mondays from 6:30-9:00 pm. Dr. Allan Stern is the instructor, and he can be reached at 696-3069; stern@marshall.edu.



Engineering Course Highlights

EM 660 - Project Management is being offered in Huntington and South Charleston this spring based on continued demand for the course. It is being taught in South Charleston on Tuesdays, from 6:30-9:00 pm, and in Huntington on Thursdays from 6:30 –9:00 pm. This is a required course for four of the five CITE masters programs.

ENVE 650 SpTp: Surface Water Quality Modeling - Dr. Michael Robinson will be teaching an exciting new course on Surface Water Quality Modeling this Fall. The course deals with contaminant fate and transport processes in surface waters and will focus on the use of computer modeling to study such processes. Students will have the opportunity to work with several water quality models, such as QUAL2E, during the course. The course is scheduled for Monday 6:30 - 9:00 in South



Charleston. In addition, the course will be offered in Beckley, WV. Interested students in the Beckley area need to contact Dr. Robinson at 696-6049 or robinsonm@marshall.edu.

ENGR 610 - Applied Statistics is a required course for both M.S. in Environmental Science and M.S.E. in Engineering Students. The course is a practical application of statistical techniques to decision-making, forecasting, optimization, and experimental design. Interpretation of data using central tendency and dispersion, t-test, F-test, variance analysis, correlation, and linear regression. The course is being offered on Wednesdays from 6:30-9:00 pm at Hurricane High School in Putnam County. Please contact Associate Dean and Engineering Division Chair Betsy Dulin at 746-2087 or bdulin@marshall.edu.

Operations Management offering in Parkersburg - not SC

IE 670 - Operations Management will be offered in Parkersburg for the Fall Semester, not South Charleston as the fall schedule indicates. The course is an examination of the quantitative and conceptual tools for generating goods and services in manufacturing and non-manufacturing organizations. Dr. Eldon Larsen is teaching the course on Mondays from 5:00-7:30 pm. Dr. Larsen can be reached at 746-2047; elarsen@marshall.edu.

CITE research update

Dr. Kumar Kittusamy has revised a chapter on "Ergonomics Programs" in the book, *Accident Prevention Manual for Business and Industry: Administration and Programs* (12th Edition), published by the National Safety Council, 2001. He is also continuing his research with the National Institute for Occupational Safety and Health (NIOSH)—Pittsburgh Research Lab (PRL), regarding "Reducing Injury Risk from Jolting/Jarring on Mobile Equipment in Construction and Agriculture." There are opportunities for graduate assistantships, interested students should contact Dr. Kittusamy at kittusam@marshall.edu; 696-3071.

Mr. Jonathan Thompson has recently completed follow-up work with the National Institute for Chemical Studies concerning development of a unified database for data analysis and reporting.

Mr. Thompson was also recently awarded a grant from the West Virginia Department of Health and Human Services to develop an automated document management system.



REMINDER:

Don't forget to pay your fees by the invoice date on your receipt. If you register after 4:30 pm Wednesday, August 1, you will not receive a statement of fees and payment should be made at the time of registration.



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

We're on the web!
www.marshall.edu/cite

Email: cite@marshall.edu

REGISTRATION DATES

Advance Registration for currently enrolled students:

April 16 - August 10

Advance Registration for admitted students:

April 30 - August 10

Advance Registration is suspended:

May 7-May 13

Regular Registration/ Schedule Adjustment:

August 13 - August 17

Classes begin:

Monday, August 20

Late Registration/ Schedule Adjustment:

August 20 - August 24

Need a course?

If you are still in search of a specific course after reviewing the offerings enclosed, please contact your division chair or your advisor. We welcome your input.

MIL O 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 p.m. on Fridays. MILO registration is unavailable from 9:00 p.m. Friday until 1:00 p.m. 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 or web 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.

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