

IET Informer

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Of Special Interest

- Kentucky Applied Technology Education Association Conference is Nov 7-8 in Louisville.
- ATEA Mississippi River and Gulf Region Conference is Nov 6-8 in Louisville.
- National Association of Industrial Technology Association Conference is Nov 19-22 in Nashville.

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Graduate Students Take Up The Slack Teach Classes Left Open By Departures

During registration week in August, the department unexpectedly received resignations from Dr. Eshan Sheybani and Instructor Giti Javidi. Their teaching loads included a total of eight classes and five of those had closed because they reached their maximum enrollments. With little time to react to the situation, Department Chair Dr. Ahmad Zargari asked several graduate students to fill the class openings. They all responded to the challenge.

Ms. Sharon Austin, a Florida native who served in the military, is teaching IET 120 Technology Systems at the MSU West Liberty satellite campus. (It is one of the early classes in the department's new Telecommunication and

Networking option.) Ms. Austin received a BS degree in IET and a Masters degree in Art. She will soon complete her MSIT.

Ms. Shirley Flinders from Maysville, is teaching in two IET areas. She is teaching a lab in GCT 102 Graphic Arts. She is also teaching both the lecture and lab sections of an EET 144 Network Fundamentals class. Additionally, she is teaching two lab sections of EET 141 Electrical Circuits. Ms. Flinders received a BS degree in IET and will receive her MSIT after she successfully defends her thesis.

Mr. Jason Noble, Instructor of Industrial Education and from Jackson, is

teaching three sections of IET 110 Fundamentals of Computer Technology. He has also assumed responsibility for directing the activities of the college's Multi-Media Resource Center located in the Lloyd Cassity Building, room LC 202. The MMRC checks out various types of multi-media equipment and has several on-site computers for student and faculty use.

Mr. Noble was the department's recipient of the 2003 Outstanding Graduate Student Award. He received a BS degree in IET and completed requirements for his MSIT degree following the successful defense of his thesis in the summer of 2003.

Dr. Charles Patrick Publishes Textbook

It has been said that writing and publishing a novel is a demanding task. If that is so, writing and publishing a textbook must be even more challenging.

A textbook not only includes many elements of a novel, but it also requires

technical accuracy and appropriate images.

Dr. Charles Patrick recently completed a lengthy three-year textbook-writing process. Prentice-Hall just issued his 204-page *Construction Project Planning and*

Scheduling. It was written for university students in construction programs and carries a 2004 copyright date. Dr. Patrick generated all the charts and graphs in the eight-chapter book. Some of its photographs are of construction work at MSU.

Faculty on University, College Committees

Not unlike the United States Senate and House of Representatives, much of the academic and administrative work of the university is handled through a committee structure. At the university level, for example, including the Faculty Senate, MSU has 30 standing and advisory committees. The College of Science and Technology has six, and the department has about five.

Among university committees, Dr. Charles Patrick and Dr. William Grisé are the department's representatives on the Faculty Senate. Additionally, Dr. Patrick serves on the Faculty Rights and Responsibilities Committee and Dr. Ronald

Spangler serves on the Registration Advisory Committee. Dr. Wayne Morella is a board member for the Campus Partnership Fund.

Among the college committees, Dr. Morella is on the Graduate/Teacher Education Committee and Dr. Spangler serves on the Undergraduate Curriculum Committee. Also, Dr. Patrick is on the College Promotion Committee. Prof. Edward Nass and Dr. Grisé share a joint appointment on the Science and Technology Honors Day Committee. Additionally, Dr. Grisé is on the Recruitment and Retention Committee and Dr. Rodney Stanley serves on the

Technology Committee.

The importance of any particular department committees ebbs and flows depending upon need. The Undergraduate Curriculum Committee was busy over the past few years as the department strengthened some programs and added others. The Recruitment and Retention Committee is always busy, as is the Teacher Education Committee, the Honors Committee and the Library Liaison. The Promotion/Tenure and Sabbatical Leave Committees only meet when there is a need. Almost all members of the department serve on at least one committee.

Dept Welcomes Dr. Rachmawati Wangsaputra

The department welcomes Dr. Rachmawati Wangsaputra as a new faculty member. She is teaching courses in the manufacturing/robotics option such as MFT 386 NC-CNC Manufacturing Technology and IET 319 Quality Control. She is also teaching a section of IET 120 Technology Systems.

Dr. Wangsaputra has an MS in Mechanical Engineering and a PhD in

Industrial Engineering from New Mexico State University in Los Cruces. She has written papers on the detection of tool collision and gouging, dynamics simulation, and adaptive resonance theory.

Some of her professional interests include computer aided manufacturing, artificial intelligence for manufacturing systems, and indus-

trial automation.

Originally from Indonesia, Dr. Wangsaputra earned her undergraduate degree at the Institut Teknologi Bandung where she studied the kanban system of production. Kanban is a visual parts-ordering system used by Toyota Motor Manufacturing in Georgetown and other manufacturers.

Progress Report on Telecommunications Program Courses Launched at MSU and West Liberty Site

The newest option area in the department is the Telecommunication and Networking Option. It includes many new and upgraded technical courses and is meant to interface with the MSU Space Science Center.

An early course in the program is IET 120 Technology Systems. One section is being taught at the MSU

West Liberty extension site and another on the main campus. In all, there are approximately 38 students in the two courses. This is a very healthy number. Other related enrollments include EET 480/IET 680 Networking Technology with 19 total students. EET 345 Microprocessor Electronics has 21 students.

The unexpected resignations of two faculty members in the telecommunications area has caused some schedule reevaluations. However, the department has established a search committee to identify faculty candidates who could provide leadership in this area.

Spring 2003 Reception For 29 IET Graduates

Students Earned Bachelor and Master Degrees

It is traditional for the department to sponsor a reception for its graduates. The May 10th event was held one day before the university's spring graduation ceremony, and at the MSU Alumni Center. Many of the graduates came with friends and relatives. Demonstrating the importance of non-traditional students in the IET Department, some graduates arrived with their spouses and children.

Dr. Wayne Morella arranged the activity and made amusing anecdotal comments about some of the graduates. Following a light meal of sandwiches and soft drinks, Profs. Dennis Karwatka and Edward Nass received

acknowledgement as retiring faculty members. Each was given a monogrammed "Faculty Emeritus" shirt and a departmental plaque to commemorate their 73 total years of service.

The graduates included,

Construction/Mining: Wilburn Boyette, Ryan Cox, Brian Hamilton, Jarred Hunt, Anthony Price, Jeremy Ruckel, and Bradley Wireman.

Electricity/Electronics: Drew Gilliam (Recipient of the 2003 Outstanding Undergraduate IET Student Award), Robert Reed, Brandon Ross, and Kyle Seibert.

Graphic Communication: Charles Barker, Aaron Franke and Barry Harper.

Manufacturing/Robotics: Scott Alles, Anthony Bormes, Tay Shing Chen, Jonathan Coulter, Joshua Mullins, Justin O'Connor, Gordon Reeves, Daniel Risner, Hassel Smith, and Nathan Wagner.

Education: Christopher Daniel.

Masters: Steven Barnoski, Jason Noble (Recipient of the 2003 Outstanding Graduate IET Student Award), Edward Parker, and Joyce Thompson.

Room Changes, Computer Labs in Transition

The development of new programs and the enhancement of existing ones, has resulted in some furniture shifting in the department. To open up room LC 211 for use in the Telecommunication and Networking Option, the metalworking tools that were originally in the room were relocated to RH 120. In the meantime, LC 211 has been fitted with 30 computers, and work continues to improve the room's ambiance.

During the summer, the department received a \$50,000 Tech Prep integration grant from which it was able to reconfigure LC 300 with 30 computers featuring below-surface monitors. Individuals who assisted with the project were Dr. Ahmed Sabie (State Tech Prep Coordinator and Advisory Board member), Dr. Wayne Morella (Project Co-Director), Prof. Robert Hayes

(Project Co-Director), and Ms. Johnda Flora.

Earlier last year, rooms LC 304 and LC 308 were improved to accommodate computers for multi-media applications, and video projection equipment suitable for Power Point use. Including LC 315, the department now has three media classrooms for this purpose.

Dr. William Gris  Researches in North Florida

For the past two summers, Dr. William Gris , has worked as a faculty researcher on a Summer Faculty Fellowship Program at Eglin AFB, near Pensacola, Florida. He has been employed by the High Energy Research and Development facility to conduct research in the field of dislocations in specific crystals.

Such basic research is highly detailed and Dr. Gris 's work is no exception. One abstract he generated referred to "Hot Spots from Crystal Size Dependent Dislocation Avalanches in Energetic Materials." He is interested in investigating certain mechanical properties including low fracture stresses.

Dr. Gris  teaches CON 303 Material Properties and Testing, a department core course. His summer work is related to the topics he covers and he plans to incorporate aspects of his research to improve the scope of the course. Dr. Gris  feels that this will help return some benefits of his research to the department.

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"Teaching tomorrow's technology today"

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Graduate Assistants

The establishment of a Master of Science in Industrial Technology has brought many interested students to the department. About 25 are presently in the program and seven serve as graduate assistants.

Among the students who recently began their studies, Tay-Shing Chen of Morehead is involved with instruction in CAD and construction courses. Jason Fights from Cincinnati is assisting in the instruction of IET 386 Fundamentals of Metallurgy and Joining Technology. Phillip Thornton of Munfordville is involved with electricity and electronics courses. And Christopher Young from Morehead is working with the Space Science Center.

These graduate assistants take a variety of 500- and 600-level courses while assisting faculty members with teaching and research activities.



Short Bytes... Faculty Summer Activities

Shirley Flinders - is currently an MSIT student and has accepted a teaching position at Grambling State University in Grambling, Louisiana.

William Gris  - worked at Eglin AFB, Florida in their High Energy Research and Development facility.

Robert Hayes - continues to serve as MSU's representative on the Kentucky Wood Products Competitiveness Corporation Board.

Dennis Karwatka - has a book in process with Glencoe/McGraw-Hill and co-edited this newsletter.

Sam Mason - worked in the summer Upward Bound program, taught a Web Page Development class, and married Amanda Ray Howes.

Wayne Morella - taught two Tech Prep workshops to expand Tech Prep

activities with 12 counties in MSU's service region. This was part of a \$50,000 grant that the department received from the Kentucky Department of Technical Education.

Edward Nass - recently retired from the department and received Faculty Emeritus status from MSU. He co-edited this newsletter.

Charles Patrick - received MSU approval for a professional development grant proposal to study Project Management computer software. The grant was funded through the Center for Teaching and Learning.

Martha Plymale - is a Spring 2003 MSIT graduate and is teaching Technology Education at Iroquois High School Magnet Career Academy in Louisville.

Ronald Spangler and Rodney Stanley - had a joint \$11,000 grant approved and funded by the Kentucky Department of Technical Education. It is titled "Gender Equity Awareness and Skills in Pre-service and In-service Technical Education Teachers."

Rachmawati Wangsaputra - moved to the department from New Mexico State University in Los Cruces. See article elsewhere in this newsletter.

Ahmad Zargari - instructed high school students in engineering at Eastern Kentucky University for six weeks in the Governors Scholars Program. He is also president of NAIT's university division for the 2003/04 academic year.