

# IET Informer

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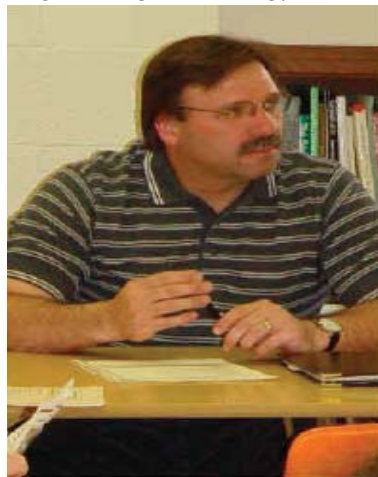
**National Association of Industrial Technology**  
41th Annual Convention  
Nov. 18~22  
Nashville, TN

**ASEE Annual Conference & Exposition**  
June 22-25, 2008  
Pittsburg, PA

## Morehead State University

### IET Advisory Board Scholarship

As the chair of the Industrial and Engineering Technology (IET) Advisory Board, I am pleased to announce the establishment of the IET Advisory Board Scholarship Endowment. This merit-based scholarship endowment is established to help recruit and retain top quality undergraduate students in the Department of Industrial and Engineering Technology at Morehead State University.



As data indicates, less than 20% of Morehead State University students can afford to pay full tuition while approximately 50% totally depend on financial aid. The primary goal of this scholarship is to support a large number of highly qualified and motivated students who may not be able to afford to attend the University.

As a graduate, employer and friend of IET, I am pleased to mention that in several decades, the Department of Industrial and Engineering Technology has touched the lives of more than 1500 students. Through their education in the IET Department, they have become highly skilled employees for the economic enterprise system in the region and beyond. A number of IET graduates currently hold key industrial/

engineering positions in local corporations and serve as very productive employees. The IET Department has continued to make contributions to the economic development. MSU's service region by meeting the needs of business and industry for an advanced workforce. As technical means and processes continually change, there is a need for a more qualified and prepared incoming group of students.

As part of the effort of increasing the number of college graduates in the Commonwealth of Kentucky and to meet the challenges of the new millennium by recruiting and supporting a group of qualified students, I am inviting you to join in the vitally important effort required to make the Advisory Board Scholarship Endowment a reality. With your personal and/or organizational gift to the IET Advisory Board Scholarship Fund, you will make significant contributions to IET's vision of continuous improvement and student success. -- Randy Norwood

# Advisory Board Highlights

Dr. Ahmed Sabie retired from the Office of Career and Technical Education (OCTE) in January 2008. He served as the director of the Kentucky Tech Prep Education Program, New Teacher Institute, New Principal Institute, and New Teacher Academy in the Department for Workforce Investment, Office of Career and Technical Education which is part of the Kentucky Education Cabinet.



Dr. Sabie has also served as a director of Program Management Division, Department for Technical Education, director of Program Services Division, Adult Education and Literacy department, principal of the Bullitt Co. Area Technology Center and service area coordinator and executive assistant to the Commissioner in the Kentucky Department for Technical Education.

Before coming to Kentucky, Dr. Sabie served as curriculum supervisor for Industrial Technology Education in the St. Louis, Missouri public school system as well as a graduate teaching assistant and assistant professor in the Department for Practical Arts and Vocational Technical Education at the University of Missouri-Columbia.

Dr. Sabie has been involved with Tech Prep on the state level since 1991; he was the first Kentucky Tech Prep Director. He now serves on the National Tech Prep Network 2007 Conference Planning committee and the National Tech Prep Advisory team.

Dr. Sabie received his bachelor's and master's Degrees from Morehead State University and his Ph.D. from the University of Missouri. Dr. Sabie has been very supportive of the Industrial and Engineering Technology Department. He is a founding member of the IET Advisory Board and has donated the royalties from his book *The Pathway from Baghdad to Tech Prep: A Success Story*, to the IET Student Scholarship Fund. With numerous state and national presentations and publications he holds membership in various state and national professional and educational associations. Dr. Sabie served as the 2004-2005 president of the 12 member states Southeastern Trade and Industrial Education Conference (STIEC) after serving as its vice-president in 2003-2004. Dr. Sabie has been married to his wife Dr. Vicki Sabie M.D. for 34 years and has three children.



Bob Barton is Vice President for Pack's, Inc., a Morehead family-owned and operated Construction Management and General Contracting firm.

Bob has worked in the construction industry for over 23 years. He has worked on numerous construction projects in the region and has experienced various assignments in project management, cost analysis, budget control, scheduling, quality control, resource management, and personnel management.

Prior to employment with Pack's, Inc., Bob gained his construction education from the US Army Engineer Officer Course in Missouri. He is a retired (2005) engineer officer from the Kentucky Army National Guard. He is a 1992 graduate of Morehead State University with a degree in Sociology.

Bob currently holds a contractor's license in West Virginia and Tennessee and he is also a Kentucky licensed home inspector. He has also earned the Certified Professional Constructor (CPC) professional designation from the American Institute of Constructors.

Bob is active in the Morehead community and contributes to local and civic organizations. He is actively involved with Little League Baseball and American Legion Baseball, serving as the player representative for both organizations. He is a member of the Morehead Daniel Boone Jaycees. He has served on the Morehead Rowan County Chamber of Commerce Board of Directors and is currently the Vice Chair for the Morehead-Rowan County Recreation Board. In November 2007, he was appointed to the Morehead-Lakeview Heights Joint Planning Commission.

Bob has been active with the MSU AGC/ABC Student Chapter since becoming an MSU IET Advisory Board member in October 2006. He is the president-elect for the Associated General Contractors (AGC) of Kentucky. He has been an AGC of Kentucky board member since 2001.

# Robotics team wins at NAIT



The robotics team from the Department of Industrial and Engineering Technology finished first at the recent collegiate Tele-Operated Robotic Manipulator Contest at the 40th Annual Convention of the National Association of Industrial Technology (NAIT) held in Panama City, Fla.

The competitors were from 11 other institutions including Southern Illinois University-Carbondale, Iowa State University, University of Northern Iowa, University of North Dakota, University of Wisconsin-Platteville, Eastern Kentucky University, Missouri State University, Central Connecticut State University, Millersville University, California Polytechnic State University, and Spoon River College.

The MSU robotics team took first place for its tele-operated robot dubbed “Scarabot” in a competition to find a magnet buried on the beach. The task for the robots in the contest was to locate a 150-pound pull magnet buried 4” beneath the sand in a 24’ x 24’ area of the beach and plant an 8” flag pole with a NAIT logo paper flag to indicate the magnet’s location.

For their accomplishments, IET students Curtis Adkins, Florence senior; Joshua Bowes, Owingsville sophomore; and Christiane Lutz, Vorarlberg, Austria, junior; were awarded prizes including high-end 3D software, Parallax robotics kits, a Lincoln MIG welder, various textbooks, a cash prize and the NAIT grand champion traveling trophy.

Along with these prizes, the robotics team and NAIT student chapter president, Jimmy Higdon, Springfield senior, are being awarded weeklong robotics training at Rixan Associates Inc. “Our robot’s performance was outstanding. Curtis, Christiane and Josh spent many long nights in their lab building and improving the robot to make it a champion,” said Dr. Yuqiu You, assistant professor of IET and the robotics team adviser. “Teamwork, patience and a collective knowledge yielded just that, a winning design.”

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## 11th Annual Eastern Kentucky Technology Education Association (EKTEA) Technology Students Association (TSA) Regional Competition

February 1, 2008



On Friday, February 1, 2008, Morehead State University’s IET department hosted the annual Eastern Kentucky Technology Education Association (EKTEA) Technology Students Association (TSA) Regional Competition. Eastern Kentucky high school students competed in several events. Over 100 area high school students from the Eastern Kentucky counties of Lewis, Rowan, Fleming, Nicholas, Morgan and Ashland Paul Blazer high school were participants of the fourteen-event competition. With the first and second of the each event advancing to state competition, the students worked very hard to excel above expectations.

Morgan county high school students have received 15 awards: 9 as the first, 1 as the second, and 5 as the third.

Nicholas county high school students have received 8 awards: 3 as the first, and 5 as the second. Lewis county high school students have received 8 awards: 2 as the first, 3 as the second, and 3 as the third. Fleming county high school students have received 7 awards: 6 as the second, and 1 as the third. Rowan county high school students have received 4 awards: 1 as the first, 2 as the second, and 1 as the third. Ashland Paul Blazer high school student has received only 1 award as the first. Mr. Sam Mason and Dr. Wahed Wasel coordinated the EKTEA TSA. During the ceremony, the IET department chair Dr. Ahmad Zargari re-emphasized how everyone just being in attendance made everyone a winner regardless if you received an award or not.



# Faculty News and Activities



**NAIT JIT Board:** Dr. Patrick continues his service to the National Association of Industrial Technology (NAIT) as chairperson of the JIT Board (Journal of Industrial Technology). The JIT Board is one of three independent boards (also accreditation and certification) within the NAIT. The purpose of the JIT Board is to provide organizational and editorial functions for the Journal of Industrial Technology (JIT). The JIT is the premiere research-based online journal focused in the disciplines of industrial technology, technology management, and closely related fields. During 2007 under Dr. Patrick's leadership, the JIT implemented full electronic submission, vetting, and review of submitted articles. Becoming fully electronic has been a goal of the JIT since 2005. Details about the JIT and article submission process can be found in the JIT Section of the NAIT website at [www.nait.org/jit/jit.html](http://www.nait.org/jit/jit.html).

**Consulting:** Dr. Patrick performed two structural assessments of a commercial low-rise structure on Main Street in Morehead, KY. The assessment included both the structural evaluation and recommendations for repair to the structure to improve public safety. Dr. Patrick also performed residential structure assessment in Lakeview Heights near Morehead, including evaluation of the structural integrity of a residence damaged by water and recommendation for repair to adhere to KY residential code. During 2007, a water drawdown system was built on the Lake Lewman dam (26-acre impoundment 10 miles north of Morehead). Dr. Patrick, along with Dana Greenfield of Morehead and Martin Engineering of Mt. Sterling, KY, designed the hydraulic piping, valves, structures as well as positive and negative pressure systems for this system. The design was finalized in 2006 and the construction completed in 2007. Recently, Dr. Patrick testified as a hydrology witness in a court case involving water runoff damage due to surface structural changes of properties in Clearfield, KY. Currently, Dr. Patrick is working with Frontier Housing in Morehead to design foundations for future homes in the Morehead area. Frontier Housing is a non-profit affordable housing provider (<http://www.frontierhousing.org/>).



Dr. Ali Alavi and Dr. Bill Grise are preparing the self-study report for the NAIT re-accreditation. The visiting team will be on campus in March to review the report. Also, Dr. Alavi and Dr. Jaby Mohammad are working on two projects which will be submitted for inclusion at NAIT convention held in November, 2008 in Nashville, Tennessee.



Dr. Xiaolong Li made a presentation at the American Society of Engineering Education 2008 Conference for Industry & Education Collaboration, February 13-15, 2008, New Orleans, LA. His presentation title is "Development and Application of a New Curriculum for Computer Networking". He also made a presentation "A New Vertical Handoff Schemes for Integrated Wireless Network" at the 93rd annual meeting of the Kentucky Academy of Science. His research paper "Modeling and Performance Analysis of Mobile Ad Hoc Networks" has been published by the Journal of the Technology Interface, fall issue, 2007.



Dr. Jaby Mohammed has authored and Co-authored with Dr. Xiaolong Li, Dr. Gabriel Alungbe, and Mr. Sam Mason and has had three abstracts accepted (paper under review) for the upcoming annual conference of American Society of Engineering Education (ASEE) to be held at Pittsburg, PA in June 2008. A presentation was also made at the 93rd annual meeting of the Kentucky Academy of science along with Sam Mason on Fused deposition technique. Dr. Mohammed also has had an abstract accepted for the 19th Annual Conference of the Production and Operations Management Society (POMS) to be held at La Jolla, CA in May 2008.. Dr. Mohammed received this years Alvin Rudissill – Epsilon Pi Tau scholarship award for the year 2007 at the 40th annual convention of NAIT. Epsilon Pi Tau is an academic and professional honors group for technology programs in higher education, workforce development programs, and professionals in practice. Dr. Mohammed was also initiated as the member of Epsilon Pi Tau at the NAIT convention.



Through involvement in PLTW and ITEA conferences, Sam Mason is performing an outreach activity with a local elementary school. The project is a STLP/ Engineering Club at Tilden Hogge Elementary School in Morehead, KY. The club, which is one of many others, is available every Friday for approximately one hour. Principal Debbie Howes stated, "she wanted the students to engage in different activities to provide motivational activities on the least motivated day of the week at the least motivated time of that day. The clubs provide a creative way to meet core content, in an environment that is stimulating because it is non-routine." Since the clubs are sponsored by adults, other than the teachers, the intermediate team teachers are able to have a common planning period during club time. "This is an excellent way to begin eliminating fear of the math and science principles for the technology and engineering fields. It allows the students opportunity to learn these core content areas in a different light and the elementary arena offers the best start point for this to become a success. Our nation is not producing enough highly technical and professional people in the technology and engineering fields and this is my way of reaching out and trying to solve that problem at a local level", said Mr. Mason.

# Alumni Highlights



Priya Shekar came to MSU in fall 2005 to pursue her second masters degree in Industrial Technology. She has her undergraduate degree in Business Administration and a masters degree in Personnel Management from Pune, India. She was a graduate assistant for the two years while she was pursuing her masters education here. She was also the vice president of the Cosmopolitan Club on campus in spring 2006. She was able to successfully graduate after completion of her thesis “Identifying and analyzing the factors causing the process mean to shift away from the nominal value in the ball bearing raceway of MD2 series”. She received “Outstanding Master of Science in Industrial and Engineering Technology Student” honors award in May, 2007. She was employed by Emerson Power Transmission ~ Browning and Sealmaster in the summer of 2006 and fall 2006 respectively as an intern. She was then hired full time as a Quality Engineer II by Emerson Power Transmission, Maysville Bearing Operations in Nov, 2007. Emerson Power Transmission belongs to the

Emerson Industrial Automation division under the Emerson brand. It is a major producer of mechanical power transmission drives, components and bearings. EPT serves a wide array of machinery-intense industries, including forestry and wood products, mining and quarrying, power generation, and heating and ventilation. It has 14 manufacturing and distribution facilities.



Joe Bevins got his bachelor’s degree from the IET department in December 2003 with an option in Electricity/Electronics option. He worked at Guardian Automotive in Morehead, KY from December 2003 to February 2005 as a customer quality engineer which included launching new product, developing customer PPAP’s, leading corrective action & countermeasure activity. He joined KDMK as a new project leader in Mount Sterling, KY in February 2005. His responsibility at KDMK includes scheduling trial build events, leading production readiness reviews, supporting performance validation test timing, holding regular new project meetings with their team members & managers, and coordinating approval meetings with their parent company for release of Mass Production. He is also involved with projects that will localize production of supplied parts from overseas manufacturers to US suppliers.



Rick Wagoner has been employed by Morehead State University as the Network Manager LAN/WAN in the Department of Telecommunications for the past five years. During this time Rick has been responsible for testing, implementation, maintenance, and management of the university’s wired and wireless networks while also supporting the other Information Technology divisions. Prior to this, Rick was employed by Family Dollar Distribution Services as Network Administrator at the Morehead, Kentucky facility, Office Manager for S&Z Corporation, and also as a Systems Administrator for the Kentucky Community Bancorp holding company based out of Maysville, Kentucky.

Rick earned his Bachelor of Business Administration degree from Morehead State University in 1989 with a core emphasis in Computerized Information Systems. In December 2007 he completed his Master of Science degree in Industrial Technology.

Rick has been married to his wife Callie for 18 years and they have one son Zachary.

# New Faculty



Joyce Wogoman is the new CTE Coordinator/Asst. Professor. Joyce holds a PhD from the University of Tennessee. Her masters and bachelors degrees are from Morehead State University. She also holds a principals certification for career and technical education.

Joyce has held several positions in education and industry. She has taught at both the secondary and postsecondary levels. She has worked as an administrator for the State Department of Education and Technical Education. In industry, she has worked as a general laborer in a foundry, as a member of the production staff for a newspaper, as a field technician inspecting sewer lines, and a production supervisor.

Joyce has presented at local, state, and national conferences, workshops, and seminars. She also served as president of Kentucky's Applied Technology Education Association which serves teachers in the state. She has served on two national boards and as a Project Director for a federal project. She was the first female to graduate from Morehead State University with a BS in Industrial Arts.

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# New Graduate Assistant



Devender Banne is from Hyderabad, India. He is a graduate student of the Industrial & Engineering Technology Department and he works in the Space Science center as an graduate assistant. He has obtained his bachelor degree in mechanical engineering from Sree Visvesvarayya Institute of Technology and Science (an affiliate college to Jawaharlal Nehru Technological University, Hyderabad, India. He has also obtained a diploma in Mechanical Engineering from KrishnaDevaraya Government Polytechnic, India.

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# SME Chapter Meeting



The senior chapter of the Society of Manufacturing Engineers (SME) traveled to Morehead State University during the regular February 2008 monthly meeting to have dinner with the student SME chapter S303 and tour Guardian Automotive. Sam Mason, SME chairman, and Jaby Mohammed, secretary, arranged the event in order to foster fellowship between the senior members and students. Twenty-two were in attendance for the plant tour that was led by Jason Gammon, Manufacturing Engineer and Daniel Risner, Manufacturing Engineer and MSU graduate. Companies represented from the senior chapter were Schneider Electric (Square D), Finn-Power, Lexmark, Manufacturing Resources Inc, Hussey Fabricated Products and Rogers Tool and Mfg. It was an event enjoyed by senior members and students that allowed time for friendship, learning and networking.

## Faculty News and Activities



The 225th anniversary and commemoration of the Battle of Blue Licks was held on August 18th and 19th at the Blue Licks Battlefield State Resort Park in Mt. Olivet, Kentucky. In 1782, the Battle of Blue Licks marked the end of the Revolutionary War in Kentucky with 78 pioneers losing their lives on the battlefield against the British and Native Americans. During the commemoration, the Pioneer Museum which was built during the depression, opened its renovated doors to improved exhibits, one being a three-dimensional topographic diorama depicting the route and battlefield of August 19th, 1782. The diorama was developed under the guidance of Rollie Hatfield, Geography, in conjunction with Paul Tierney, the park naturalist. Dr. Rodney Stanley worked as the materials consultant and Sam Mason worked with Daniel Watson and Johnny Ingle, Industrial and Engineering Technology students, on the Computer Numerical Controlled machining for the topographic outline and pattern. On August 19th during the memorial service, J. T. Miller, Commissioner of Parks, and Secretary of the State Trey Grayson, presented commissions honoring Rollie Hatfield, Rodney Stanley, Sam Mason and Nichelle Hatfield as Kentucky Colonels. Those not present that were also commissioned were Daniel Watson and Johnny Ingle.

The Honorable Order of Kentucky Colonels is an organization of men and women who have been commissioned Kentucky Colonels by the Governor of the Commonwealth because of their service to mankind and to Kentucky. The purpose of The Honorable Order of Kentucky Colonels is to aide and promote the Commonwealth and its citizens. The plaque, on the inside wall, of the pioneer museum gives a special thanks to the Department of Industrial and Engineering Technology and the Institute of Regional Analysis and Public Policy. Other contributing MSU faculty and staff include Gary O'Dell, Geography and Timothy Hare, IRAPP.



Dr. Wahed Wasel has attended the following seminars: BB100: Teaching with Blackboard, Morehead State University, Morehead, KY in January 10-11, 2008; Quality Matters Rubric for Online and Hybrid Courses, Morehead State University, Morehead, KY in January 8, 2008; Developing Scholars of Teaching and Learning, Center for Teaching and Learning, Morehead State University, Morehead, KY in December 7, 2007; Faculty Professional Development workshop on Business Process Integration Overview( SAP software) at school of Business, Morehead State University, Morehead, KY in November 28-30, 2007.

He also attended the National Career Pathways Network 2007 Conference October 10-13, 2007 Louisville, Kentucky and the 40th annual NAIT convention, October 23-27, 2007 Panama City Beach, Florida.

## IET Sports Club



In the past, some of the IET faculty and staff has assembled to play racquetball. Starting this spring semester, they have decided to take further steps and expand the recreational activities to include other sports and thus make it more official. This semester, on Friday evenings, the IET faculty and staff get together to play volleyball and racquetball, and are planning to add more sports such as tennis and badminton. Are you interested in joining us?

Sure! However, be advised that we are very competitive! Just be ready!!

## *Did you know.....?*

*The IET department graduated approximately 300 students since fall 2003.*

*Of the Spring 2006 Commencement, 70% of Master of Science Degrees confirmed were MSIT or MSCTE.*

### *A survey of 2002 IET Alumni says:*

*100% have FULL Time employment*

*85% rate this program Good or Excellent*

*100% Agree or Strongly Agree professional competency is a result of the IET department*

*40% have received a promotion since program completion*

*95% say their present occupations are directly related to their fields.*

*2003 Graduate Salaries*  
*High - \$80,000*  
*Average - \$50,000*

**What are you waiting for.....**

**visit us at [www.moreheadstate.edu/iet](http://www.moreheadstate.edu/iet)**



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