In Loving Memory of Charles Arvin
We are sad to pass along that Charles Arvin, Lab Manager in the Institute for Sustainable Manufacturing and a 2014 Staff Excellence Award winner, passed away on June 17. He was treasured by many people inside and outside the college and his warm smile and dedication will be missed.

About the Institute for Sustainable Manufacturing
Details about our new projects, lab facilities, books, recent publications, patents, and more can be found on our website!

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Journals
International Journal of Sustainable Manufacturing
www.inderscience.com/ismn
Journal of Machining Science and Technology
www.tandfonline.com/toc/lmst20/current

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• Visit www.engr.uky.edu/mfs.
• Contact Prof. Fuadre Badurdeen, Director of Graduate Studies for Manufacturing Systems Engineering Program at badurdeen@uky.edu.
• Contact Graduate Program Coordinator at 859.218.0611 or manufacturing@uky.edu.

PRISM: A New NIST-Funded ISM Project Dedicated to Developing Research Consortia in Sustainable Manufacturing
PRISM is the Partnership for Research and Innovation in Sustainable Manufacturing. It is an emerging alliance of industry, government, and academia with the goal of defining and executing a pragmatic, business-driven agenda for achieving and maintaining sustainable manufacturing. The PRISM project is funded by the National Institute of Standard and Technology (NIST) Advanced Manufacturing Technology Consortia (AMTech) program.

Project Objectives
• Develop multi-partner consortia to create technology infrastructure and promote US excellence in sustainable manufacturing.
• Identify and prioritize research projects supporting long-term strategic industrial needs in sustainable manufacturing.
• Develop shared-vision roadmaps for technologies that enable transformational innovations for next-generation manufacturing.

Project Team
University of Kentucky
I.S. Jawahir (PI)
Badurdeen (Co-PI)
K.E. Rouch (Co-PI)
W. Li (Co-PI)
C. Smith (Project Manager)
B. Hogan (Graduate Student)

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A Message from the Director
In April 2015, the Institute for Sustainable Manufacturing (ISM) began its third year of operations. We continue to make significant progress with our overall mission of conducting academic research (basic and applied), offering educational programs and systems, and providing outreach to industry. Our focus in sustainable manufacturing has been on products, processes and systems. During the last two years, we have exceeded our expectations in research productivity with increased funding, research publications, graduate student productivity and industry outreach activities.

Here are some highlights of recent achievements in the first half of 2015:

• As a part of the recently funded NIST-AMTech project, organized and hosted a sustainable manufacturing workshop for automotive industry at the National Center for Manufacturing Sciences (NCMS) in Ann Arbor, MI in April 2015.
• Continued to offer courses for the online Masters Degree Program in Manufacturing Systems Engineering, focusing on sustainable manufacturing.
• Continued to expand our international collaboration with researchers from Australia, Brazil, China, Finland, France, Germany, Italy, Lebanon, Malaysia, Norway, Slovenia, Turkey and United Kingdom.
• Collaborated with the American Institute for Chemical Engineers (AIChE) in organizing and hosting of the 4th International Congress on Sustainability Science and Engineering (ICOSSE 2015) in Balatonfüred, Hungary in May 2015.
• Collaborated with Karlsruhe Institute of Technology (KIT) in organizing and hosting the 15th CIRP Conference on Modeling of Machining Operations in Karlsruhe, Germany in June 2015.

I. S. Jawahir, Director, ISM
Workshop identified four project areas for industry–university collaboration:
- Design Guidelines for Sustainable Manufacturing
- Global Best Practices for End-of-Life Management
- Intelligent Manufacturing Framework for Automotive Sustainable Manufacturing
- Triple Bottom Line Cost Analysis Process Development

Awards and Honors

Dr. Yukang Liu, a former student who finished his PhD in Electrical Engineering under the direction of Professor YuMing Zhang, won the 2015 competition for the Henry Grunjon Prize, Category D, from the International Institute of Welding (IIW). Dr. Liu is the fourth student of Professor YuMing Zhang to win this competition. The previous student winners are: Dr. Kehai Liu (2008, Category A), Dr. Yi Huang (2012, Category A), and Dr. Weijie Zhang (2013 Category D).

As a part of the ongoing research collaboration between University of Kentucky (Lexington, KY, USA) and Karlstruhe Institute of Technology (Karlstruhe, Germany), 15th CIRP Conference on Modelling of Machining Operations was organized and hosted by the collaborating researchers under the leadership of Professor Volker Schulze in Karlstruhe, Germany on June 11-12, 2015. Professor V. Schulze and Professor I.S. Jawahir served as Co-chairs for this major international conference, which was attended by over 150 participants from 22 countries, with over 95 technical papers being presented. Professor I.S. Jawahir, who was the founder of this conference series in 1998, with the very first conference organized and held in Atlanta, GA, USA, was honored at this conference for his continued contributions to this conference series and for his most recent commitment to sustainable manufacturing. More information about this conference can be found at the conference website: http://www.cirp-cmms2015.com. The next conference in this series will be held in Chany, France in June 2017.