The first cohort of entirely online students (seven) was enrolled in the MFS program in Fall 2015. Three fully online courses were successfully offered for the incoming class of students and additional courses are being offered in Spring 2016.

A proposal for a Graduate Certificate in Manufacturing Systems has been approved by the college, and has been submitted to the University for final approval. Once approved, the certificate will apply to the course requirements for the Master's degree program.

In addition, this will also be an alternative path for students who do not have an undergraduate degree in an engineering-related field to earn a graduate certificate in Manufacturing Systems.

This option will be attractive to students who desire further knowledge in manufacturing topics, but who are not willing to commit to the complete Master's degree. The courses for the certificate will apply to the course requirements for the Master's degree program.

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 Standards and Technology (NIST) Advanced Manufacturing Technology Consortia (AMTech) program.

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Get Your Masters in Manufacturing Systems Engineering from the University of Kentucky Entirely Online

An advanced degree in manufacturing from an institution world renowned for its manufacturing expertise can provide you the technical knowledge and capabilities necessary to succeed in your career!

There is still time to apply for Fall 2016. No GRE score required!

Visit www.engr.uky.edu/mfs
Contact Professor Fazleena 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
NIST-UK Workshop on Sustainable Manufacturing for the Aerospace Industry
Cincinnati, OH
October 20-21, 2015

ESM, in conjunction with GE-Aviation, organized and hosted a sustainable manufacturing workshop. This workshop was second in a series of three workshops developed under the sponsorship of the NIST-IAMTech PRISM (Partnership for Research and Innovation in Sustainable Manufacturing) project, and was held at the GE Aviation Learning Center, Cincinnati, OH on October 20-21, 2015.

The major objectives of this workshop were to:
- Review the Technology Roadmap and identify potential projects of interest to the aerospace industry;
- Identify companies that might want to work on these projects with universities and national laboratories;
- and explore potential funding sources.

The agenda for this second workshop included keynotes presentations on:
- Manufacturing Informatics (Dr. E.h. Dr. h.c. Fritz Klocke and Dr.-Ing. Stefan Buchkremer)
- Advanced Manufacturing (Professor I.S. Jawahir)

A total of 35 participants, including several top decision makers in the aerospace and defense industry, attended the workshops. A comprehensive workshop report has been developed.

Awards and Honors

The agenda for this second workshop included four keynote presentations on:
- Industrial Innovation (Dr. YuMing Zhang)
- Global and Domestic Sustainable Manufacturing (Dr. Dusan Sekulic)
- End-of-Life Value Management (Professor I.S. Jawahir)
- "Making the Business Case for Sustainable Manufacturing" (Dr. Julius Schoop)

A notable total of 35 participants, including several top decision makers in the aerospace and defense industry, attended the workshops. A comprehensive workshop report has been developed.

International Collaboration

New International Research Collaborations Established with Two Major German Universities

Researchers from the University of Kentucky and Imperial College London in the UK have established a new collaboration with researchers from Fraunhofer Institute for Production Technology and Machine Tools (IFW) in Hannover, Germany, on the study of the influence of size effects on surface integrity in machining of Inconel 625.

Visiting Scholars

Wissey Falco Sales is an Assistant Professor in the Department of Mechanical Engineering at the University of Connecticut. He is a former PhD student in the E.H. Dr. h.c. Fritz Klocke and Dr.-Ing. Stefan Buchkremer at RWTH Aachen University, Germany.

Dr. Jawahir was awarded the William Johnson International Gold Medal

Professor I.S. Jawahir (University of Cincinnati) has been awarded the International Gold Medal, Advances in Materials and Processing Technologies (AMPT 2015), Madrid, Spain; December 15-19, 2015. He is the first US recipient of this prestigious award. This award was established in the United Kingdom under the signature international conference series on Advances in Materials and Processing Technologies (AMPT) established over 20 years ago, and is named after the founder of this conference series, Professor William Johnson, D.Sc., FRS, FEng, formerly of Imperial College, London, UK.

Invited Keynote Papers and Presentations

- Professor I.S. Jawahir delivered a keynote paper on "Making the Business Case for Sustainable Manufacturing", at the College of Materials Science and Engineering, Beijing, China.
- Dr. Dusan Sekulic was also re-appointed as a "Secat J.G. Morris Alumnus Professor" for the SM Society of Heating, Piping, and Air Conditioning Engineers, December 20, 2015.

The 5th International Forum on Sustainable Manufacturing, Lexington, KY, September 24-25, 2015

The 5th International Forum on Sustainable Manufacturing was held on September 24-25, 2015 at the Spindletop Hall at the University of Kentucky. The event was held over two days for the first time, and was for the most successful of the series that was started in 2010. Professors Faizullah Badrudeen and Jeffrey Seay were co-chairs for this event.

Special features of the event in 2015 included:
- Presentations by industry leaders on sustainable manufacturing practices as well as challenges to be addressed in order to make the business case for sustainable manufacturing;
- Leading researchers sharing their most recent advances in sustainable manufacturing related fields;
- Representatives from national funding agencies who shared federal opportunities available to support further research in sustainable manufacturing-related topics;
- A panel discussion on "Making the Business Case for Sustainable Manufacturing", which focused on issues faced by industry when implementing sustainable manufacturing initiatives in the product, process and systems areas.
- An emerging researcher showcase which brought together younger researchers from all regions engaged in various sustainable manufacturing-related areas;
- A poster showcase to showcase research projects primarily by young researchers engaged in cutting-edge research in sustainable manufacturing.

The event was sponsored by a National Science Foundation grant and also supported through the generous contributions of several other organizations.