



**MECHANICAL AND INDUSTRIAL ENGINEERING NEWS — SEPTEMBER 2016**

**Message from MIE Department Head Sundar Krishnamurty:**

Greetings! We begin another banner year with a record number of MIE graduates. We are proud of all of our MIE undergraduates, naturally, but we are simply AMAZED by the four students in our department who won an Atlantic-10 Championship as part of the UMass Men's Swimming Team 2016 season. Senior co-captain Alessandro Bombrezzi was named the team MVP. Congratulations to Alessandro, Brian Stiles, Joe Woodman, and Thomas Brennan!

This fall we are thrilled to welcome assistant professor Dr. Shannon Roberts to the department. Dr. Roberts comes to us from the MIT Lincoln Laboratory, where she has been working in her research area of human factors and social networks. She received her Ph.D. in Industrial Engineering from the University of Wisconsin-Madison in 2014. Dr. Roberts will help direct the renowned Human Performance Lab, which has continually garnered international recognition for its pioneering work, including a recent news item in the Washington Post on its Distractology 101, a program designed to teach novice drivers the dangers of distracted driving.

Congratulations are also in effect for faculty member Erin Baker, who received the 2016 Outstanding Senior Faculty Award in the College of Engineering from Dean Tim Anderson. Professor Baker continues to direct the groundbreaking UMass IGERT Offshore Wind Energy Program and is a world-recognized leader in her field of energy economics.

Sincerely,

P. Krishnan

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### **Distractology 101 Earns More National News Coverage**

An article appearing in the *Washington Post*, *Idaho Statesman*, and *Charlotte Observer*, among other publications, recently sang the praises of Distractology 101, the life-saving program developed by engineers at UMass Amherst and the Arbella Insurance Foundation. ...[Read more](#)

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### **Juan Jiménez Wins BMES Innovation and Career Development Award**

Assistant Professor Juan Jiménez of the Mechanical and Industrial Engineering Department has received an Innovation and Career Development Award from the Biomedical Engineering Society (BMES), awarded to early career professionals to promote career development in the field of biomedical...[Read more](#)

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### **MIE Researchers Receive \$425,000 NSF Grant for Addressing Deadly Cancer Metastasis in Bones**

Principal Investigator Maureen Lynch and Co-Principal Investigator Yahya Modarres-Sadeghi of our Mechanical and Industrial Engineering Department have received a three-year, \$425,000 National Science Foundation award for a project entitled "Mechano-regulation of bone metastatic cancer...[Read more](#)

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### **Lee Awarded UMass President's Grant**

Professor Jae-Hwang Lee of the Mechanical and



Industrial Engineering (MIE) Department has received a \$125,000 grant from the University of Massachusetts President's Office to support his project on "Bio-mechanics for Disease Diagnosis and Cell Engineering." **...Read more**

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### **Supermileage Team Builds New Vehicle from Ground up and Finishes 9th at SAE Competition**

At the 37th annual Society of Automotive Engineers (SAE) Supermileage Competition on June 9 and 10, the UMass team finished a very credible 9th place, out of 20 teams, by hitting 463 miles per gallon on the 9.6-mile course at the Eaton Proving Grounds in Marshall, Michigan. **...Read more**

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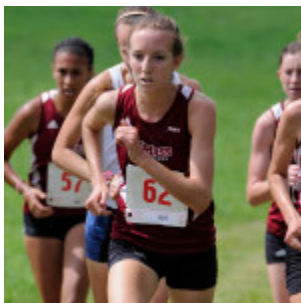


### **Engineering Alums Come Home to Massachusetts for Biennial Conference**

From June 14 to 16, Mechanical and Industrial Engineering (MIE) Department alums Scot Chisholm '04 and Pat Walsh '03 hosted a biennial three-day conference called "The Collaborative" for nonprofits and businesses doing world-changing socially innovative work. Chisholm and Walsh are the co-founders of

Classy, a San Diego company that provides online fundraising technology to nonprofits and other "social enterprises." **...Read more**

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### **Engineering Students Do Double Time as Elite Intercollegiate Athletes**

Engineering is undoubtedly one of the most demanding majors at any university. Engineering students wouldn't want it any other way. But that engineering degree of difficulty didn't stop a passel of hard-pressed engineering students from standing out as intercollegiate competitors. **...Read more**

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### **MIE Senior Design Project Competition Produces Three Big-time Winners**

On April 26 the Mechanical and Industrial Engineering (MIE) Department held its annual Senior Design Project competition, the climax and showcase event for the MIE capstone course, "MIE 415: Design of Mechanical Systems." **...Read more**



### **Baker, Fan, and Bardin Selected as Outstanding Engineering Faculty**

Dean Tim Anderson has announced that faculty members Erin Baker of the Mechanical and Industrial Engineering (MIE) Department, Joseph Bardin of the Electrical and Computer Engineering (ECE) Department, and Wei Fan of the Chemical Engineering (ChE) Department have been selected as outstanding faculty in the College of Engineering for 2016. **...Read more**



### **Research Next Profiles Four Engineering Rising Researchers**

Four College of Engineering undergraduate students were among the eight so-called "Rising Researchers" throughout the whole university campus as designated by the UMass Amherst website *Research Next*. **...Read more**



### **Winn Receives Chancellor's Citation**

Professional Technician (II) Rick Winn of the Mechanical and Industrial Engineering (MIE) Department has been selected as one of the 10 staff members at UMass Amherst to receive the 2016 Chancellor's Citation. Winn is responsible for the supervision of the entire MIE student shop, recently upgraded and renovated into the



Altra Industrial Motion Innovation Shop...[Read more](#)

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**Mullen Named One of MedTech Boston 40 Under 40 Healthcare Innovators**

Brian Mullen, who earned his Ph.D. in Mechanical Engineering at UMass Amherst, has been named one of **The 2016 MedTech Boston 40 Under 40 Healthcare Innovators**. ...[Read more](#)

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**MIE Alumnus Is Member of Million-Dollar Team That Wins International “Robots for Good” Competition**

UMass alumnus Mike McKinley, a graduate of our Mechanical and Industrial Engineering (MIE) Department, was part of a research team from the University of California at Berkeley and suitX (a California-based robotics company designing and manufacturing medical and industrial exoskeletons) which won the \$1-million prize at the international “Robots for Good” competition in Dubai, the United Arab Emirates. ...[Read more](#)

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**Nagarajan Wins Oral Presentation Award at American Meteorological Society Annual Meeting**

Aditya Nagarajan, a graduate student in our Mechanical and Industrial Engineering Department, won a Second Place Oral Presentation award at the 14th Conference on Artificial and Computational Intelligence and its application to the Environmental Sciences, which was part of the American Meteorological Society's 96th Annual Meeting in New Orleans, Louisiana, in January. ...[Read more](#)

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