**New professor focuses on the convergence of mechanics, photonics, energy, and biology**

The McCormick School welcomes Cante Sun as an assistant professor in the Department of Mechanical Engineering. Sun comes from the University of California at Berkeley, where as a graduate student researcher he developed a microstereolithography process for fabrication of complex three-dimensional microstructures and devices.

**Cate Brinson takes the helm!**

Cate Brinson, former graduate student at the McCormick School of Engineering and Applied Science, is now an assistant professor in the Department of Mechanical Engineering.

**Jan Achenbach receives National Medal of Science**

Jan Achenbach, professor of mechanical engineering at Northwestern University, received the National Medal of Science on February 15, 2013.

**Robert R. McCormick School of Engineering and Applied Science**

Northwestern University


Faculty honors and awards

L. Catie Brinson was awarded a new book, "Fisher-Price Engineering and Sustainability.
Siddharth Krishna and the Center for Quality Engineering and Failure Prevention received a Partnership for Strengthening Education and Research (PRESR) grant from the National Science Foundation. The five-year, $1.5 million program will catalyze a partnership of universities, laboratories, and companies.
Weihong Chen was elected to the advisory board of the Design Society.
Eduardo Correa (left) was named the editor-in-chief of the IEEE Transactions on Haptics.
James Coutney was awarded “Faculty of the Year” by the Master of Product Development Program.
Izzat Dibai was elected Member of the Academy for Composites.
Kirti Ghandhi received the 2006 SME (Society of Manufacturing Engineers) Gold Medal Award.
Horacio Espinosa was elected fellow of the American Society for Mechanical Engineering.
James Conley was awarded “Faculty of the Year” by the Master of Product Development Program.

ASME Applied Mechanics Division honors Ted Belytschko

Ted Belytschko, Walter Murphy Professor of Mechanical Engineering, is the new president of the American Society of Mechanical Engineers. The society’s Applied Mechanics Division Award was presented to Ted Belytschko Applied Mechanics Division Award. The 18 awards are given in the fields of Applied Mechanics, Fluid Mechanics, Solid Mechanics, Biomechanics, Space Mechanics, and Thermodynamics.
Liu’s research is focused on the development of advanced materials and devices. His work has both practical and social importance.

Professor Chang Liu joins mechanical engineering department

Professor Chang Liu joined the Department of Mechanical Engineering at the fall of 2006. Liu researches on robotic simulation, artificial intelligence, and computational mechanics. His recent interests focus on developing advanced micro- and nanofabrication technology and applying it in the MEMS area, published by Prentice-Hall.

Exploring the depths of space: Research helps solve problems for missions to Saturn and beyond

To boldly go where so far we have not gone before. It is a goal that has driven the scientific and engineering community for decades. Many of us have spent our careers designing and developing technology for space missions. Professor Richard Lueptow’s research has found application in unmanned exploring the moons of Saturn. After publishing several papers with his students, Michael Peshkin and And Peshkin, Professor Lueptow was awarded by NASA in the development of acoustic sensors for detecting gas in spacecraft instruments.

Building better prosthetic limbs

While some people have had unsuccessful attempts to receive a bionic foot, the work of Mitchell, a single-arm amputee outfitted with a prosthetic arm, is making an impact in the field of prosthetics. Mitchell’s single- arm amputation has been a significant part of his research in prosthetics. His work in prosthetics has focused on developing advanced prosthetic technology that can be used to improve the quality of life for amputees.

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ASME Applied Mechanics Division honors Ted Belytschko

Ted Belytschko, Walter P. Murphy Professor of Engineering, is the new chair of the American Society of Mechanical Engineers (ASME). The society’s Applied Mechanics Division Award was recently presented to Belytschko Applied Mathematical Division chair and vice president and awards banquet chair, Oct. 23.

The Applied Mechanics Division is dedicated to outstanding service for significant contributions to the field. The society’s Applied Mechanics Division Chair conveys the award to Belytschko at a ceremony of the Applied Mechanics Division Awards Banquet. Oct. 23.

The Applied Mechanics Division recognizes Belytschko for his outstanding contributions to the field of applied mechanics. His work in computational mechanics, including his development of the finite element method, has had a profound impact on the field of applied mechanics. His research has focused on the development of advanced computational methods for the simulation of complex engineering systems, including the simulation of fluid-structure interactions, material failure, and the design of advanced mechanical components. His work has led to the development of new methods for the analysis of complex engineering problems, including the simulation of complex fluid-structure interactions, material failure, and the design of advanced mechanical components. His work has been widely adopted in industries ranging from aerospace to automotive, and has had a significant impact on the development of new technologies and methodologies for the design and analysis of complex engineering systems.

Professor Chang Liu joins mechanical engineering department

Professor Chang Liu joins the Department of Mechanical Engineering at the University of Illinois at Urbana-Champaign. Liu is renowned for his work in the field of intelligent materials and has made significant contributions to the development of new materials and technologies that can enable the design of advanced mechanical components with enhanced performance. His research has focused on the development of new materials and technologies that can enable the design of advanced mechanical components with enhanced performance. His work has been recognized with numerous awards and honors, including the National Science Foundation CAREER Award, the American Society for Engineering Education (ASEE) New Faculty Award, and the University of Illinois at Urbana-Champaign Faculty Excellence Award.

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Exploring the depths of space Research helps solve problems for missions to Saturn and beyond

“……to boldly go where no man has gone before.”

It’s a lofty goal, and a logistical nightmare. As scientists prepare Spacecraft to explore the outer reaches of the solar system, they are challenged with designing for environments where there are often more questions than answers. Ted Belytschko, Walter P. Murphy Professor of Engineering, believes that his research could provide tools to help NASA and the European Space Agency (ESA) navigate the complex environments of the outer solar system. Belytschko’s research has found application in unmanned exploring the moons of Saturn. After publishing several papers with professor Dan Gauthier and Andre Peshkin about their work on the development of acoustic sensors for detecting gases in space, Belytschko is looking to bring his research to the Cassini-Huygens mission.

This five-year, $2.5 million program will establish a global partnership between the National University of Singapore and the University of Illinois at Urbana-Champaign. The partnership will focus on the development of new materials and technologies that can enable the design of advanced mechanical components with enhanced performance. His work has been recognized with numerous awards and honors, including the National Science Foundation CAREER Award, the American Society for Engineering Education (ASEE) New Faculty Award, and the University of Illinois at Urbana-Champaign Faculty Excellence Award.

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ASME Applied Mechanics Division honors Ted Belytschko

Ted Belytschko, Walter R. Murphy Professor of Engineering, is the 2007 recipient of the American Society of Mechanical Engineers' (ASME) Applied Mechanics Division Award. The society’s Applied Mechanics Division Award was established the Ted Belytschko Applied Mechanics Award in the 1990s to recognize outstanding contributions in the field of applied mechanics. The award was created in honor of Belytschko, who has spent his entire career at Cornell University, where he is currently a professor in the School of Mechanical and Aerospace Engineering.

Belytschko earned a B.S. degree in applied mechanics from the California Institute of Technology in 1973. He obtained an M.S. degree in mechanical engineering from the University of California at Berkeley in 1974 and a Ph.D. degree in mechanical engineering from Stanford University in 1978.

Belytschko is editor-in-chief of the International Journal for Numerical Methods in Engineering, is an associate editor of the Journal of Applied Mechanics, has served as associate editor of Computer Methods in Applied Mechanics and Engineering, an editor of the journal Numerical Methods in Engineering, and has contributed to a number of other journals and proceedings.

Belytschko is also a member of the National Academy of Engineering and the Royal Academy of Sciences, and is a fellow of the American Physical Society, the American Society of Mechanical Engineers, the American Society of Civil Engineers, and the American Society for Engineering Education.

Belytschko has published extensively in the field of applied mechanics and has received numerous awards and honors for his contributions. He has been elected a fellow of the American Society of Mechanical Engineers, the American Society of Civil Engineers, and the Society of Automotive Engineers.

Belytschko has been a member of the editorial board of the Journal of Applied Mechanics, the Journal of Engineering Mechanics, and the Journal of Engineering for Gas Turbines and Power. He has also served on the editorial board of the Journal of Applied Mechanics.

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New professor focuses on the convergence of mechanics, photonics, energy, and biology

Cate Brinser takes the helm!

C ate Brinser, Jerome B. Cohen Professor of Engineering, started her term as chair of the mechanical engineering department in September. After PhD from Caltech in theoretical mechanics and research on smart materials at the German Air and Space Agency, Brinser joined the faculty at Northwestern in 1992. She recently developed a group specializing in advanced materials, where projects range from microresonator action for biosensors to nanoelectromechanical systems for aerospace applications. Her work moves from theoretical materials descriptions to synthesis and characterization. She has delivered many invited talks in her research, most recently in Beijing, China, as part of a U.S.-China Bio-Nano-Mechanics Workshop. Brinser also serves on the National Materials Advisory Board of the National Academies and has participated in the recent study on benchmarking U.S. competitiveness in mechanical engineering. This background provides an excellent platform for her term as chair of the ME department. “We have such a fabulous array of talent in the ME department from ANU at all levels. ME of the future is not just about big machines; it is about nanotechnology! I am excited about this new era of research and teaching in mechanics and engineering sciences,” Brinser says.

During the course of this doctoral research, Sun became interested in integrating mechanical engineering and biology for basic science applications. Having studied several areas of fluid dynamics, Sun’s work is highlighted in his doctoral dissertation topic of Micro-stereolithography. He is now working on the development and characterization of novel materials for energy conversion and bio-sensing, as well as a 3-D fabrication methods for potential tissue engineering applications. Successful implementations of his research have the potential to dramatically improve the capability of biomedical diagnostics as well as energy conversion.

Jan Achenbach receives National Medal of Science

J an O. Achenbach, Robert P. Murphy Professor and Director of the McCormick School of Mechanical Engineering, Civil and Environmental Engineering and Applied Mechanics, received the National Medal of Science from President George W. Bush at a White House ceremony on Friday, July 27, 2007. Achenbach is honored for his seminal contributions to wave motion in solids and for pioneering the field of quantitative non-destructive evaluation.

The National Medal of Science honors individuals for pioneering research in a range of fields — including physical, biological, mathematical, social, and engineering sciences — that advance understanding of the evolving frontiers in innovations that give the United States its global economic edge. The National Science Foundation submits the awards, which were established by Congress in 1959. Achenbach, who joined Northwestern in 1965, is a preeminent researcher in solids mechanics and quantitative non-destructive evaluation. He has made major contributions in the field of propagation of mechanical disturbances in solids. He has achieved important results in quantitative non-destructive evaluation of materials, damage mechanisms in composites, and vibrations of complex structures.

He has developed methods for flaw detection and has contributed to the development of advanced scattering methods. Achenbach’s work has been both analytical and experimental. He has also achieved a unique partnership between mechanics and the mechanical behavior of composite materials under dynamic loading conditions, and on the design of composite propellers.

Achenbach is chair of Northwestern’s Center for Quality and Reliability, a institute that is dedicated to developing education and research in the area of quality control in industrial systems, with profound impact on the aircraft industry particularly the evolving of aging aircrafts.

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Cate Brinson takes the helm!

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J an D. Achenbach, Robert W. Murphy Professor and Director of the McCormick School of Mechanical Engineering, Civil and Environmental Engineering and Applied Mechanics, received the National Medal of Science from President George W. Bush at a White House ceremony on Friday, July 20, 2007. Achenbach was honored for his seminal contributions to the development of the field of non-destructive evaluation of materials and has made major contributions in the field of propagation of mechanical disturbances in solids. He has achieved important results on quantitative non-destructive evaluation of materials, damage mechanisms in composites, and vibrations of complex structures.

Achenbach is founder of Northwestern’s Center for Quality Engineering and Failure Prevention, a state-of-the-art laboratory for nondestructive evaluation. He has been elected a Corresponding Member of the Royal Dutch Academy of Sciences, a fellow of the American Institute of Achenbach, who joined Northwestern in 1963, is a preeminent researcher in solid mechanics and quan-}

Robert R. McCormick School of Engineering and Applied Science
Northwestern University