Mechanical Engineering

Career Celebration & Senior Appreciation

May 9, 2014
Program Agenda

All events are located inside the John M. Clayton Hall
*Bus tours meet outside & include tour of ME facilities

1:00pm  Campus Bus Tour*
1:30pm  Campus Bus Tour*
2:15pm  Registration
3:00pm  Welcome & Overview by Suresh Advani
         Mechanical Engineering
3:15pm  Senior Design Teams Recognition & ASME Outstanding Projects Award
4:00pm  Student Honors & Awards
4:30pm  Alumni Distinguished Career Awards & Panel Discussion
5:45pm  Networking & Socializing
6:15pm  Senior & Alumni Appreciation Dinner
         Closely followed by special senior design awards
7:30pm  Keynote Address by Terri Kelly, ’83
         President & CEO, W.L. Gore & Associates & 2006 DCA Honoree
Welcome & Overview

Suresh G. Advani

Dr. Suresh G. Advani, George W. Laird Professor and chair of the Department of Mechanical Engineering, joined the UD faculty in 1987. He earned his bachelors of technology in mechanical engineering from the Indian Institute of Technology, Bombay, and his doctoral degree in mechanical engineering from the University of Illinois at Urbana-Champaign. His research interests include materials, rheology, fluid mechanics and heat transfer in composite processing, fuel cells and hydrogen storage. Advani, who is also the associate director of the Center for Composite Materials and co-investigator of University of Delaware’s fuel cell bus program, is the co-author and editor of 20 books and over 250 journal publications. Since 2000, he has served as the North American editor for the journal Composites Part A; Applied Science and Manufacturing and has chaired multiple international conferences surrounding the liquid molding of composites. Advani was elected a fellow of ASME in 1998 and received the University’s Outstanding Doctoral Graduate Student Advising and Mentoring award in 2008.
3:15pm

Senior Design Teams Recognition & ASME Outstanding Presentation Awards

**Team DePuy-Synthes**
Lauren Kewley, Adam Simays, Jessica Corson, Brian Lazzaro

**Team Dow**
Rachael Lutchmedial, Alexander Statchnik, Jessica Harrington, Anthony Vacaro, Nicholas Bishop

**Team Southco**
Yehan Zhang, Yingshuo Fu, Frederick Mauer, Geoffrey Lukin, Benjamin Natrin
### Senior Awards

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<thead>
<tr>
<th>Award</th>
<th>Recipients</th>
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<tr>
<td>W. Francis Lindell Distinguished Senior Awards</td>
<td>Katherine R. Bagwell, Austin M. Bragg, Frederick Mauer</td>
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<tr>
<td>Mary and George Nowinski Award for Excellence in Undergraduate Research</td>
<td>Brandon K. Zimmerman</td>
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<tr>
<td>W. Francis Lindell Mechanical Engineering Achievement Awards</td>
<td>Kelsey A. Devlin &amp; Xiaoyu Gu</td>
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<tr>
<td>Outstanding Senior Award</td>
<td>Jessica M. Corson &amp; Benjamin A. Henry</td>
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### Junior Awards

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<tr>
<th>Award</th>
<th>Recipients</th>
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<tbody>
<tr>
<td>W. Francis Lindell Distinguished Junior Awards</td>
<td>Joseph S. Esposito &amp; Rebecca L. Runkle</td>
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<tr>
<td>Outstanding Junior Award</td>
<td>Elizabeth A. Gorman &amp; Jessica E. Penman</td>
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### Other Departmental Awards

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<tr>
<th>Award</th>
<th>Recipients</th>
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<tr>
<td>ASME Delaware Section Outstanding Student Award</td>
<td>Brian C. Bird</td>
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<tr>
<td>ASME Student Section Award</td>
<td>Elizabeth A. Gorman</td>
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<tr>
<td>Outstanding Student Leader Awards</td>
<td>Kathryn K. Ordemann &amp; Laura Van Der Post</td>
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<tr>
<td>Graduate Achievement Awards</td>
<td>G. Ozan Erol &amp; Adam Stager</td>
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<tr>
<td>Graduate Teaching Assistant Award</td>
<td>Andrew M. Baker</td>
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<tr>
<td>Outstanding Sophomore Award</td>
<td>Hunter L. Bachman</td>
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NELSON S. EVERHART III, ‘68, is a self-described change agent who specializes in creating order out of chaos when it comes to company operations. He began his career as a project engineer for General Foods Corporation and served in the U.S. Air Force during the Vietnam War era. In 1975, he joined Chesebrough-Pond’s (now Unilever) as a senior project engineer. The company assigned him to the major shoe manufacturer, G.H. Bass & Company in the 1980s as director of engineering, then moved him to Canada where he served as vice president of manufacturing and technical services. In the late 1990s, he joined StarPlex Scientific as vice president of operations for the microbiological and specimen collection containers and pharmaceutical packaging company. He has spent more than the last decade building high performance teams as director of quality assurance and plant manager of the Fiber Products Group of U.S. Cotton LLC/American Safety Razor Company.

MEHRAD N. GHASEMI NEJHAD, ‘87M, ‘92Ph.D., is listed in the 2007 Guinness Book of World Records for creating the world’s smallest brush. He and his team from the University of Hawaii Nanotechnology Laboratory created the device, which boasts bristles a thousand times finer than a strand of hair. He chairs the Department of Mechanical Engineering at the University of Hawaii in Manoa. An ASME Fellow, he is the university’s ABET chair for mechanical engineering and the research team leader for the Integrated Research and Education in Renewable Energy and Island Sustainability Program. In 1993, he founded both a composites and smart structures lab at the university and a decade later founded its nanotechnology lab.

PAMELA S. LOTTERO-PERDUE, ‘95, ‘99M, ‘05Ph.D., is associate professor of science education at Towson University. She is a former engineer and high school physics and pre-college engineering teacher, and holds physics teaching certification and graduate degrees in science education. In educating next-generation teachers, she includes engineering in her elementary and early childhood science methods courses and teaches an engineering course she designed for those studying to teach middle school science. She also developed an Engineering in Integrated STEM course as part of a program she directs for practicing elementary teachers. Lottero-Perdue is co-principal investigator on a multistate NSF-funded $3M grant led by the Museum of Science, Boston, and is chair-elect of the K-12 and Pre-College Division of the American Society for Engineering Education.
GREGORY V. SELBY, ‘79M, ‘82Ph.D., blends his love of aerospace engineering, academia and community service in his career pursuits. He spent his early career as a NASA aerospace engineer improving aerodynamics in the design of quieter small aircraft. He then decided to help mold the next generation of mechanical and aerospace engineers as a member of the Old Dominion faculty, on which he has now served for 30 years, chairing the university’s department in the early 90s and still serving as full professor today. Selby visits schools to encourage students toward STEM careers; created a science and engineering workshop series called the Institute for Young PHDs (Persons Having Dreams); and has authored the book “How to Rear a Scientist or an Engineer.”

NYAN-HWA TAI, ‘90Ph.D., is vice president of academic affairs for National Tsing-Hua University in Taiwan. A full professor of materials science and engineering, he joined the faculty in 1998 as associate professor in the Center for Materials Science. His academic appointments include department vice chairman and chair, deputy dean and acting dean of the College of Engineering, and associate vice president of academic affairs. He also served as a visiting scientist at Oxford University in England. He credits UD with sparking his interest in composites research, carbon fiber composites, carbon nanocomposites, carbon/ carbon composites, carbon nanotubes, graphene and ultra nanocrystalline diamond, as well as interference shielding, heat dissipaters, flexible transparent conductive films and electrodes, super capacitors and photothermal therapy of cancer cells. He has authored more than 75 journal papers and holds 12 patents.

7:30pm

Keynote: Terri Kelly, BME ‘83

TERRI KELLY is president and CEO of W.L. Gore & Associates in Newark, Del. This 2006 DCA honoree is a member of the University of Delaware Board of Trustees and is a past member of the College of Engineering Advisory Council.

She serves on the board of directors for the Nemours Foundation, and is a member of the Management Executive Society, G100 and the International Women’s Forum.
Previous Distinguished Career Alumni

2013
Ellen F. Benedict, '75
Brian R. Scott, '84
Alfred J. Unione, '67
Jeffrey C. Weil, '67

2012
Ernest E. Jones '92
Dinesh Mohan '70
Ken Ryder '86
Ann M. Sastry '89

2011
Ann M. Badmus '84
Mark E. Conroy '80
William H. Lotter, Jr. '56
Paul H. Norton '80

2010
Ralph D. Cope '78, '79M
Frank S. Hyer '58
Doug B. McKenna '82

2009
E. Fenton Carey, Jr. '67, '70M
John W. Gillespie, Jr. '76, '78M, '85Ph.D.
E. Douglass Huggard '55, '61M (deceased)
James R. Laser '69
Eric M. Svendsen '71

2008
Martha Meaney Murray '87
Oren B. Phillips '68
Raymond V. Feehery, Jr. '74
James J. Gitney '78
David B. Meyers '81

2007
Donald R. Cohee '67
Michael J. Doyle '92
James B. Fouk '59
Jerome T. Kegelman '78
Jodie L. (Kuchler) Morgan '85
Nancy R. Sottos '86, '91Ph.D

2006
Alan W. Flenner J.D., P.E. '86
Carl W. Hall '50M
Terri L. Kelly '83
Kaushal Kurapati '95M
William G. Mavity '72

2005
Dave T. Bach '77
Alex Bourdon '80
Frederick H. Kohloss '51M
Anthony Laganelli '61M, '66Ph.D.
Amy Lerner '90
Don McCoy '75 (deceased)
Jack N. Pezza '98
Stephen D. Popovich '49
Patrick J. Reynolds '68
John Thackrah '79