The One Hundred Forty-Third
COMMENCEMENT

ELEVEN O’CLOCK • SATURDAY
THE FOURTEENTH OF MAY
TWO THOUSAND ELEVEN
WPI QUADRANGLE

Worcester Polytechnic Institute
Program

Prelude    WPI Brass Ensemble
Douglas G. Weeks, Conductor

Processional    Led by the Honorary Marshal and the
Honorary Marshal for Graduate Students
Full details on page 50

Call to Order    Stephen E. Rubin ’74
Chairman, WPI Board of Trustees

National Anthem    The audience is invited to join in the singing

Invocation    Rev. Fr. Aved Terzian
Armenian Church of Our Savior

Student Remarks    “Growing up at WPI”
Christopher W. Noble ’11

Presentation of the Class of 2011    Laura-Ashley Alegbeleye
Campaign Gift    Rachel Heller

Remarks from the Alumni Association    Joyce Kline ’87, President, Alumni Association

Recognition of ROTC Graduates    Dennis D. Berkey, President
Rear Admiral Lothrop S. Little, Commander,
Navy Reserve Forces Command

Presentation of the Chairman’s Exemplary Faculty Prize    Eric W. Overström, Provost

Conferring of Honorary Degrees    President Berkey

Commencement Address    “Integrity and Achievement”
Rex W. Tillerson, Chairman and CEO, ExxonMobil

Presentation of Candidates for Degrees    Provost Overström

Conferring of Degrees    President Berkey

Charge from the President    President Berkey

Alma Mater    Katelyn Kragenka ’11
Words and music on page 52

Benediction    Rev. Fr. Terzian

Recessional    WPI Brass Ensemble

The audience is requested to remain standing until the end of the national anthem.

At the conclusion of the Commencement exercises, the audience is requested to remain standing until the academic procession has left the Quadrangle.
Several longstanding campus traditions infuse the WPI spirit, two of which will be in evidence during today’s Commencement ceremony.

Crossing Earle Bridge is one of the oldest. To visitors, the bridge is a lovely pathway connecting the east and west sides of campus. For WPI students, the span plays a symbolic role at the start and end of their undergraduate careers. Traditionally, students cross the bridge as an entire class only twice during their four years: at Convocation, when they are welcomed as first year students, and at Commencement, as they process toward the Quadrangle.

Another tradition involves the WPI seal in the center of the Quad. Throughout their four years, undergrads make a point of walking around the seal, for it is said that students who step directly on the landmark won’t graduate on time. That this tradition is upheld is most evident during the snowy winter months. After four years of avoidance (not to mention four years of hard work and intense studying), each graduate walks directly over the seal as part of the Commencement ceremony (weather permitting).

Performing the national anthem are seniors Katelyn Krajenka (conductor), Cassandra Cruz, Madison Dickson, Amanda Eaton, Daniel Lettiere, Taylor Mazzali, Christopher Petrie, Joel Reed, Gina Roffo, Caitlyn Shaddock, and Peter Worrest.

The Senior Class Gift is presented by gift committee chair Laura-Ashley Alegbeleye. This year’s class chose to raise funds for a reflecting pool, to be located in the student memorial garden at Higgins House. This gift is particularly special because the class has chosen to dedicate it in memory of Jonathan “Jon” Rowell, a senior who passed away in February of this year. It will serve as a place for quiet meditation and reflection for current and future members of the WPI community.

Christopher W. Noble ’11, who was selected as this year’s student commencement speaker, is an electrical and computer engineering major with a minor in management. A native of Norwell, Mass., he was inspired at an early age to pursue engineering while working in his father’s camera shop and then through his association with FIRST Robotics.

Throughout his undergraduate career, Chris has excelled both in and out of the classroom. In addition to maintaining outstanding grades, he made time to get heavily involved in the WPI community, serving as treasurer of the Student Government Association (SGA), and later winning election as SGA president in a campus-wide vote. He was initiated as a brother in Phi Kappa Theta fraternity and served as its recruitment chair during his sophomore year.

Chris served as a residential advisor, providing guidance, advice, and compassion to the first year students who lived on his floor. He was also a devoted community advisor, enthusiastically welcoming new students and helping them integrate into the WPI community.

In recognition of his outstanding leadership and on-campus involvement, Chris was awarded the Crimson and Gray Award, which recognizes the top student leaders at WPI. He is a member of the Order of Omega, which honors exceptional leaders in the Greek Community.

Chris will soon embark on a career in submarine design and development with Electric Boat.

See page 50 for more notes on Commencement Day.
The extraordinary advances realized over the past several decades in the speed and power of computers, telecommunications systems, lasers, and other high-tech devices have been made possible by equally impressive strides in our understanding of solid-state physics. L. Ramdas Ram-Mohan, a pioneer in this critical field, has won international acclaim for his research, which has advanced our understanding of the quantum mechanical properties of condensed matter, and for his development of powerful computational tools that have made it possible to precisely control the design of increasingly complex semiconductor and optoelectronic devices.

A member of the WPI faculty for more than three decades, Ram-Mohan directs the university’s Center for Computational Nanoscience, where his work on high-energy physics, condensed matter, and semiconductor physics has resulted in more than 200 peer-reviewed publications that have garnered more than 3,800 citations. One paper alone, a comprehensive review of band parameters for technologically important semiconductors, published in the Journal of Applied Physics in 2001, has been cited more than 1,700 times and is considered a classic in the field.

Ram-Mohan is credited as the founder of wavefunction engineering, a method for specifying certain quantum properties of semiconductor heterostructures, which are assemblies of two dissimilar semiconductor materials that display unique electrical or optoelectronic properties. The innovative methods he developed allow designers to control the growth, geometry, and composition of heterostructures to produce materials to fit specific needs. Wavefunction engineering arises from the application of the finite element method, or FEM, a numerical analysis technique used widely in engineering, to quantum heterostructures. Ram-Mohan, recognized as one of the foremost authorities on FEM, described this new field in his landmark 2002 book, Finite Element and Boundary Element Applications to Quantum Mechanics.

This stellar record has earned Ram-Mohan numerous awards and honors, including election as a fellow of the American Physical Society, the Optical Society of America, the Australian Institute of Physics, and the United Kingdom Institute of Physics. He has received the Engineering Excellence Award of the Optical Society of America and the Department of the Air Force Certificate of Achievement, and he served as the Clark Way Harrison Distinguished Visiting Professor at Washington University in St. Louis in 2005. WPI has recognized his research with the Sigma Xi Senior Faculty Award for Research Excellence and the Board of Trustees’ Award for Outstanding Creative Scholarship and Research. WPI has also bestowed on Ram-Mohan its highest honor for teaching, the Board of Trustees’ Award for Outstanding Teaching, in recognition of his ability to achieve a critical balance between mentoring students and teaching them to think independently, and for his many educational innovations. He has developed a number of new courses in cutting-edge fields, and has delivered invited special courses at universities in Australia, India, and Korea. He is adept at engaging undergraduates directly in his research. In fact, 24 of the major projects he has advised have been recognized with the Provost’s MQP Award.

When not in the laboratory or classroom, Ram-Mohan has been active in service to the university. He has twice served as president of the WPI chapter of the Society of Sigma Xi and has been a member of the faculty Committee on Appointments and Promotions. Within the Department of Physics, he has served on numerous search committees, the tenure committee, and the graduate studies committee, among others.

For his pioneering research in solid-state physics, including the development of elegant computational tools that have helped foster extraordinary advances in electronics, and for his innovative teaching and his service to the university, WPI is proud to confer upon L. Ramdas Ram-Mohan the 2011 Chairman’s Exemplary Faculty Prize.
The year was 1968. Linda Hudson arrived as a freshman at the University of Florida amid a time of great uncertainty and profound change in the United States, with the Vietnam War, Civil Rights, and the women’s movement all reaching critical turning points. As one of the first women in the university’s engineering program, Hudson found herself leading a new era of change, as well, defying the expectations of her male professors and classmates and achieving an academic record of high distinction. She graduated in 1972, one of only two women in her class to earn an engineering degree, and in the years that followed she would achieve many more “firsts” and “onlys” on her way to the top.

Today, as president and chief executive officer of BAE Systems Inc., Hudson is the first woman in the world to lead a major defense contractor. The United States Government frequently calls on her as an expert on defense reutilization and issues related to the nation’s industrial base. *Fortune* has twice named her one of the 50 most powerful women in business, and she was recently profiled in *Forbes*. She has received numerous awards over the course of her career, including the National Defense Industrial Association’s prestigious “Firepower Award” for her contributions to the defense of the United States. The first woman to receive the National Infantry Association’s “Military Order of St. Maurice,” in recognition of her outstanding support of the U.S. Army infantry, she was recently named 2011 USO Woman of the Year.

As a trailblazer herself, Hudson has been passionate about opening doors for others and fostering the talents of the people who work for her. She embraces both the professional and human responsibilities of leadership. “I’m not a touchy-feely kind of leader,” she has said. “I tend to be very decisive and I make decisions quickly. But I think it’s incredibly important to realize that relationships define everything we do, and it’s all about the quality of those relationships that makes an organization work.”

Hudson began her career in 1972 at the Harris Corporation in Melbourne, Fla., as a research and development engineer specializing in satellite and communication systems. She subsequently joined Ford Aerospace and Communications Corporation in Newport Beach, Calif., Martin Marietta in Orlando, Fla., and then General Dynamics Corporation, where she was the first woman to be named a division president. Before becoming president and CEO of BAE Systems, she was president of its Land & Armaments operating group, the world’s largest military vehicle and equipment business. In that capacity, she led operations in South Africa, Sweden, Germany, Turkey, the United Kingdom, and the United States. Her accomplishments included leading the acquisition of Armor Holdings Inc., which effectively doubled the group’s operations.

She has been an active and engaged citizen in all of the communities where she has lived. She was a trustee of Norwich University in Northfield, Vt., and she received the Rising Star award in Burlington, Vt., for serving on the executive boards for the Lake Champlain Chamber of Commerce and the Vermont Business Roundtable and as vice president of the Vermont Women’s Forum. Additionally, she served on the boards of the Charlotte Chamber of Commerce, the United Way of Central Carolinas, the North Carolina Conference for Women, and the McColl School of Business at Queens University of Charlotte.

Hudson currently serves on the USO Worldwide Board of Governors, the Association of the United States Army Council of Trustees, the board of directors of Blue Star Mothers of America, the executive committee of the Aerospace Industries Association, the University of Florida Foundation, and the advisory board for the Women in Engineering Program at the University of Maryland. She is a member of the North Carolina and Washington, D.C., chapters of the International Women’s Forum and the Committee of 200, the premier global organization of women business leaders.

For her leadership, her service to the nation, and the inspiring example she has set for all who wish to blaze their own trails, WPI is honored to confer upon Linda P. Hudson the degree of Doctor of Engineering, Honoris Causa.
“Enlighten the people,” Thomas Jefferson once said, “and tyranny and oppressions of body and mind will vanish like spirits at the dawn of the day.” For more than 25 years, Roberta Schaefer has worked to enlighten the people of Central Massachusetts, promoting informed debate and improved decision making about the policy issues that have a direct impact on their daily lives. A passionate educator, advocate, and policy expert, Schaefer is the founding executive director of the Research Bureau, a nonprofit organization that conducts independent, nonpartisan research and analysis on public policy issues affecting the greater Worcester region. Today she serves as the bureau’s president and CEO.

Schaefer has truly transformed the Research Bureau—and with that, the quality of public discourse and debate in Central Massachusetts. What began as a one-woman shop in 1985 has grown, under her leadership, into a bustling regional center staffed by four professionals who provide expertise in all areas of public policy to the community and local officials. During the same period, Schaefer has researched, authored, and edited more than 200 reports and organized more than 175 public forums. To reach as broad an audience as possible, she and the bureau have made all of these reports and forums available for free on the bureau’s website, thanks to generous financial support from local businesses and foundations.

On issues ranging from taxes and economic development to public education and the state of city neighborhoods, Schaefer has provided information and analysis designed to stimulate dialogue, outline options, and recommend solutions. Public officials and business and community leaders have used her work to debate important issues and make decisions that affect the welfare of every citizen in the community. Since 2000, Schaefer has led the Research Bureau’s citizen-informed government performance measurement program, which has received local, state, and national recognition for its citizen engagement and impact on government performance. In addition, she has directed a successful government performance measurement project initiated by the New England States Government Finance Officers Association.

Widely consulted, Schaefer is often called upon to testify before local, regional, and state committees and to deliver keynote addresses for public service organizations and business events. The work of the bureau has been featured frequently in the Worcester Telegram & Gazette, and covered by the Boston Globe and other media outlets. Schaefer is a regular panelist on Central Mass Chronicles, a local television show, and a frequent guest on WCRN radio programs.

Beyond the Research Bureau, Schaefer served as a member of the Massachusetts Board of Education from 1996 to 2007; she was vice chair of the board from 1998 to 2001. Deeply devoted to her home community, she is a corporator of Bay State Savings Bank, the Greater Worcester Community Foundation, and the Worcester Art Museum, and she serves on the Worcester Mayor’s Task Force on Job Growth and Retention.

Schaefer holds a BA from Queens College of the City University of New York and an MA and PhD in political science from the University of Chicago. With her husband, David Schaefer, professor of political science at the College of the Holy Cross, she has edited two books, Sir Henry Taylor’s The Statesman and The Future of Cities, and authored many articles in professional journals.

For her entrepreneurial spirit, her commitment to enlightening the citizens of Central Massachusetts, and her indelible contributions to the democratic process, WPI is honored to confer upon Roberta Schaefer the degree of Doctor of Humane Letters, Honoris Causa.
As a young Boy Scout in Wichita Falls, Texas, Rex Tillerson aspired to fulfill the ideals of Scouting by working to become trustworthy, loyal, courteous, and brave. Today he continues to follow that path as a business leader. As chairman and CEO of ExxonMobil, he leads the world’s largest publicly traded petroleum and natural gas company, which employs more than 80,000 people on six continents. In addition, he is dedicated to sharing Scout values with new generations as the 33rd National President of the Boy Scouts of America.

Tillerson, who Fortune named one of the “25 Most Powerful People in Business,” graduated from the University of Texas at Austin in 1975 with a bachelor of science in civil engineering. His first job was production engineer for Exxon, and he has remained with the company ever since. Rising through the ranks, he oversaw the company’s oil and gas production, first in Texas, Oklahoma, Arkansas, and Kansas, and later in Russia and parts of the Middle East. He was named senior vice president of Exxon Mobil Corporation in August 2001 and elected president of the corporation and a member of the board of directors in 2004. He became chairman and CEO in 2006.

In that role, Tillerson has led the corporation’s efforts to help address the global challenge of meeting the world’s growing energy needs while reducing emissions. Under his leadership, ExxonMobil has invested billions in new energy supplies to support economic growth, while also significantly improving the corporation’s energy efficiency and developing new technologies to assist in reducing greenhouse gas emissions associated with energy use.

Throughout his career, Tillerson has championed education in science, technology, engineering, and math (STEM). In 2010, he joined the board of Change the Equation, a CEO-led initiative launched by President Barack Obama to cultivate widespread literacy in STEM disciplines. “High-quality education, especially in math, science, technology, and engineering, is critical for the ability of countries to successfully compete and prosper in the 21st century,” Tillerson has said.

Under his leadership, ExxonMobil has invested in new generations of scientists and engineers by dedicating millions of dollars to STEM education to better prepare American students. As a founding member of the National Math and Science Initiative, ExxonMobil supports programs that expand Advanced Placement courses in high schools around the country—including four high schools in Worcester alone. The corporation has partnered with WPI to bring the celebrated ExxonMobil Bernard Harris Summer Science Camp to the university, and also established a scholarship program for minority engineering students. In addition, ExxonMobil is working with the Boy Scouts of America on programs that incorporate STEM education into the Scouting experience. His lifelong love of Scouting was instilled in him by his father, who was, himself, an Eagle Scout. Tillerson also became an Eagle Scout, a distinction achieved by only five percent of Scouts.

Tillerson’s service extends far beyond ExxonMobil and the Scouts. He is a member of the executive committee and a former chairman of the American Petroleum Institute. He is also a trustee of the Center for Strategic and International Studies; a member of the National Petroleum Council, the Business Roundtable, Emergency Committee for American Trade, and the Society of Petroleum Engineers; an honorary trustee of the Business Council for International Understanding; and a member of the Chancellor’s Council and the Engineering Advisory Board at the University of Texas at Austin. He currently serves as vice chairman of the Ford’s Theatre Society, and he previously served as a director of the United Negro College Fund.

For his pioneering spirit, his principled leadership, and his deep-seated belief in the power of STEM education, WPI is honored to confer upon Rex W. Tillerson the degree of Doctor of Engineering, Honoris Causa.
COMMENCEMENT SPEAKERS

2011 Rex W. Tillerson
2010 Curtis M. Schilling
2009 Ursula M. Burns
2008 Jeffrey R. Immelt
2007 Deborah Dunsire
2006 Curtis R. Carlson
2005 Ray Kurzweil
2004 Robert P. Moses
2003 Ellen Ochoa
2002 Dean Kamen 73
2001 Henry B. Schacht
2000 C. Michael Armstrong
1999 Eric Hahn ’80
1998 Ronald L. Zarella ’71
1997 R. Nicholas Burns
1996 Norman C. Augustine
1995 Kathryn C. Thornton
1994 Paul A. Allaire ’60
1993 Cornelius J. Pings
1992 Robert D. Ballard
1991 Frank Newman
1990 Lester C. Thurow
1989 Ralph E. Gomory
1988 Leo J. Thomas Jr.
1987 Robert C. Stempel ’55
1986 Richard W. Lyman
1985 Robert E. Tranquada
1984 John Lott Brown ’46
1983 Harry J. Gray
1982 Howard Thomas Markey
1981 Melvin Kranzberg
1980 Paul MacCreary Jr.
1979 John D. deButs
1978 George W. Hazzard
1977 Jean P. Mayer
1976 Carroll L. Wilson
1975 Kenneth E. Boulding
1974 Elliot Lee Richardson
1973 Glenn W. Ferguson
1972 James F. Danielli
1971 Alvin M. Weinberg
1970 Thomas O. Paine
1969 Daniel J. Evans
1968 Maxwell D. Taylor
1967 Antonio T. Knoppers
1966 Augustus B. Kinzel
1965 Edward W. Brooke
1964 Leonard Carmichael
1963 H. Ladd Plumley
1962 Julius Seelye Bixler
1961 Carlos P. Romulo
1960 James R. Killian Jr.
1959 Frederick Andrew Seaton
1958 Marshall Bertrand Dalton
1957 Carter Lane Burgess
1956 John C. Warner
1955 Clarence H. Linder
1954 Charles F. Kettering
1953 Ray A. Moncrieff
1952 John Davis Lodge
1951 Joel E. Harrell
1950 Leverett Saltonstall
1949 Arthur Stanton Adams
1948 Raymond A. Spruance
1947 J. Lester Perry
1946 Eugene E. Wilson
1945 Karl T. Compton
1945 Ira Mosher
1944 Robert Theobald
1944 Randall Jacobs
1943 William Mather Lewis
1942 George H. Blakeslee
1941 Harry G. Stoddard
1940 Charles Francis Adams
1939 Bruce Barton
1938 William F. Durand
1937 Josephus Daniels
1936 Bancroft Gherardi
1935 Charles R. Gow
1934 Channing H. Cox
1933 Homer L. Ferguson
1932 John T. Donovan ’82
1931 Samuel M. Vauclain
1930 Robert I. Rees
1929 William H. Hobbs
1928 E. B. Craft
1927 William E. Wickenden
1926 John E. Aldred
1925 Ralph Earle
1924 George F. Swain
1923 Benjamin O. Johnson ’00
1922 Frank Farnum Dresser
1921 Everett J. Lake
1920 G. Stanley Hall
1919 Franklin D. Roosevelt
1918 Spencer Miller ’79
1917 Leo H. Baekeland
1916 Austin M. Knight
1915 Richard C. Maclaurin
1914 Mortimer E. Cooley
1913 Ira N. Hollis
1912 Frederick P. Fish
1911 William T. Sedgwick
1910 Ira N. Hollis
1909 James Pierpont ’86
1908 James Logan
1907 Charles F. Scott
1906 Charles G. Washburn
1905 Robert Fletcher
1904 Ira Remsen
1903 O. H. Tittmann
1902 John K. Rees
1901 Nathaniel S. Shaler
1900 Edward S. Morse
1899 John R. Procter
1898 H. S. Pritchett
1897 Roger Wolcott
1897 G. Stanley Hall
1896 Stephen Salisbury
1896 Roger Wolcott
1895 Frederick T. Greenhalge
1894 Homer T. Fuller
1893 None
1892 A. W. Greeley
1891 Francis A. Walker
1890 Woodrow Wilson
1889 J. W. Powell
1888 George H. Williams
1887 Robert H. Thurston
1886 Birdsye G. Northrop
1885 Daniel C. Gilman
1884 Eustace C. Fitz
1883 Homer T. Fuller
1882 Alexander McKenzie
1881 William R. Ware
1880 Joshua L. Chamberlain
1879 Rossiter W. Raymond
1878 George S. Boutwell
1877 Paul A. Chadbourne
1876 Francis A. March
1875 Thomas Hill
1874 Josiah P. Cook
1873 Emory Washburn
1872 Andrew P. Peabody
1871 William Trowbridge
Laila I. Abu-Lail
BS, Jordan University Of Science and Technology;
MS, Worcester Polytechnic Institute
CIVIL ENGINEERING—
“Removal of Chloroform and MTBE From Water
by Adsorption Onto Granular Zeolites: Equilibrium,
Kinetic, and Mathematical Modeling Study”
Advisor: John A. Bergendahl
Awarded: February 24, 2011

Kahraman Daglar Akdemir
BS, Sabanci University, Turkey;
MS, Worcester Polytechnic Institute
ELECTRICAL AND COMPUTER ENGINEERING—
“Error Detection Techniques Against Strong Adversaries”
Advisor: Berk Sunar
Awarded: February 24, 2011

Ali Khaled Bourisly
BS, Marquette University;
M.Engr. Worcester Polytechnic Institute
BIOMEDICAL ENGINEERING—
“Neuronal Correlates of Diacritics and an
Optimization Algorithm for Brain Mapping and
Detecting Brain Function by Way of Functional
Magnetic Resonance Imaging”
Advisor: Christopher H. Sotak

Xiaoshu Dai
BS, Beijing University of Chemical Technology;
MS, Worcester Polytechnic Institute
MATERIALS SCIENCE AND ENGINEERING—
“Synthesis and Processing of Polymers for
Biomedical Applications”
Advisor: Satya Shivkumar

Emily Jennings Evans
BS, University of Utah
MATHEMATICAL SCIENCES—
“Extension Operators and Finite Elements for
Fractal Boundary Value Problems”
Advisor: Umberto Mosco

Alexi M. Girgis
BS, MS, Worcester Polytechnic Institute
PHYSICS—
“Finite Element Method Modeling of Optroconductance
in Metal-Semiconductor Hybrid Devices”
Advisor: L. Ramdas Ram-Mohan
Awarded: February 24, 2011

Wenxuan Guo
BS, MS, Huazhong University of Science and
Technology, China
ELECTRICAL AND COMPUTER ENGINEERING—
“Resource Allocation and Performance Optimization
in Wireless Networks”
Advisor: Xinming Huang

Vishwanath Iyer
BE, University of Mumbai, India;
MS, Utah State University
ELECTRICAL AND COMPUTER ENGINEERING—
“Broadband Impedance Matching of Antenna Radiators”
Advisor: Sergey Makarov
Awarded: February 24, 2011

Deniz Karakoyunlu
BS, Sabanci University, Turkey;
MS, Worcester Polytechnic Institute
ELECTRICAL AND COMPUTER ENGINEERING—
“Efficient Side-Channel Aware Elliptic Curve
Cryptosystems over Prime Fields”
Advisor: Berk Sunar
Awarded: October 7, 2010

Choong-Soo Lee
BA, Wesleyan University;
MS, Worcester Polytechnic Institute
COMPUTER SCIENCE—
“A Credit-based Home Access Point (CHAP) to
Improve Application Quality on IEEE802.11 Networks”
Advisor: Mark L. Claypool
Awarded: October 7, 2010

Xuekun Li
MS, Shanghai Jiao Tong University, China
MANUFACTURING ENGINEERING—
“Modeling and Simulation of Grinding Processes
Based on a Virtual Wheel Model and Microscopic
Interaction Analysis”
Advisor: Yiming Rong
Awarded: October 7, 2010

Natalie Lynn Pomerantz
BS, Ben Gurion University, Israel
CHEMICAL ENGINEERING—
“Sulfur Poisoning and Tolerance of High Permeance
Pd/Cu Alloy Membranes for Hydrogen Separation”
Advisor: Yi Hua Ma
Awarded: October 7, 2010
Pallavi Satish Rane  
B.E., V.I.T. Pune University,  
MS, Southern Methodist University  
BIOMEDICAL ENGINEERING—  
“Rat Model of Pre-Motor Parkinson’s Disease: Behavioral and MRI Characterization”  
Advisor: Christopher H. Sotak

Muhammad Qaiser Saleem  
BS, MS, University of Engineering and Technology, Pakistan  
MANUFACTURING ENGINEERING—  
“Helium Assisted Sand Casting of Aluminum Alloys”  
Advisor: Makhlouf M. Makhlouf

Mohammed Salman Shazeeb  
BS, Boston University;  
M.Eng, Worcester Polytechnic Institute  
BIOMEDICAL ENGINEERING AND MEDICAL PHYSICS—  
“MRI Contrast Agent Studies of Compartmental Differentiation, Dose-dependence, and Tumor Characterization in the Brain”  
Advisor: Christopher H. Sotak  
Awarded: February 24, 2011

John Nathan Shutt  
BS, MS, Worcester Polytechnic Institute  
COMPUTER SCIENCE—  
“Fexprs as the Basis of Lisp Function Application; or, Sva: the Ultimate Abstraction”  
Advisor: Michael A. Gennert  
Awarded: February 24, 2011

Krishna Prasad Sigdel  
MS, Worcester Polytechnic Institute  
PHYSICS—  
“Phase Transition Studies of Liquid Crystal Colloids with Solvents and Nano-Solids”  
Advisor: Germano S. Iannacchione

Ronn Philip Walvick  
BS, New Jersey Institute of Technology;  
MS, Pennsylvania State University  
BIOMEDICAL ENGINEERING AND MEDICAL PHYSICS—  
“Magnetic Resonance Imaging of Neural and Pulmonary Vascular Function”  
Advisor: Christopher H. Sotak  
Awarded: February 24, 2011

Yue Wang  
BS, Shanghai University, China;  
MS, Worcester Polytechnic Institute  
ELECTRICAL AND COMPUTER ENGINEERING—  
“Network Coding in Multihop Wireless Networks: Throughput Analysis and Protocol Design”  
Advisor: Wenjing Lou

Shucheng Yu  
MS, Tsinghua University, China  
ELECTRICAL AND COMPUTER ENGINEERING—  
“Data Sharing on Untrusted Storage with Attribute-Based Encryption”  
Advisor: Wenjing Lou  
Awarded: October 7, 2010
DEGREE OF
MASTER OF SCIENCE

Sena Ada
Chemical Engineering
Awarded October 7, 2010

Joseph Komlan Adadjo
Electrical and Computer Engineering

Albert Arthur Adams III
Biomedical Engineering
Awarded October 7, 2010

Gregory Guy Adams
Manufacturing Engineering

Nakisa Alborzfard
Construction Project Management

Jorge Adrian Alejandro
Electrical and Computer Engineering
Awarded October 7, 2010

Florent Allain
Chemical Engineering

Yahya Ibrahim Alzain
Materials Science and Engineering
Awarded February 24, 2011

Carolyn Marie Andrews
Systems Engineering

Kalvin M. Anglin Sr.
Electrical and Computer Engineering

Michelle Denise Arata
Biology and Biotechnology

Daniel Joseph Asselin
Mechanical Engineering

Daniel Emery Audesse
Electrical and Computer Engineering

Vivian Jane Auer
Mechanical Engineering

Pavani Bandi
Information Technology
Awarded February 24, 2011

Nikhil Dilip Bapat
Mechanical Engineering

Rajashree Ishwar Baradur
Information Technology

Brandin Jay Barber
Systems Engineering

Adam Michael Barowy
Fire Protection Engineering
Awarded October 7, 2010

Susan F. Bataller
Systems Engineering

Girish Behal
Electrical and Computer Engineering

Victoria Louise Bennett
Systems Engineering

Brian Cleve Benson Jr.
Mechanical Engineering

Brian Arthur Betts
Power Systems Management

Dhiren Chander Bhatia
Information Technology

Megan Lynn Bickford
Fire Protection Engineering

Celine A.M. Bilodeau
Power Systems Management

Mathew Allen Biron
Electrical and Computer Engineering

Kevin Matthew Black
Fire Protection Engineering

Leena Bondale
Information Technology

Cecilia Borgonovo
Materials Science and Engineering
Awarded October 7, 2010

Sarah Megan Boyar
System Dynamics

Zachary Reynolds Broderick
Computer Science

Benjamin Robert Buck
Electrical and Computer Engineering
Awarded February 24, 2011

Kelly Patricia Butler
Mechanical Engineering

Peter Dominic Cacciatore
Civil Engineering

Brenda Calnan
Systems Engineering

Matthew Calvin Campbell
Electrical and Computer Engineering

Jinqian Cao
Financial Mathematics

Junya Cao
Operations Design and Leadership
Awarded February 24, 2011

Michael William Carroll
Systems Engineering

Andrew Finan Cavanaugh
Electrical and Computer Engineering
Awarded February 24, 2011

Anthony Joseph Cerminara
Electrical and Computer Engineering
Awarded February 24, 2011

Yixin Chang
Operations Design and Leadership

Lichen Chen
Financial Mathematics
Awarded February 24, 2011

Yi Dan Chen
Systems Engineering
Brendan Francis Chenelle  
*Mechanical Engineering*  
Awarded February 24, 2011

Chuo-Ting Cheng  
*Marketing and Technological Innovation*  
Awarded February 24, 2011

Chun-Min Chou  
*Materials Science and Engineering*

Michael Robert Christiansen  
*Construction Project Management*  
Awarded February 24, 2011

Jacqueline Cintron  
*Manufacturing Engineering*  
Awarded October 7, 2010

Joseph Robert Ciras  
*Mechanical Engineering*

George Arthur Colby Jr.  
*Systems Engineering*

Jameson John Collins  
*Electrical and Computer Engineering*

Haley Marie Connelley  
*Mechanical Engineering*

James Carson Cook  
*Fire Protection Engineering*  
Awarded February 24, 2011

Matthew T. Corcoran  
*Systems Engineering*

Michael Steven Costa  
*Electrical and Computer Engineering*

John Michael Costello Jr.  
*System Dynamics*  
Awarded October 7, 2010

Douglas R. Couto  
*Electrical and Computer Engineering*  
Awarded October 7, 2010

Steven William Cove  
*Electrical and Computer Engineering*

Jason D. Cuthbert  
*Systems Engineering*

Randall Leonard Cyr  
*Environmental Engineering*

Matthew Daniel Dailey  
*Computer Science*

Sophia Mary D’Angelo  
*Chemical Engineering*

James M. Daniel  
*Mechanical Engineering*

Lyubomir Hristov Deliginev  
*Civil Engineering*

Lauren Marie Demers  
*Operations Design and Leadership*  
Awarded October 7, 2010

Francisco T. De Molina Cobo  
*Electrical and Computer Engineering*

Stacey Ann DePasquale  
*Civil Engineering*  
Awarded October 7, 2010

Anuja Amish Desai  
*Manufacturing Engineering*

Nandishkumar Desai  
*Mechanical Engineering*  
Awarded October 7, 2010

Kevin Eric DeTerra  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Mark Dignum  
*Mechanical Engineering*

Michal Andrzej Dobosz  
*Computer Science*

Michael Patrick Doran  
*Electrical and Computer Engineering*

Matthew Paul Downey  
*Mechanical Engineering*

Diane Gramer Drew  
*Systems Engineering*

Zhiting Duan  
*Electrical and Computer Engineering*

Scott Michael Duane  
*Mechanical Engineering*  
Awarded February 24, 2011

Heath C. Dube  
*Electrical and Computer Engineering*

Christian Felix Durach  
*Operations Design and Leadership*

Derek Real Duval  
*Fire Protection Engineering*

Wael Mohamad El Khatib  
*Mechanical Engineering*

Corinna Lee Ellis  
*Mechanical Engineering*

Adam Michael Epstein  
*Marketing and Technological Innovation*

Andrew Dudley Faden  
*Bioscience Administration*  
Awarded February 24, 2011

Gale M. Fairweather  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Mark Anthony Fangiullo  
*Power Systems Management*

Warren Wightman Farr III  
*System Dynamics*

Bingxin Fei  
*Financial Mathematics*

Jiamian Feng  
*Information Technology*

Yu Feng  
*Computer Science*  
Awarded February 24, 2011

Donald Frederick Fleury  
*Systems Engineering*

Marissa Elizabeth Flynn  
*Electrical and Computer Engineering*

Aasta Frascati-Robinson  
*Information Technology*
Mark Francis Fraser  
*Power Systems Management*  
Awarded October 7, 2010

Christopher Daniel Gabrielson  
*Mechanical Engineering*

Alison Marie Galasso  
*Civil Engineering*

Matthew P. Gallant  
*Civil Engineering*

Matthew E. Gann  
*Systems Engineering*

Wei Gao  
*Operations Design and Leadership*

Yacan Gao  
*Marketing and Technological Innovation*

Andrew Charles Gilday  
*Operations Design and Leadership*

Sandeep Goel  
*Information Technology*

Adam Benjamin Goldstein  
*Computer Science*

Tracy L. Golinveaux  
*Fire Protection Engineering*  
Awarded October 7, 2010

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*Mechanical Engineering*  
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*Computer Science*

Eric Philip Greer  
*Computer Science*  
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Chenchen Gu  
*Financial Mathematics*

Morgan Lee Guardino  
*Mechanical Engineering*

Evan M. Guarino  
*Civil Engineering*

Na Guo  
*Marketing and Technological Innovation*

Garabed Paul Hagopian  
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Michael Steven Hall  
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Seungphil Han  
*Fire Protection Engineering*  
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Alex J. Hansen  
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*Computer Science*  
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Michael Thomas Hathaway  
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Arno Scoville Hautala  
*Systems Engineering*  
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*Fire Protection Engineering*

Shiquan He  
*Applied Statistics*

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*Electrical and Computer Engineering*  
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Mehmet Fuat Hergunsel  
*Civil Engineering*

Roxanne M. Hinders  
*Fire Protection Engineering*  
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Arthur Ryan Hitch  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

James Charles Hogan  
*Civil Engineering*

Aaron G. Holroyd  
*Computer Science*

Tiantian Hou  
*Marketing and Technological Innovation*

Gregory Richard Hovagim  
*Electrical and Computer Engineering*

Jason Zicheng Hu  
*Biomedical Engineering*  
Awarded October 7, 2010

Yuhan Hua  
*Marketing and Technological Innovation*

Bryan Michael Hudock  
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Kenneth Michael Izor  
*Manufacturing Engineering*  
Awarded October 7, 2010

Elena Kathleen Janice  
*Environmental Engineering*

Amanda Rose Jenkins  
*Civil Engineering*

Daniel S. Jennings  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Xuan Ji  
*Information Technology*

Zhijia Jin  
*Materials Science and Engineering*

Eric Ryan Johnson  
*Fire Protection Engineering*

Saly S. Kadhum  
*Civil Engineering*

Rabin Karki  
*Computer Science*  
Awarded February 24, 2011
Paul Gregory Kassebaum  
*Physics*  
Awarded February 24, 2011

Peter Myung Kay  
*Fire Protection Engineering*  
Awarded October 7, 2010

Samson Kay  
*Mechanical Engineering*

Devin W.W. Kelly  
*Electrical and Computer Engineering*

Michael F. Kenny  
*Electrical and Computer Engineering*

Umair Ishaq Khan  
*Electrical and Computer Engineering*

Ronald Allen Kiel  
*Information Technology*  
Awarded October 7, 2010

Erin Marie Kiley  
*Applied Mathematics*

SangHeum Kim  
*Mechanical Engineering*  
Awarded October 7, 2010

Michael Joseph Knoras Jr.  
*Fire Protection Engineering*  
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Natalie Marie Kowalczyk  
*Manufacturing Engineering*  
Awarded October 7, 2010

Emily Katheryn Kreek  
*Materials Science and Engineering*

Sebastian Amadeo LaBella  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Ryan Scott LaFalma  
*Fire Protection Engineering*  
Awarded February 24, 2011

Kristen Maria Lafond  
*Mechanical Engineering*  
Awarded October 7, 2010

Huan Tu Lai  
*Computer Science*

Steven Lamontagne  
*Electrical and Computer Engineering*

Daniel Harrison Lampke  
*Fire Protection Engineering*

Portia Alison Lane  
*Systems Engineering*

Alexander Scott Larsen  
*Mechanical Engineering*

Ryan Michael Lawrence  
*Materials Science and Engineering*

Carlos Jose Lazo  
*Electrical and Computer Engineering*

Minh Anh Le  
*Financial Mathematics*

Bryan A. Leary  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Stephen Kyle Lecrenski  
*Systems Engineering*

Queenie Ho-Kwan Lee  
*Information Technology*

Jody Adele Leggett  
*Marketing and Technological Innovation*  
Awarded February 24, 2011

Jacob Shannon Lemay  
*Mechanical Engineering*

Michael Farrel Leonard  
*Systems Engineering*

Wai-Mun Leung  
*Mechanical Engineering*  
Awarded February 24, 2011

Alexandra Alexandrovna Levshin  
*Mechanical Engineering*

Holly Lewis-Poulin  
*Environmental Engineering*  
Awarded February 24, 2011

Haohan Li  
*Materials Science and Engineering*

Jia Li  
*Information Technology*

Christopher John Lieb  
*Computer Science*

Christine Anne Lima  
*Biology and Biotechnology*  
Awarded October 7, 2010

Jialing Lin  
*Marketing and Technological Innovation*

Katherine Rose Lioy  
*Marketing and Technological Innovation*

Bernard Joseph Lis III  
*Electrical and Computer Engineering*

Chen Liu  
*Marketing and Technological Innovation*

Pu Liu  
*Electrical and Computer Engineering*

Yan Liu  
*Information Technology*

Yi-Hsuan (Kevin) Lo  
*Computer Science*

Timothy Lim Lontz  
*Fire Protection Engineering*  
Awarded October 7, 2010

Anthony Lorusso  
*Electrical and Computer Engineering*

Matthew Steven Lowe  
*Electrical and Computer Engineering*

Robert Dorr Lowry II  
*Mechanical Engineering*

Mengliu Lu  
*Financial Mathematics*
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Awarded Date</th>
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<tbody>
<tr>
<td>Miaoyuan Lu</td>
<td>Marketing and Technological Innovation</td>
<td>February 24, 2011</td>
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<tr>
<td>Mark Werner Lund</td>
<td>Fire Protection Engineering</td>
<td>October 7, 2010</td>
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<td>Sisi Luo</td>
<td>Information Technology</td>
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<td>Gregory D. Lyons</td>
<td>Mechanical Engineering</td>
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<td>Qian Ma</td>
<td>Operations Design and Leadership</td>
<td>February 24, 2011</td>
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<tr>
<td>Shiming Ma</td>
<td>Marketing and Technological Innovation</td>
<td>February 24, 2011</td>
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<tr>
<td>Richard Matthue MacKendrick</td>
<td>Mechanical Engineering</td>
<td>February 24, 2011</td>
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<td>Gopinath Madhavachari</td>
<td>Bioscience Administration</td>
<td>February 24, 2011</td>
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<td>Divya T. Mahajan</td>
<td>Information Technology</td>
<td>February 24, 2011</td>
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<td>Pranjal Keshav Mahajan</td>
<td>Information Technology</td>
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<td>Glenn Eugene Mahnken</td>
<td>Fire Protection Engineering</td>
<td>October 7, 2010</td>
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<td>Jennifer Lynn Makridakis</td>
<td>Biomedical Engineering</td>
<td>February 24, 2011</td>
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<td>Miguel Angel Malena</td>
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<td>Girish Suresh Mali</td>
<td>Operations Design and Leadership</td>
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<td>Lindsay S. W. Malloy</td>
<td>Materials Science and Engineering</td>
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<td>Paul Thomas Maloney</td>
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<td>Andrea T. Marinelli</td>
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<td>October 7, 2010</td>
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<td>Ryan M. Marques</td>
<td>Civil Engineering</td>
<td>February 24, 2011</td>
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<td>Julie Jeannine Marquis</td>
<td>Civil Engineering</td>
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<td>October 7, 2010</td>
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<td>Michael R. McAvoy</td>
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<td>Sean Steven McCormick</td>
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<td>Thomas James McDevitt</td>
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<td>Jeffrey Mark McDonald</td>
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<td>John P. McGinley</td>
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<td>Ryan Barry McGlone</td>
<td>Power Systems Management</td>
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<td>Sailoosha Meka</td>
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<td>Sebastian Brian Mendes</td>
<td>Civil Engineering</td>
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<td>Nicole Marie Mendillo</td>
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<td>Siddharth Sudhir Meshram</td>
<td>Materials Science and Engineering</td>
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<tr>
<td>Alan Alfred Mikolajczuk</td>
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<td>February 24, 2011</td>
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<td>Joseph Thomas Miller</td>
<td>Mechanical Engineering</td>
<td>February 24, 2011</td>
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<td>Peter Jesse Miller</td>
<td>Mechanical Engineering</td>
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<td>Hrishikesh Devram Mindhe</td>
<td>Information Technology</td>
<td>February 24, 2011</td>
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<tr>
<td>Marjorie Misasi</td>
<td>Systems Engineering</td>
<td>February 24, 2011</td>
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<td>Michael John Molignano</td>
<td>Computer Science</td>
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<td>Jonathan Eric Moore</td>
<td>Applied Mathematics</td>
<td>February 24, 2011</td>
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<td>Philip Kenneth Moran Jr.</td>
<td>Electrical and Computer Engineering</td>
<td>February 24, 2011</td>
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<td>Angele Lillian Morcos</td>
<td>Fire Protection Engineering</td>
<td>October 7, 2010</td>
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<tr>
<td>Briana Kay Morey</td>
<td>Electrical and Computer Engineering</td>
<td>October 7, 2010</td>
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<td>Adam John Moris</td>
<td>Environmental Engineering</td>
<td>October 7, 2010</td>
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<td>Rachel Irey Mosier</td>
<td>Power Systems Management</td>
<td>October 7, 2010</td>
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<tr>
<td>Daniel Van Zandt Moyer</td>
<td>Electrical and Computer Engineering</td>
<td>October 7, 2010</td>
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<tr>
<td>Mudasar Ali Muhammad</td>
<td>Electrical and Computer Engineering</td>
<td>October 7, 2010</td>
</tr>
</tbody>
</table>
Lindsay Elizabeth Mullins  
*Mechanical Engineering*

Joseph Richard Mundinger  
*Systems Engineering*

Matthew Brian Murdy  
*Electrical and Computer Engineering*

Eric Michael Murphy  
*Mechanical Engineering*

Nolan Scott Murphy  
*Manufacturing Engineering*

Stephen Maximilian Napolitano Jr.  
*Fire Protection Engineering*

Konstantin Naryshkin  
*Computer Science*  
Awarded February 24, 2011

Larry Gunnar Nelson Jr.  
*Power Systems Management*  
Awarded February 24, 2011

Eric Robert Nette  
*Fire Protection Engineering*  
Awarded October 7, 2010

Davis Nguyen  
*Mechanical Engineering*

Huong T. Nguyen  
*Environmental Engineering*

Tuong-Vi T. Nguyen  
*Biochemistry*

Meng-Yu Ni  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Min Ni  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Laura Niemczycki  
*Fire Protection Engineering*  
Awarded October 7, 2010

Laura Niemczycki  
*Manufacturing Engineering*  
Awarded October 7, 2010

Christopher Brian Noll  
*Systems Engineering*

Felix O. Nwaobasi Jr.  
*Computer Science*

Kevin James O’Brien  
*Computer Science*  
Awarded February 24, 2011

Fritz Gerval Octave  
*Electrical and Computer Engineering*

Patrick J. Odoy  
*Electrical and Computer Engineering*

William O’Hara  
*Electrical and Computer Engineering*

Steven James Olivieri  
*Electrical and Computer Engineering*

James Michael O’Malley  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Desmond Osamuyimen Omokaro  
*Electrical and Computer Engineering*

Mark O’Neil  
*Information Technology*  
Awarded October 7, 2010

Sanda O’Neil  
*Electrical and Computer Engineering*

Oswaldo F. Ortega  
*Electrical and Computer Engineering*

Karen Anne O’Sullivan  
*Civil Engineering*

Olusope Morenike Otuyelu  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Jeffrey Stephen Pacuska  
*Materials Systems Engineering*  
Awarded October 7, 2010

Budhinath Padhy  
*Applied Statistics*

Michal Ludwik Parzych  
*Mechanical Engineering*

Meghan Amalia Pasquali  
*Materials Science and Engineering*

Anthony Michael Pavick  
*Electrical and Computer Engineering*  
Awarded October 7, 2010

David Brian Peloquin  
*Electrical and Computer Engineering*

Konrad Robert Perry  
*Mechanical Engineering*

Travis Richard Perullo  
*Mechanical Engineering*

Ashley Paige McDonald Phillips  
*Manufacturing Engineering*  
Awarded October 7, 2010

Robert Joseph Piscatelli Jr.  
*Electrical and Computer Engineering*

Brett Edward Ponsler  
*Computer Science*

Michelle Yvonne Powers  
*Systems Engineering*

Jose Manuel Pozo Jr.  
*Bioscience Administration*  
Awarded February 24, 2011

Daniel Scott Precourt  
*Systems Engineering*

Michael Lee Putnam  
*Computer Science*  
Awarded February 24, 2011

Kyle Pydynkowski  
*Mechanical Engineering*

Dovan Rai  
*Computer Science*

Gowri Ramalingam  
*Computer Science*  
Awarded October 7, 2010

Kanwalpreet Reen  
*Systems Engineering*

Lynn Michelle Reni  
*Systems Engineering*
Timothy John Richardson  
*Power Systems Management*  
Awarded October 7, 2010

Ethan Frederick Robbins  
*Electrical and Computer Engineering*  
Awarded October 7, 2010

Nelmarie Rodriguez-Cardona  
*Manufacturing Engineering*  
Awarded October 7, 2010

Kevin Allyn Rogerson  
*Electrical and Computer Engineering*  
Erik Karl Ross  
*Mechanical Engineering*

Jean-Francois Roux  
*Chemical Engineering*

Benjamin Robert Roy  
*Robotics Engineering*

Pradnya Laxman Sabnis  
*Information Technology*

Daniel Robert Sacco  
*Robotics Engineering*

Michael Angelo Sacco  
*Mechanical Engineering*

Rohan Ajit Samant  
*Mechanical Engineering*  
Awarded October 7, 2010

Robert Samuel Sandler  
*Electrical and Computer Engineering*  
Matthew James Sandor  
*System Dynamics*  
Michael Anthony Sangillo Jr.  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Joseph F. Sarcia III  
*Electrical and Computer Engineering*  
Vasil Kolev Savov  
*Electrical and Computer Engineering*  
Awarded October 7, 2010

Eric M. Schulz  
*Materials Science and Engineering*

Nicole Ilene Schwimmer  
*Electrical and Computer Engineering*

Ryan Oscar Sebastian  
*Mechanical Engineering*

Matthew Charles Segal  
*Mechanical Engineering*  
Awarded February 24, 2011

Christopher Bryan Seith  
*Chemical Engineering*

Esha Mahesh Shah  
*Information Technology*

Avani Shastry  
*Computer Science*

Jiangyuan She  
*Information Technology*  
Awarded February 24, 2011

Pratik Nagesh Sheth  
*Systems Engineering*

Craig Edmund Shevlin  
*Systems Engineering*

Saurabh V. Shingote  
*Information Technology*

Edward Robert Shipper  
*Fire Protection Engineering*

Kai Si  
*Operations Design and Leadership*

David Lewis Simmons  
*Environmental Engineering*

Farah Simplice  
*Electrical and Computer Engineering*

Kile Logan Simpson  
*Mechanical Engineering*

Saharsh Prakash Singh  
*Systems Engineering*

Alihusain Yusuf Strohiwala  
*Electrical and Computer Engineering*

Bruce Kaylor Skarin  
*System Dynamics*  
Awarded February 24, 2011

Jason Ronald Small  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Derek Warren Snow  
*Fire Protection Engineering*

Christopher Paul Soderman  
*Electrical and Computer Engineering*

Soma Ghorai Soko  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Nathan R. Soule  
*Electrical and Computer Engineering*

Mark John Sousa  
*Electrical and Computer Engineering*  
Awarded October 7, 2010

Shweta Srivastava  
*Computer Science*

Kathryn Grace Strumolo  
*Fire Protection Engineering*

Ran Sun  
*Operations Design and Leadership*

Xihao Sun  
*Financial Mathematics*

Yuliang Sun  
*Marketing and Technological Innovation*

Erika Susanne Sutherland  
*Mechanical Engineering*

Michael Edmund Taglieri  
*Mechanical Engineering*  
Awarded February 24, 2011

Yuanyuan Tao  
*Chemical Engineering*  
Awarded February 24, 2011

Jon Daniel Tashman  
*Mechanical Engineering*
Christopher John Taylor  
*Fire Protection Engineering*  
Awarded February 24, 2011

Jan Christian Thomas  
*Fire Protection Engineering*

Tian Tian  
*Information Technology*

Cara Marie Ting  
*Biomedical Engineering*

Saurabh Deepak Tipnis  
*Information Technology*

Peter Laurence Tirinzoni  
*Electrical and Computer Engineering*

Matthew Ryan Tomasko  
*Mechanical Engineering*

Adam Richard Tracy  
*Fire Protection Engineering*  
Awarded October 7, 2010

Heather M. Trowbridge  
*Civil Engineering*

Rene M. Tuballa  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

David S. Vassallo  
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Shanthi Vasudevan  
*Biomedical Engineering*

Thangam Vedagiri Seenivasan  
*Computer Science*  
Awarded October 7, 2010

John Peter Ventura  
*Power Systems Management*

Arie J. Vilders  
*Mechanical Engineering*

Elizabeth Victoria Villani  
*Mechanical Engineering*

Han Wang  
*Computer Science*

Junxiong Wang  
*Financial Mathematics*

Kathleen Fan Wang  
*Chemical Engineering*  
Awarded February 24, 2011

Yao Wang  
*Fire Protection Engineering*

Yi Wang  
*Mechanical Engineering*  
Awarded February 24, 2011

Zhe Wang  
*Manufacturing Engineering*  
Awarded October 7, 2010

Nathan Michael Webb  
*Electrical and Computer Engineering*

Joanna L. Webber  
*Marketing and Technological Innovation*

Eric Bernard Weiland  
*Mechanical Engineering*

Sharon Suzette Welch Kessler  
*System Dynamics*  
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Christopher Roy Wells  
*Mechanical Engineering*  
Awarded February 24, 2011

Nicholas Andrew Wheeler  
*Mechanical Engineering*

Ryan Lee Whetstone  
*Mechanical Engineering*

Brendan Ryan White  
*Fire Protection Engineering*

Daniel William Neal White  
*Civil Engineering*

Sidath S. Wijesooriya  
*Materials Science and Engineering*

Shawn Richard Wilhelm  
*Mechanical Engineering*

David Williams  
*Electrical and Computer Engineering*

Derek Jeffrey Williams  
*Manufacturing Engineering*  
Awarded February 24, 2011

Joyce Ann Williamson  
*Bioscience Administration*

Timothy Paul Williamson  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Diana Holmes Wolf  
*Financial Mathematics*

Ning Wu  
*Marketing and Technological Innovation*

Sha Wu  
*Marketing and Technological Innovation*

Qin Xu  
*Materials Science and Engineering*

Yuan Xu  
*Materials Science and Engineering*

Hongwu Yang  
*Computer Science*  
Awarded February 24, 2011

Qi Yang  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Jun Yao  
*Marketing and Technological Innovation*

Shalin Ye  
*Mechanical Engineering*

Andrew Yee  
*Computer Science*

Daniel Yoo  
*Computer Science*  
Awarded February 24, 2011
Young-Geun You  
*Fire Protection Engineering*  
Awarded October 7, 2010

Wenqing Yu  
*Chemical Engineering*  
Awarded February 24, 2011

Meijiang Yun  
*Biology and Biotechnology*  
Awarded October 7, 2010

Tracy Dee Zalewski  
*Manufacturing Engineering*  
Awarded October 7, 2010

Jun Zhang  
*Financial Mathematics*  
Awarded February 24, 2011

Ning Zhang  
*Systems Engineering*  

Hanfei Zhao  
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Min Zhao  
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Dafu Zheng  
*Information Technology*  

Xiao Zhong  
*Financial Mathematics*  
Awarded October 7, 2010

Jianwei Zhou  
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Yujie Zong  
*Applied Statistics*
DEGREE OF
MASTER OF ENGINEERING

Meggan Rose Birmingham
*Biomedical Engineering*

Amanda Molly Feldman
*Biomedical Engineering*

William Alan Fluhr
*Civil Engineering*
Awarded October 7, 2010

Rebecca Rey Holmberg
*Biomedical Engineering*

Emily Priscilla Sangillo
*Biomedical Engineering*

Hannah Elizabeth Shapiro
*Biomedical Engineering*

Mohammed Salman Shazeeb
*Biomedical Engineering*
Awarded February 24, 2011

Jordan DeBenedictis Skelly
*Biomedical Engineering*

Laurie Anne Soderbom
*Biomedical Engineering*

Paul Francis Sullivan Jr.
*Biomedical Engineering*

DEGREE OF
MASTER OF MATHEMATICS FOR EDUCATORS

Donald Patrick Cameron

Kristofer David Carlson

April Rose Carter
Lesley Dalrymple Doll
Awarded February 24, 2011

Jennifer Ann Gamache

Solomon Nyame
Adelina Zaimi

DEGREE OF
MASTER OF BUSINESS ADMINISTRATION

Emmanuel Kwesi Akese
Sarah Anne Albrecht
Richard C. Baker
Kevin Hartley Beverage
Kicky Andrie Davetra
Awarded February 24, 2011
Erin Margaret Ellsworth
Gordon Scott Frost
Rohit Madhukar Gorhe

Olga Lorena Guizado Arosemena
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Thomas Joseph LaMarche
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Michael Antony Lihon
Rustam Maulana
Robert John McDermott

Kene E. Mgbojikwe
Christopher John Moeller
Varang Manoj Parikh
Marco Enrique Peschiera Jr.
Dimitris Saragas
Kurt Daniel Staven
Raj Vysetty
James Matthew Walter
DEGREE OF
BACHELOR OF ARTS

* Alexander Patch Nittel
  Liberal Arts and Engineering

* Jeffrey Russell Robinson
  Environmental Studies

* Kayla Janelle Schutte
  Environmental Studies

Quontay Renee Turner
Environmental Studies

DEGREE OF
BACHELOR OF SCIENCE

* Ramsey D. Abouzahra
  Electrical and Computer Engineering
  Minor in Computer Science

Kenneth William Adams
Biomedical Engineering

Valerie Lynn Adams
Civil Engineering

* Olufunmilayo Olatokunbo Adebayo
  Biomedical Engineering
  Professional Writing

Udit Adhikari
Electrical and Computer Engineering

* Mehmet Ali Akmanalp
  Computer Science

Meshal A. Alasfour
Mechanical Engineering
  with Thermal-Fluid Engineering

** Todd Edward Alexander
  Chemical Engineering
  Minor in Materials

** Benjamin Morgan Allen
  Biomedical Engineering

Kyle James Allen
Mechanical Engineering
  with Aeronautics

** Christopher Thomas Aloisio
  Robotics Engineering

Nicholas Alunni
Robotics Engineering
  Minor in Computer Science

* Migdoel Alvarado
  Computer Science

Joseph Amatucci
Biology
  Awarded October 7, 2010

** Chelsey Edith Anderson
  Chemical Engineering
  Minor in Materials

Lauren Ruth Anderson
Biomedical Engineering

** Neal David Anderson
  Mechanical Engineering
  with Mechanical Design

John F. Andrews
Interactive Media and
Game Development
  Minor in Writing and Rhetoric

Gregory Andujar
Mechanical Engineering
  with Mechanical Design

Marco V. Angulo Fernandez
Computer Science
  Awarded February 24, 2011

Salvador A. Antoniou
Electrical and Computer Engineering

** Karen Amanda Anundson
  Electrical and Computer Engineering

Sneha Arjun
Biology and Biotechnology
  Awarded February 24, 2011

David Lee Arnold III
Management Engineering
  with Biomedical Engineering
  Minor in International Studies

** Kevin John Arruda
  Aerospace Engineering

Gregory Peter Artim
Physics
* Russell Donald Austin  
Mechanical Engineering  
with Mechanical Design

Michael Ross Ayer  
Mechanical Engineering

* Gabriel J. Ayers  
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* * Samuel Ayisi  
Biology and Biotechnology  
Awarded February 24, 2011

Elyse Gloria Bailey  
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* * Lydia Peteva Bakalova  
Biomedical Engineering  
Mechanical Engineering  
with Biomechanical  
Awarded February 24, 2011

Jeffrey David Baker  
Mechanical Engineering

* Steven Charles Baldwin  
Mechanical Engineering  
with Mechanical Design

Robert Kyle Park Banahan  
Interactive Media and Game Development

Amanda V. Barnish  
Biochemistry

Rebecca Claire Baron  
Professional Writing

* * Nina Rose Bass  
Chemical Engineering  
Minors in International Studies  
Spanish

Lincoln John Bates  
Mechanical Engineering

Sean Patrick Beck  
Interactive Media and Game Development  
Minor in Computer Science

* * David Julian Burton Becroft  
Computer Science  
Interactive Media and Game Development

Danielle Kristen Beland  
Actuarial Mathematics  
Minors in International Studies  
Management

Jordan Richard Belliveau  
Biomedical Engineering  
Awarded February 24, 2011

William Andrew Benedict  
Mechanical Engineering

* Brian Matthew Berard  
Robotics Engineering  
Minor in Electrical and Computer Engineering

David Paul Bernstein  
Robotics Engineering

* * Trevor Barnes Bertin  
Civil Engineering

* * Sahil Bhagat  
Biomedical Engineering  
Biology and Biotechnology  
Minor in Computer Science

Manu Bhalla  
Electrical and Computer Engineering  
Minor in Computer Science

* * Andrew Timothy Bigelow  
Aerospace Engineering

Clinton M. Biltucci  
Civil Engineering

* Keith Mitchell Bishop  
Biomedical Engineering

* * Daniel James Bjorge  
Computer Science

* * Andrew Paul Black  
Chemical Engineering  
Minor in Chemistry

Michael John Blaess  
Mechanical Engineering

* Craig Allen Blanchette  
Computer Science  
Awarded October 7, 2010

Nicholas Wesley Bloksberg  
Environmental Engineering

* Amanda Lea Blom  
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Aaron Daniel Bober  
Chemical Engineering

* * Jeffrey Blake Bolkhovsky  
Biomedical Engineering  
Minor in Computer Science

Peter Gregory Borge  
Computer Science  
Interactive Media and Game Development

Kyle Boucher  
Mechanical Engineering

Nicholas Joseph Bova  
Biomedical Engineering

Victor Joseph Bovis  
Electrical and Computer Engineering

Elliot Scott Brodzki  
Interactive Media and Game Development  
Computer Science

* Chelsea Marie Brown  
Mechanical Engineering with Mechanical Design

Jake Lee Brown  
Chemical Engineering

Jared Thomas Brown  
Chemical Engineering

Lindsay Brown  
Actuarial Mathematics  
Minor in Management

* Riley Oliver Brown  
Professional Writing  
Interactive Media and Game Development

* * Samantha Lynn Brown  
Biomedical Engineering

* Alex Madigan Browning  
Mechanical Engineering
John Paul Brunelli  
Biomedical Engineering  

Jonathan Buckley  
Mechanical Engineering  

** Kara Buckley  
Mechanical Engineering  
Minor in Management  

Christopher James Burgess  
Computer Science  
Awarded October 7, 2010  

* Meaghan Elizabeth Busteed  
Mechanical Engineering with  
Biomechanical  

Christopher William Butcher  
Industrial Engineering  

Jason William Butler  
Civil Engineering  

Owen B. Butler  
Mechanical Engineering with  
Mechanical Design  
Minor in German  

Benjamin Cabrera  
Industrial Engineering  

** Ian Cameron Cahill  
Actuarial Mathematics  
Awarded February 24, 2011  

Charles Scott Caise  
Mechanical Engineering  

Toby Michael Callahan  
Mechanical Engineering  
Awarded February 24, 2011  

** Andrew Lawrence Camann  
Aerospace Engineering  

* Eric Michael Camiel  
Mechanical Engineering  

** Andrew Keith Capulli  
Biomedical Engineering  

* Abaigeal Chauncey Caras  
Biochemistry  

* Matthew W. Carey  
Robotics Engineering  
Electrical and Computer Engineering  

Brant Christian Carter  
Biology and Biotechnology  
Awarded October 7, 2010  

Adam Vincent Cartier  
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* Elizabeth Louise Casey  
Biomedical Engineering  

Benton Lawrence Cassie  
Civil Engineering  
Awarded February 24, 2011  

* Melissa Katherine Castle  
Chemistry with Medicinal Chemistry  

Nicholas Francis Catano  
Civil Engineering  

* Adrian Michael Catarius  
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Janese Marie Cerulli  
Biomedical Engineering  

** Aaron Paul Champagne  
Civil Engineering  

Steven Chen  
Electrical and Computer Engineering  
Minor in Computer Science  

* Weixin Chen  
Actuarial Mathematics  
Minors in Management  
Economics  

* Vadim Chernyak  
Mechanical Engineering with  
Mechanical Design  

** Lee Tang Chiang  
Mechanical Engineering with Robotics  
Minor in Electrical and Computer Engineering  

* Kimberly Marie Chinkidjakarn  
Electrical and Computer Engineering  

* Joseph Daly Chipman  
Interactive Media and Game Development  
Minor in Drama/Theatre  

YunSoo Choi  
Mechanical Engineering  

* Mario P. Christiner  
Electrical and Computer Engineering  
Awarded February 24, 2011  

* Christopher Richard Chung  
Interactive Media and Game Development  
Minor in Computer Science  

* Michael Anthony Ciampa  
Electrical and Computer Engineering  

Jacqueline Ciesynski  
Electrical and Computer Engineering  

** Amanda Blanche Clark  
Chemical Engineering  

** Lillian Marie Clark  
Environmental Engineering  
Minor in Music  

Ryan William Clinton  
Biology and Biotechnology  

* Patrick James Coffey  
Electrical and Computer Engineering  

Keith R. Coleman  
Civil Engineering  

* James Austin Collier  
Electrical and Computer Engineering  
Minors in Physics  
Music  

** Michael Saverio Collins  
Mechanical Engineering  

Patrick Bruce Collins  
Mechanical Engineering  

* Travis Fredrick Collins  
Electrical and Computer Engineering
Casey Bradley Comisky  
Electrical and Computer Engineering  
Robotics Engineering

* Nicole Kathryn Comosa  
Biochemistry

Karalee Fowler Conover  
Civil Engineering

Brandon Paul Cooney  
Management Engineering with  
Biomedical Engineering

* Anthony Marco Corbo  
Biomedical Engineering

** James Winthrop Corell  
Electrical and Computer Engineering

Daniel Philip Corfman  
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Development  
Awarded October 7, 2010

Samuel Jamieson Corner  
Aerospace Engineering

Evan Joseph Costa  
Biomedical Engineering

* Peter Calvin Costello  
Biomedical Engineering

Benjamin Daniel Cote  
Management Engineering  
with Operations Management  
Awarded October 7, 2010

Keith M. Cote  
Aerospace Engineering

Brannon Micheal Cote-Dumphy  
Actuarial Mathematics  
Minor in Management

Bryan Richard Crabtree  
Computer Science

** Anthony William Crasso  
Electrical and Computer Engineering

* Sean Crepeau  
Interactive Media and Game  
Development  
Minor in Computer Science

** Matthew Lewis Crocker  
Civil Engineering with  
Environmental

* Stefanie Cora Crovello  
Biology and Biotechnology

* Patrick Hoefner Crowe  
Mechanical Engineering  
Humanities and Arts  
with Drama/Theatre  
Awarded February 24, 2011

* Cassandra Lyssa Cruz  
Biology and Biotechnology

* Thomas Joseph Cucinotta  
Electrical and Computer Engineering  
Charles Cummings  
Mechanical Engineering

** Elizabeth Marie Dailey  
Actuarial Mathematics  
Minor in Management

** Robert John D’Angelo  
Electrical and Computer Engineering  
Minors in Computer Science  
Physics

** Catherine Elizabeth Danko  
Industrial Engineering  
Minor in Management

** Joshua Wayne Davidson  
Chemical Engineering  
Awarded February 24, 2011

** Daniel J. DeCiero  
Chemical Engineering

* Jenna Lyn DeFilippo  
Civil Engineering  
Minor in Spanish

** Jacob Christopher DeLew  
Management Engineering  
with Mechanical Engineering

Lauren Nicole D’Elia  
Biochemistry

Evan Demers-Peel  
Biomedical Engineering  
Awarded October 7, 2010

** James Hudson D’Entremont III  
Aerospace Engineering  
Minor in International Studies

Otilio Tavares DePina  
Management Engineering with  
Electrical and Computer Engineering  
Minor in Law and Technology

John Brennan Depot III  
Robotics Engineering

** Cailah Shealyn DeRoo  
Engineering Physics

** Patrick Joseph DeSantis  
Electrical and Computer Engineering  
Minors in Computer Science  
Music

* Aarik Devenger  
Mechanical Engineering

** Madison Dickson  
Computer Science  
Minor in ME Design and  
Simulation Graph

** Richard Colin DiCroce  
Computer Science

* Anthony Joseph DiGenio  
Mathematical Sciences  
Minors in Computer Science  
Economics

Patrick Joseph Dignan  
Computer Science  
Minor in Electrical and  
Computer Engineering

** Daniel Bruce Distler  
Mechanical Engineering

Wesley R. Dittrich  
Mechanical Engineering  
with Mechanical Design
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Actuarial Mathematics
Minor in Management
Awarded February 24, 2011

** Khoa Doba
Interactive Media and Game Development

Ryan Joseph Dobbins
Electrical and Computer Engineering

Ryan Marie Doherty
Robotics Engineering
Minor in Law and Technology

Drew Adam Domnarski
Mechanical Engineering

Carlos Andres Donado
Biomedical Engineering

* Eric Daniel Donahue
Mechanical Engineering
with Mechanical Design

** Melanie K. Donahue
Biology and Biotechnology
Minor in Mathematics

Sean Michael Donnelly
Civil Engineering

Matthew David Dooman
Mechanical Engineering
with Mechanical Design

Kirk Henry Dragsbaek
Mechanical Engineering

Jared Parks Drake
Mechanical Engineering

Charles Holland Dresser
Mechanical Engineering
Manufacturing Engineering
Minor in Entrepreneurship

Timothy Robert Driscoll
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Dax Linden Druminski
Mechanical Engineering

* Evan Thomas Duderewicz
Management Information Systems
Minor in Computer Science

* Ethan Dutton
Mechanical Engineering

** Daniel Wilson Earley
Robotics Engineering

William Edward Early
Interactive Media and Game Development
Minor in Management

* Amanda Leigh Eaton
Industrial Engineering

* Natalie Anne Eaton
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Computer Science

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International Studies

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Electrical and Computer Engineering
Awarded February 24, 2011

Jarrad Bryan Fallon
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Minor in Physics

* Steven Fanara
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Mechanical Engineering
with Mechanical Design
Minor in Drama/Theatre

* William Daniel Byron Fay
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Awarded October 7, 2010

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Mechanical Engineering

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Civil Engineering with Environmental

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Computer Science
Awarded February 24, 2011

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Mechanical Engineering
with Biomechanical

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Interactive Media and Game Development
Minor in Computer Science

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Robotics Engineering
Computer Science

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Civil Engineering

** Justin Edward Fraize  
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Awarded February 24, 2011

Kareem W. Francis  
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Mechanical Engineering  
Awarded February 24, 2011

** Michael W. Frewin  
Mechanical Engineering with Aeronautics

Laura Beth Friedman  
Mechanical Engineering with Mechanical Design

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Mechanical Engineering with Thermal-Fluid Engineering

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** Jing Fu  
Biochemistry  
Minors in Chemistry  
Biology  
Awarded February 24, 2011

Chuck Wah Fung  
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Jason Barbo Gabriel  
Aerospace Engineering  
Minor in Music

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Mechanical Engineering with Mechanical Design

Andreas Gartaganis  
Mechanical Engineering

** Kristen Marie Garza  
Management Information Systems  
Minors in International Studies  
Computer Science

** Lydia George  
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Minors in Music  
Materials

** Karl Emanuel Gibson  
Computer Science  
Interactive Media and Game Development

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Industrial Engineering

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Biochemistry

** Reinhold Gildemeister  
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Biochemistry

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Interactive Media and Game Development  
Awarded February 24, 2011

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Industrial Engineering  
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** Benjamin M. Goldberg  
Management Engineering  
with Civil Engineering  
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** Richard Alan Goloski Jr.  
Robotics Engineering  
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Computer Science

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Biology and Biotechnology  
Minor in German

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Mechanical Engineering  
Awarded October 7, 2010

Jeffrey Joseph Gorges  
Mechanical Engineering with Robotics

Brendan C. Gove  
Mechanical Engineering with Mechanical Design

Christopher Michael Gowell  
Mechanical Engineering

Brandon Joseph Grace  
Management Information Systems

Robert Brian Grady  
Biology and Biotechnology

Jonathan Graziosi  
Mechanical Engineering

** Kara Bernadette Greenfield  
Computer Science  
Mathematical Sciences  
Minor in Music

Jeffrey Edward Greenwood  
Mechanical Engineering  
Minor in Management

James Michael Grimard  
Chemical Engineering

William George Grudzinski Jr.  
Management Information Systems  
Minor in Computer Science

Christin Mary Grygorcewicz  
Civil Engineering

Jacob Joshua Grzyb  
Robotics Engineering

Justin John Guerra  
Civil Engineering with Environmental

Patrick-Joseph Fitzgerald Guill  
Robotics Engineering

Beatriz Marletty Gutierrez  
Biomedical Engineering
Andrew Mark Haggerty  
Robotics Engineering  

Amelia Gabrielle Halliday  
Mechanical Engineering  

Aaron Scott Hall-Stinson  
Mechanical Engineering  

Brittany Elizabeth Hanna  
Biomedical Engineering  
Minor in Materials  

Andrew Edward Harner  
Electrical and Computer Engineering  
Minor in Computer Science  

Brendan Chanler Harris  
Management Information Systems  
Minor in Computer Science  

Daniel Joseph Hartman  
Biology and Biotechnology  

Cyle Anthony Hawkins  
Aerospace Engineering  

Mark Tyler Hawthorne  
Robotics Engineering  
Computer Science  

Tyler Crawford Hay  
Aerospace Engineering  

Jared Phillip Hays  
Computer Science  
Interactive Media and Game Development  

Colleen Elizabeth Heath  
Civil Engineering with Environmental  

Rachel Katharine Heller  
Economic Science with Sustainable Economic Development System Dynamics  

Jaclyn Elizabeth Hepworth  
Biochemistry  
Minor in Biology  

Claudio Herreros  
Computer Science  

Emily Sarah Herries  
Industrial Engineering  
Minor in Computer Science  

Nicholas Leigh Hoar  
Physics  

Maximillian Hobson-Dupont  
Aerospace Engineering  
Awarded February 24, 2011  

James Paul Hopkins  
Physics  

Christopher James Horgan  
Physics  

Nathan Rosendo Horvath  
Aerospace Engineering  

William Tyler Howe  
Mechanical Engineering  

Zhao Huang  
Biology and Biotechnology  
Minor in Writing and Rhetoric  

Nicholas Hunnewell  
Mechanical Engineering  

Patrick Hunter  
Mechanical Engineering with Mechanical Design  

Dilbar Ibrasheva  
Biology and Biotechnology with Cell and Molecular Bio/Genetics  
Awarded February 24, 2011  

Veselin Doychinov Iliev  
Management Engineering  
Awarded October 7, 2010  

Ivana Indruh  
Mechanical Engineering  

Shanna Lynn Infantino  
Actuarial Mathematics  
Minor in Management  

Jared Neil Ingalls  
Computer Science  

Brandon Charles Ingram  
Mechanical Engineering  

Michael Patrick Isidoro  
Biology and Biotechnology with Cell and Molecular Bio/Genetics  
Awarded October 7, 2010  

Md Monirul Islam  
Electrical and Computer Engineering  

Hannah Marie Israel  
Biology and Biotechnology  
Minor in International Studies  

Nandakumar Radhakrishnan Iyer  
Mechanical Engineering  
Awarded October 7, 2010  

Thomas Lewis Izzo  
Electrical and Computer Engineering  

Sarah Jaffer  
Computer Science  
Minor in Music  

Hajar Jafferji  
Civil Engineering  

Dylan Russell James  
Computer Science  
Interactive Media and Game Development  

Thomas Edward Jenkins III  
Management Information Systems  

Emanuel Jimenez  
Mechanical Engineering with Aeronautics  

Benjamin Gervais Johnson  
Mechanical Engineering  

Sarah Johnson  
Actuarial Mathematics  

Daniel Tice Jones  
Electrical and Computer Engineering  
Minor in Robotics Engineering  

Eric Bernard Jones  
Robotics Engineering  
Minor in Computer Science
Shanice Kamille Jones
Biomedical Engineering

Craig Ogden Jordan
Interactive Media and Game Development
Minor in Computer Science

** Peter Scott Kalauskas
Robotics Engineering
Computer Science

Joseph Edward Kalbach Jr.
Mechanical Engineering with Mechanical Design
Awarded October 7, 2010

* Deepi Kalluri
Biomedical Engineering

Jinho Kang
Computer Science

* Zakkai Stanley Kauffman-Rogoff
Robotics Engineering
Minors in International Studies Computer Science

* Brittney Marie Kawa
Industrial Engineering

* Andrew James Kazanovicz
Biomedical Engineering

Amanda Jean Keller
Mechanical Engineering

* Philip Sebastian Kellermeier
Mechanical Engineering with Aeronautics

Jared Matthew Kellogg
Management Engineering with Operations Management

* Alexander Gerard Kelly
Society, Technology and Policy
Minors in Economics International Studies

Blake Andrew Kelly
Actuarial Mathematics
Minor in Management

** Krysta Theresa Keough
Biochemistry

Andrew David Keyser
Biochemistry

Arif M. Khandaker
Electrical and Computer Engineering

* Erik Ryan Khzouz
Mechanical Engineering with Materials Science and Engineering

Matthew Kielbasa
Mechanical Engineering

** Jotham Alexander Kildea
Computer Science
Minor in Management

JungMi Kim
Civil Engineering
Minor in Mathematics

* Alexander Lawrence Kindle
Robotics Engineering
Electrical and Computer Engineering

* James Leonard Kingsley
Physics

* Samantha Kingsley
Biology and Biotechnology

* Omar S. Kiyani
Electrical and Computer Engineering
Minor in Computer Science

Matthew Thomas Knapp
Computer Science

Obadiah B. Kopchak
Mechanical Engineering with Mechanical Design

* Carmel Kozlov
Electrical and Computer Engineering
Minor in Computer Science

* Katelyn Nicole Krajenka
Humanities and Arts with Music International Studies with Asian Studies

Adam Mathew Kreitman
Civil Engineering

Cody Francis Krumsieck
Biomedical Engineering

Paul Leszek Ksiazek
Computer Science

Mark Edward Kuhlwein
Biology and Biotechnology

** Melissa Pauline Kuhn
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* Eric Kurz
Robotics Engineering

Lindsey Catherine Kut
Chemistry

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Chemical Engineering

* Elizabeth Victoria Labelle
Computer Science Interactive Media and Game Development

Andrew Jordan Laflash
Chemical Engineering

* Sam H. LaFleche
Computer Science
Minor in Economics
Awarded February 24, 2011

* Huan Tu Lai
Computer Science

Richard Joseph La Mura Jr.
Aerospace Engineering Physics

Elizabeth Anne Lapinel
Management Engineering with Mechanical Engineering

* * Benjamin Michael LaVerriere
Computer Science
Minor in Drama/Theatre
James Alexander Lawrence
Computer Science

** Sarah Elizabeth Lax
Mechanical Engineering
with Mechanical Design

* Alan Lazaros
Electrical and Computer Engineering

* Minh Anh Le
Actuarial Mathematics
Minor in Computer Science

Ross F. LeBeau
Computer Science

Ivan Lebedev
Biomedical Engineering

Todd M. LeClerc
Mechanical Engineering
Awarded October 7, 2010

** Brianna Carmel Ledwith
Chemical Engineering

** Minkyu Lee
Mechanical Engineering
Robotics Engineering

* Ryan Kenneth LeFevre
Computer Science

Christopher James Lehrman
Mechanical Engineering

* Ho Fong Leung
Electrical and Computer Engineering

* Andrew Walker Lewis
Robotics Engineering

** Han Li
Computer Science
Minor in Mathematics

** Ningwei Li
Chemical Engineering
Awarded February 24, 2011

** Ruowang Li
Biology and Biotechnology
Minor in Computer Science

** Yizheng Liao
Electrical and Computer Engineering
Minor in Mathematics

Gerard Libby
Mechanical Engineering

Justin James Linnehan
Electrical and Computer Engineering
Awarded February 24, 2011

** Meghan Mary Linskey
Chemical Engineering
Minor in International Studies

* Thomas Kangchao Liu
Computer Science
Interactive Media and Game Development

* Yiwei Liu
Mathematical Sciences

* Gregory Marshall Lobdell
Biochemistry

James Thomas Loiselle
Mechanical Engineering with
Mechanical Design

Katarina Lynn Lopez
Chemistry

** Santiago Lora Botero
Industrial Engineering
Minor in Entrepreneurship

* Nicole Ann Lounsbury
Chemistry with Medicinal Chemistry
Minor in Biochemistry

Jonathan Kendall Low
Electrical and Computer Engineering
Awarded October 7, 2010

** Lan Luo
Chemistry

* Robert T. Luscinski
Mechanical Engineering
with Mechanical Design

* Hamresh D. Lutchmun
Mechanical Engineering
with Mechanical Design
Minor in Manufacturing Engineering

Michael Peter Lynch
Chemical Engineering

** Matthew Ross Lyon
Computer Science
Interactive Media and Game Development

Kelly MacNeill
Electrical and Computer Engineering
Minor in Computer Science

** Simeon Jonathan MacMillen
Management Engineering with
Electrical and Computer Engineering

Eric Carl Christopher Magnuson
Computer Science
Awarded February 24, 2011

* Dilasha Mahat
Biochemistry

* Mairaj Aftab Malik
Electrical and Computer Engineering
Minor in Computer Science

Daniel Richard Mallette
Mechanical Engineering
Minor in Materials
Awarded October 7, 2010

Guy D. Mann
Computer Science
Awarded February 24, 2011

* Stephanie Marie Manson
Industrial Engineering
Minor in Management Information Systems
** Mark George Marchand  
* Mechanical Engineering  
* with Biomechanical  
* Biomedical Engineering  
* Minor in Spanish

Brian Marino  
* Chemical Engineering  
* Minor in Materials

** Jeffrey Cyril Marrion  
* Biomedical Engineering

* Kimberly Martilla  
* Industrial Engineering  
* Minor in Organizational Leadership

John Raymond Martin  
* Biochemistry

Kent Tyler Marvin  
* Management Engineering

** Victoria Michelle Mason  
* Biology and Biotechnology  
* Professional Writing

* Joshua David Matte  
* Mechanical Engineering

Kelsey Lynn Mawhiney  
* Biomedical Engineering  
* Awarded October 7, 2010

Alexander R. Maynard  
* Mechanical Engineering  
* Awarded October 7, 2010

Anna Maziarz  
* Chemical Engineering

Taylor John Mazzali  
* Chemical Engineering

John Paul McCann  
* Mechanical Engineering  
* with Mechanical Design

* Sean Matthew McCauley  
* Chemistry  
* Biochemistry

* Katherine Margaret McCormack  
* Management

* Charlotte McDonnell  
* Actuarial Mathematics  
* Minor in Management

Ashley Lauren McGuane  
* Interactive Media and  
* Game Development

* Casey Ann McKenna  
* Biology and Biotechnology  
* Psychological Science

Brendan Thomas McLoughlin  
* Computer Science

** Kevin Michael McManus  
* Interactive Media and  
* Game Development  
* Minor in Computer Science

Rachel McManus  
* Humanities and Arts  
* with Hispanic Studies  
* Awarded October 7, 2010

** Kelsey Rae McMenamy  
* Civil Engineering

** Adrian Mejia  
* Computer Science  
* Interactive Media and  
* Game Development

Dane Michael Mellon  
* Biology and Biotechnology

* Tianna Elizabeth Melling  
* Biochemistry

Kealeboga Merafhe  
* Chemical Engineering

* Brian Cameron Mercer  
* Chemical Engineering

Ethan Amaro Messier  
* Electrical and Computer Engineering

** Alexander L. Meyer-Lorentson  
* Aerospace Engineering  
* Minor in Law and Technology

Remy George Michaud  
* Electrical and Computer Engineering

Laura Marisa Miggins  
* Biology and Biotechnology

Chance Voorhees Miller  
* Computer Science

* Lyle Judson Miller  
* Mechanical Engineering  
* Awarded October 7, 2010

Ryan Francis Miller  
* Management Engineering  
* with Civil Engineering

* Benjamin G. Mininberg  
* Biology and Biotechnology  
* Minor in History

Daniel Francis Mitchell  
* Computer Science

Shuchi Smita Mitra  
* Mathematical Sciences  
* International Studies

* John Thomas Moakley Jr.  
* Mechanical Engineering  
* with Mechanical Design

** Paul James Moan  
* Civil Engineering

* Niyanta Mogre  
* Electrical and Computer Engineering

Kemal F. Moise  
* Mechanical Engineering  
* Awarded October 7, 2010

José G. Molina  
* Mechanical Engineering  
* with Aerospace

** Samuel Leonard Moniz  
* Computer Science  
* Minor in Drama/Theatre

Victor Montero  
* Mechanical Engineering  
* with Mechanical Design

* James B. Montgomery  
* Electrical and Computer Engineering
<table>
<thead>
<tr>
<th>Name</th>
<th>Major(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henry Oliver Moore</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Mark Christopher Mordarshi Jr.</td>
<td>Robotics Engineering</td>
</tr>
<tr>
<td>Amanda Rose Moreno</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>Amanda Rose Moreno</td>
<td>Minor in Management</td>
</tr>
<tr>
<td>Amanda Rose Moreno</td>
<td>Awarded February 24, 2011</td>
</tr>
<tr>
<td>Jonathan Morgan</td>
<td>Mechanical Engineering with Mechanical Design</td>
</tr>
<tr>
<td>Jonathan Morgan</td>
<td>Robotics Engineering</td>
</tr>
<tr>
<td>Melissa Marie Morianos</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Amy Elizabeth Morin</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Liam MacQuarrie Morley</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Liam MacQuarrie Morley</td>
<td>Awarded October 7, 2010</td>
</tr>
<tr>
<td>Eric James Morse</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Eric James Morse</td>
<td>Awarded October 7, 2010</td>
</tr>
<tr>
<td>Raha Moussavi-Aghdam</td>
<td>Chemistry Professional Writing</td>
</tr>
<tr>
<td>Daniel Van Zandt Moyer</td>
<td>Electrical and Computer Engineering</td>
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<tr>
<td>Patrick Fitzgerald Moynihan</td>
<td>Civil Engineering</td>
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<tr>
<td>Stefan Srdjan Mrkic</td>
<td>Electrical and Computer Engineering</td>
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<tr>
<td>Stephanie Lee Munion</td>
<td>Civil Engineering</td>
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<tr>
<td>Evald Muraj</td>
<td>Biology and Biotechnology</td>
</tr>
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<td></td>
<td>Humanities and Arts with Literature</td>
</tr>
<tr>
<td>Charles Benjamin Murphy</td>
<td>Interactive Media and Game Development</td>
</tr>
<tr>
<td>Charles Benjamin Murphy</td>
<td>Minor in Music</td>
</tr>
<tr>
<td>Eric Michael Nadeau</td>
<td>Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Eric Michael Nadeau</td>
<td>Awarded February 24, 2011</td>
</tr>
<tr>
<td>Kyle Gerard Nadeau</td>
<td>Management Engineering with Operations Management</td>
</tr>
<tr>
<td>Michael Benjamin Nagle</td>
<td>Biology and Biotechnology</td>
</tr>
<tr>
<td>Kshitij Nagpal</td>
<td>Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Patrick Napier</td>
<td>Mechanical Engineering with Mechanical Design</td>
</tr>
<tr>
<td>Patrick Napier</td>
<td>Awarded February 24, 2011</td>
</tr>
<tr>
<td>Arnold Michael Ndegwa</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>Andrew Ivan Nehring</td>
<td>Robotics Engineering</td>
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<tr>
<td>Andrew Ivan Nehring</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Andrew Ivan Nehring</td>
<td>Awarded February 24, 2011</td>
</tr>
<tr>
<td>Andrew Francis Nemeth</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Nathan Taylor Nesbitt</td>
<td>Physics</td>
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<tr>
<td>Nathan Taylor Nesbitt</td>
<td>Minors in Mathematics</td>
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<td>Irina Nesterenko</td>
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<tr>
<td>Irina Nesterenko</td>
<td>Minor in Biochemistry</td>
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<tr>
<td>Matthew Allenson Netsch</td>
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<tr>
<td>Matthew Allenson Netsch</td>
<td>Electrical and Computer Engineering</td>
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<tr>
<td>William Henri Neve IV</td>
<td>Chemistry</td>
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<td>Kristin H. Newell</td>
<td>Biology and Biotechnology</td>
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<tr>
<td>Michael Ng</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>Michael Ng</td>
<td>Minor in Computer Science</td>
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<tr>
<td>David Do Nguyen</td>
<td>Mechanical Engineering</td>
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<tr>
<td>David Do Nguyen</td>
<td>Minor in Computer Science</td>
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<tr>
<td>Hang M. Nguyen</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Hang M. Nguyen</td>
<td>Minor in Mathematics</td>
</tr>
<tr>
<td>Amanda Lee Nichols</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Amanda Lee Nichols</td>
<td>with Astronautics</td>
</tr>
<tr>
<td>Amanda Lee Nichols</td>
<td>Minor in International Studies</td>
</tr>
<tr>
<td>Patrick Wallace Nietupski</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Patrick Wallace Nietupski</td>
<td>Awarded October 7, 2010</td>
</tr>
<tr>
<td>Christopher William Noble</td>
<td>Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Christopher William Noble</td>
<td>Minor in Management</td>
</tr>
<tr>
<td>Christopher Lopez Nolan</td>
<td>Electrical and Computer Engineering</td>
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<tr>
<td>Taylor Alden North</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Daniel Thomas Nuzzo-Mueller</td>
<td>Physics</td>
</tr>
<tr>
<td>Daniel Thomas Nuzzo-Mueller</td>
<td>Minor in Computer Science</td>
</tr>
<tr>
<td>Sean Patrick O’Donnell</td>
<td>Biology and Biotechnology</td>
</tr>
<tr>
<td>Sean Patrick O’Donnell</td>
<td>Minor in Chemistry</td>
</tr>
<tr>
<td>Andrew Alexander Oliva</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>Andrew Alexander Oliva</td>
<td>Minor in Physics</td>
</tr>
<tr>
<td>Trevor Michael Olsen</td>
<td>Biomedical Engineering</td>
</tr>
</tbody>
</table>
Edward Paul Orsi  
Interactive Media and Game Development

Kushal Rinesh Palkhiwala  
Biomedical Engineering  
Minor in Management

Linnea May Palmer Paton  
Civil Engineering  
Environmental Policy and Development

Alison Genevieve Paquette  
Biochemistry  
Chemistry

Buddhi Paranamana  
Mechanical Engineering with Robotics

Brandon M. Pare  
Mechanical Engineering with Mechanical Design

Thomas Andrew Parenteau  
Civil Engineering  
Minor in History  
Awarded October 7, 2010

Meaghan Hughes Paris  
Biochemistry

Jayyoung Park  
Biology and Biotechnology

Benjamin Edward Parkhurst  
Biomedical Engineering  
Awarded February 24, 2011

Kathryn Elisabeth Partridge  
Biomedical Engineering

Adam Roy Pastorello  
Interactive Media and Game Development

Brijen Patel  
Aerospace Engineering

Khushbu Patel  
Industrial Engineering

Juan C. Payan  
Physics

Graham Kenneth Pentheny  
Computer Science  
Interactive Media and Game Development  
Awarded February 24, 2011

Douglas Dale Perkins  
Mechanical Engineering with Mechanical Design

Timothy Daniel Perrault  
Robotics Engineering

Joshua Perry  
Aerospace Engineering  
Awarded February 24, 2011

Dana Alexandra Peterson  
Biology and Biotechnology

Ellen Elizabeth Peterson  
Robotics Engineering  
Minor in Electrical and Computer Engineering

Christopher James Pettrie  
Computer Science  
Robotics Engineering  
Minor in Electrical and Computer Engineering  
Awarded February 24, 2011

Benjamin Erik Petrin  
Computer Science  
Awarded February 24, 2011

Barton C. Phinney  
Mechanical Engineering  
Minor in Management

Richard Francis Pianka Jr.  
Computer Science  
Interactive Media and Game Development

Andrew Picard  
Aerospace Engineering

Randy Adam Pierce  
Biology and Biotechnology  
Awarded February 24, 2011

Rudy Ellyn Pinkham  
Civil Engineering  
Awarded February 24, 2011

Piotr Piskorski  
Management Engineering with Operations Management  
Awarded February 24, 2011

Michael Louis Plati  
Mechanical Engineering  
Awarded February 24, 2011

Trevor Royce Podber  
Management  
Minor in Computer Science  
Awarded February 24, 2011

Felipe Polido  
Robotics Engineering  
Electrical and Computer Engineering

Justin Lee Pombrio  
Computer Science  
Mathematical Sciences

Kevin Joseph Potter Jr.  
Chemical Engineering

William Andrew Powers  
Mechanical Engineering with Mechanical Design

Daniel Michael Praetorius  
Mechanical Engineering with Mechanical Design  
Robotics Engineering

Lisa Marie Pugsley  
Physics

Karissa Leanne Puliafico  
Robotics Engineering

Alexander Quinn  
Mechanical Engineering with Mechanical Design  
Minor in Manufacturing Engineering

Karina Raczka  
Civil Engineering  
Minor in International Studies
Aneliya Zdravkova Rankova  
*Biology and Biotechnology*

Jessica Lynn Rastad  
*Biology and Biotechnology  
Minor in Chemistry*

Stacey Leigh Rauen  
*Biomedical Engineering  
Mechanical Engineering*

Harold Fredrick Reader III  
*Civil Engineering*

Joel B. Reed  
*Actuarial Mathematics*

James Harold Reese  
*Biology and Biotechnology*

James Curtis Rehberger  
*Electrical and Computer Engineering*

David Alan Reid  
*Biomedical Engineering*

Seanna Marie Reilly  
*Biology and Biotechnology*

Kathryn Anne Remillard  
*Management Engineering  
Minors in Mathematics  
International Studies*

Joseph Nathaniel Rennert  
*Biomedical Engineering*

Dallas J. Rensel  
*Chemical Engineering  
Minors in Chemistry  
Materials  
Mechanical Engineering*

Matthew Burton Rhodes  
*Mechanical Engineering*

James Christopher Ricci  
*Civil Engineering*

Bradley Thomas Richards  
*Aerospace Engineering  
Awarded October 7, 2010*

Gregory John Richmond  
*Biology and Biotechnology*

Nicholas Paul Ridley  
*Aerospace Engineering  
Humanities and Arts with Philosophy*

Michael John Riggieri  
*Mathematical Sciences*

Danica Danielle Ereso Rili  
*Biology and Biotechnology*

Amanda Angela Rinaldi  
*Mechanical Engineering  
Minor in Mechanical Design  
Minor in Digital Art*

Daniel G. Ritchie  
*Biology and Biotechnology  
Minor in German*

Kelly Elizabeth Roberge  
*Mechanical Engineering  
with Biomechanical*

Heidi Passe Robertson  
*Biomedical Engineering  
Minor in Electrical and Computer Engineering*

Brian Wilbur Robie  
*Mechanical Engineering  
Awarded October 7, 2010*

Colin Francis Roddy  
*Mechanical Engineering  
with Mechanical Design*

Byron Esteban Rodriguez  
*Industrial Engineering  
Minor in Entrepreneurship*

Samuel Hartwell Rogers  
*Interactive Media and Game Development*

Melissa Jean Roma  
*Chemical Engineering*

Katherine M. Rondina  
*Psychological Science  
Humanities and Arts with Literature  
Awarded October 7, 2010*

Eric Delaney Rosendahl  
*Mechanical Engineering  
with Aeronautics*

Lisa Marissa Rossi  
*Psychological Science  
Humanities and Arts with Music*

Michael Alan Roth  
*Mechanical Engineering  
with Aeronautics*

Matthew Adrien Rotier  
*Mechanical Engineering  
Minor in Electrical and Computer Engineering*

Jonathan Douglas Rowell  
*Management Engineering  
with Operations Management*

Mason Joichi Ruffing  
*Mechanical Engineering*

Matthew Robert Rumore  
*Physics  
Minors in Music  
Mathematics  
Awarded February 24, 2011*

Matthew K. Runkle  
*Computer Science  
Minor in Electrical and Computer Engineering*

Lauren Grace Russell  
*Industrial Engineering*

Maureen Elizabeth Ryder  
*Biochemistry  
Awarded October 7, 2010*

Erik D. Ryll  
*Electrical and Computer Engineering  
Awarded October 7, 2010*

Michael G. Sack  
*Mechanical Engineering  
with Astronautics*

Anil Saddat  
*Chemical Engineering*

Baltasar Sanchez Espinosa de los Monteros  
*Humanities and Arts with Music  
Awarded October 7, 2010*
John-Andrew Sandbrook  
*Computer Science*

John Nelson Sandgren  
*Mechanical Engineering*

Shubhneet Kaur Sandhu  
*Chemical Engineering*  
Awarded October 7, 2010

Dwight Santimore  
*Electrical and Computer Engineering*  
Awarded February 24, 2011

Amanda Rose Sargent  
*Chemistry*  
*Biochemistry*

Kyle Andrew Sarnik  
*Interactive Media and Game Development*  
*Minor in Computer Science*

Daniel John Savastano II  
*Mechanical Engineering*

David van Dam Saxner  
*Chemical Engineering*

Ashley Kendra Saylor  
*Aerospace Engineering*

Michael F. Scaduto  
*Civil Engineering*  
Awarded October 7, 2010

**Gregory Paul Schaalman**  
*Aerospace Engineering*  
*Minor in Physics*

Peter Michael Schembri Jr.  
*Civil Engineering*

Joseph Schlesinger  
*Electrical and Computer Engineering*

Alexander Foster Scott  
*Robotics Engineering*

**Lucas Scotta**  
*Computer Science*

Andrew Ian George Sealey  
*Mechanical Engineering*  
*Minor in Manufacturing Engineering*

Sean Sears  
*Management Information Systems*

William David Seibold  
*Chemical Engineering*

Benjamin Joseph Seicol  
*Biochemistry*  
*Minor in Chemistry*  
Awarded February 24, 2011

Christopher Serafin  
*Biomedical Engineering*

**Colbert L. Sesanker**  
*Mathematical Sciences*

Caitlyn Elizabeth Shaddock  
*Physics*

**Bhavika Bharat Shah**  
*Biomedical Engineering*  
*Minor in Management*

**Brian Shaw**  
*Electrical and Computer Engineering*  
*Minor in Computer Science*

Chelsea Catherine Sheehan  
*Biology and Biotechnology*

Michael Sherrerd  
*Mechanical Engineering*

**Yuan Shi**  
*Electrical and Computer Engineering*

Yoshitaka C. Shiotzu  
*Chemical Engineering*

Tesiia T. Shizume  
*Management*

Shaaz Hijaz Shuttari  
*Biomedical Engineering*

Emily Marie Silva  
*Biology and Biotechnology*

Isaac Neuton Silva  
*Mechanical Engineering*

Andrew Edward Silvia  
*Aerospace Engineering*

Brian Keith Silvia  
*Robotics Engineering*

James E. Silvia  
*Electrical and Computer Engineering*  
*Minor in Management*

Joseph Robert Sima  
*Mechanical Engineering*

**Ravi Singh**  
*Computer Science*

**Matthew Stephen Sirocki**  
*Electrical and Computer Engineering*  
*Minor in Computer Science*

**John Joseph Sivak**  
*Robotics Engineering*  
*Minor in Computer Science*

**Bhalayogasthini Sivayoganathan**  
*Mechanical Engineering*

Damian P. Skwierczynski  
*Actuarial Mathematics*  
*Minor in Management*

Andrew Evans Smith  
*Electrical and Computer Engineering*  
*Minor in Computer Science*  
Awarded October 7, 2010

**Nicholas Alan Smith**  
*Robotics Engineering*  
*Minor in Electrical and Computer Engineering*  
*Computer Science*

**David Song**  
*Biomedical Engineering*

Matthew James Sonntag  
*Biomedical Engineering*
* Jason John Sorrentino  
Biomedical Engineering

* Kayla Ashley Sousa  
Management Engineering with  
Biomedical Engineering

** Steven James Southard  
Mechanical Engineering
Awarded February 24, 2011

Lindsay Kay Spencer  
Actuarial Mathematics

** Jennifer Rachel Spinney  
Computer Science

* Daniel Lawrence Spitz  
Computer Science

* Joseph William Spokis Jr.  
Civil Engineering

** Tristan David Spoor  
Physics
Mathematical Sciences  
Minor in Drama/Theatre

** Arvind Srinivasan  
Mechanical Engineering  
with Mechanical Design  
Minor in Manufacturing Engineering

Simone Loretta Staley  
Aerospace Engineering

Benjamin Eli Staver  
System Dynamics  
Awarded October 7, 2010

Joel Stella  
Civil Engineering

Alexander Jonathan Sterling  
Biology and Biotechnology

* Jack Philip Sternal  
Biology and Biotechnology

* Bridget Lucy Stevens  
Aerospace Engineering  
Minor in Management

Ryan Patrick Stock  
Management Engineering  
with Civil Engineering

* Justin Alan Stocker  
Electrical and Computer Engineering

** Nicholas Paul Stone  
Biochemistry

* Allyson Michelle Stoye  
Chemical Engineering

* Felipe Duarte Strefling  
Biology and Biotechnology  
with Cell and Molecular Bio/Genetics
Awarded February 24, 2011

Brandon Ross Stuczko  
Mechanical Engineering

Dennis Gregory Sullivan  
Mechanical Engineering

** Joel David Sutherland  
Robotics Engineering  
Humanities and Arts with  
Drama/Theatre

Lauren Elizabeth Swalec  
Chemical Engineering

** Keeon B. Tabrizi  
Biomedical Engineering

Zachary Ryan Taillefer  
Aerospace Engineering

Andrea Rose Tarbet  
Biology and Biotechnology

** Terry Angelo Tata  
Computer Science

Umunt Tekin  
Aerospace Engineering  
Awarded February 24, 2011

** Nathan Tetreault  
Mechanical Engineering  
with Mechanical Design

Stephen Michael Tetreault  
Aerospace Engineering

Devin R. Thayer  
Mechanical Engineering  
Awarded October 7, 2010

* K Zin The  
Electrical and Computer Engineering

* Kelsey Thomas  
Biochemistry and Biotechnology

** Lane Mikal Thornton  
Aerospace Engineering  
Minor in Spanish

Michael Tidd  
Computer Science

Adam Stratton Tragellis  
Mathematical Sciences

** Giao Tran  
Chemical Engineering  
Minor in Chemistry

* Benjamin A. Travis  
Mechanical Engineering  
Minor in Physics

Andrew David Tremblay  
Computer Science  
Interactive Media and  
Game Development

Ty N. Tremblay  
Robotics Engineering

** Stephen Douglas Tressel  
Mechanical Engineering  
with Materials Science and Engineering  
Awarded February 24, 2011

** Everett Raymond Tripp IV  
Mechanical Engineering  
Minor in Manufacturing Engineering

Rebecca Ann Trojanowski  
Chemical Engineering
Gregory Joseph Trumbull  
Biomedical Engineering

** Ethan Thai Truong  
Computer Science  
Awarded February 24, 2011

** Megan Tsai  
Computer Science

* Nicholas Tsitsilanos  
Biochemistry

* Douglas Paul Turcotte  
Interactive Media and Game Development

Quontay Renee Turner  
Civil Engineering

Victoria Cirila Valencia  
Mechanical Engineering  
Minor in Drama/Theatre

* Joseph Aidan McDermott Vanni  
Civil Engineering

* Megan Leigh Van Welie  
Electrical and Computer Engineering  
Minor in Computer Science

** Alejandra Vargas Prada  
Chemical Engineering

Marina Varlamova  
Chemical Engineering  
Minor in Materials

Ryan Thomas Vautrin  
Chemical Engineering

David Joseph Vecchiarelli  
Electrical and Computer Engineering

Silvia Ines Velasquez Casado  
Industrial Engineering

* Rashmi Venkatesh  
Biochemistry  
Minor in Chemistry

* Steven Richard Vessella  
Biology and Biotechnology with Ecology and Environmental Biology  
Humanities and Arts with Drama/Theatre  
Awarded February 24, 2011

Andrew Reed Vickery Jr.  
Mechanical Engineering with Materials Science and Engineering

** John William Vilk  
Computer Science  
Minor in Mathematics

Thomas Villani Jr.  
Chemistry with Medicinal Chemistry  
Awarded October 7, 2010

Jonathan A. Vo  
Electrical and Computer Engineering

** Sahag Voskian  
Chemical Engineering with Materials Chemistry  
Minor in Music

* Michael Julian Votruba  
Civil Engineering with Environmental

* Nicholas Vranos  
Electrical and Computer Engineering

Tuan Q. Vu  
Electrical and Computer Engineering

Rachel C. Wallace  
Management Engineering with Operations Management  
Minor in German

** Christian Philip Waller  
Chemical Engineering

Gregory Frederick Walls  
Chemical Engineering

* Boya Wang  
Mathematical Sciences  
Computer Science  
Awarded February 24, 2011

* Yao Wang  
Civil Engineering

Devon Allen Ward  
Civil Engineering

Allyson Louise Warren  
Biology and Biotechnology

Bryan Arthur Watkins  
Civil Engineering with Environmental

Kevin E. Waugh  
Civil Engineering with Environmental  
Awarded October 7, 2010

** Ryan James Weaver  
Mechanical Engineering with Mechanical Design  
Awarded February 24, 2011

Michael Robin Weinstein  
Aerospace Engineering

Matthew James Weisman  
Civil Engineering

* Marc Franklin Weller  
Chemical Engineering  
Minor in International Studies

** Christopher C. Wellington  
Mechanical Engineering with Mechanical Design

* Samantha Lillian Wentzell  
Chemical Engineering

Krista Westermayer  
Biology and Biotechnology

* Skylar Barrett Whorton  
Computer Science

* Christopher Michael Williams  
Interactive Media and Game Development  
Minor in Computer Science

** Ian Michael Williams  
Computer Science  
Interactive Media and Game Development

Cody Miles Wojcik  
Mechanical Engineering with Mechanical Design  
Awarded October 7, 2010

Maciej Wojcik  
Mechanical Engineering with Mechanical Design
* Alexander M. Wong
  Chemical Engineering
  * Minor in Chemistry

Walter Gordon Woodington
Civil Engineering

** Scott Robert Woodnorth
Mechanical Engineering
  with Mechanical Design

Joseph Richard Worthen
Mechanical Engineering
  with Biomechanical

John F. Wyatt Jr.
Management Information Systems

Matthew Paul Wzorek
Civil Engineering

* Becky Yang
  Mechanical Engineering
  with Mechanical Design

Ross Vahan Yaylaian
Chemical Engineering

Timothy J. Yee
System Dynamics
  Awarded October 7, 2010

Craig Peterson Young
Chemistry

Mustapha Fadi Zailah
Biomedical Engineering

** Matija Zelic
Biochemistry

** Abdelbassat Mohamed Zerguine
Biomedical Engineering

* Xinyi Zhang
Actuarial Mathematics
  Awarded February 24, 2011

Jeremy Zorrilla De Los Santos
Electrical and Computer Engineering
RESERVE OFFICER TRAINING CORPS

These members of the Class of 2011 received their commissions as part of this morning’s Commencement exercises

UNITED STATES ARMY
Commissioned Second Lieutenants:

Michael Nagle
Ryan Miller

UNITED STATES AIR FORCE
Commissioned Second Lieutenants:

Michael Blaess
Aarik Devenger
Jason Gabriel
Brijen Patel
Nicholas Ridley

UNITED STATES NAVY
Commissioned Ensigns:

Patrick Collins
Charles Cummings
Cyle Hawkins
Ashley Saylor

UNITED STATES MARINE CORPS
Commissioned Ensigns:

Michael Collins
Tyler Hay
ACADEMIC HONORS AND AWARDS
— Class of 2011 —

SALISBURY PRIZE
Karen Anundson, Electrical and Computer Engineering
Dan Bjorge, Computer Science
Andrew Black, Chemical Engineering
Elliot Borenstein, Interactive Media and Game Development and Computer Science
Andrew Capulli, Biomedical Engineering
Aaron Champagne, Civil Engineering
Elizabeth Dailey, Actuarial Mathematics
Melanie Donahue, Biology and Biotechnology
Courtney Gilbert, Biochemistry
Mark Hawthorne, Robotics Engineering and Computer Science
Sarah Lax, Mechanical Engineering
Jeffrey Marrion, Biomedical Engineering
Paul Moan, Civil Engineering
Nathan Nesbitt, Physics
Gregory Schaalman, Aerospace Engineering
John Vilk, Computer Science

This award is made to the most meritorious seniors at the university. It was established by Stephen Salisbury II, a WPI founder and the first president of the Board of Trustees.

TWO TOWERS PRIZE
Olufunmilayo Olatokunbo Adebayo, Biomedical Engineering and Professional Writing (AWARDED 2010)

In keeping with the original purposes of the founders of WPI, the Two Towers Prize is awarded to students who, through general academic competence, campus leadership, regular course work, and special work in research and projects, best exemplify a combined proficiency in the theoretical and practical union that is at the heart of the WPI educational tradition. This prize was established by Mildred M. Tymeson Petrie, author of TWO TOWERS, WPI’s centennial history, published in 1965.

SIGMA XI GRADUATE RESEARCH AWARD
Brendan Chenelle, MS candidate: “Friction Stir Welding in Wrought and Cast Aluminum Alloys: Microstructure, Residual Stress, Fatigue Crack Growth Mechanisms, and Novel Applications”
Advisor: Diana Lados

This award, established in 1983, is presented for outstanding research by students at the master’s and doctoral levels and is sponsored jointly by the Society of the Sigma Xi and the Committee on Graduate Studies and Research.

SIGMA XI UNDERGRADUATE RESEARCH AWARD
Advisor: L. R. Ram-Mohan

This award, established in 2004, is presented for outstanding research by students at the undergraduate level and is sponsored by the Society of the Sigma Xi.

MARIETTA E. ANDERSON AWARD
Danielle Antonellis
Linnea Palmer Paton (AWARDED 2010)

Established by Arvid E. Anderson ‘20 in memory of his wife, this award is presented to outstanding freshman, sophomore, or junior women students who not only have a superior academic record, but have been work-study students, volunteers for college-sponsored activities, and participants in recognized extracurricular activities.

BONNIE-BLANCHE SCHOONOVER AWARD
Olufunmilayo Olatokunbo Adebayo (AWARDED 2010)
Sarah Albrecht (AWARDED 2010)

This award, honoring WPI’s former librarian, is provided by funds from an anonymous donor. Based on academic excellence, contributions to the WPI community, and professional goals, the award is given in tribute to junior women students preparing for a career in engineering or science, who have played a significant role at WPI.

ELLEN KNOTT AWARD
Samantha Brown (AWARDED 2009)
Jing Fu (AWARDED 2009)
Linnea Palmer Paton (AWARDED 2009)

This award, honoring a longtime secretary in the Mechanical Engineering Department, is provided by funds from an anonymous donor. Based on academic excellence, contributions to the WPI community, and professional goals, the award is given in tribute to sophomore women students preparing for careers in engineering or science, and who have played a significant role at WPI.

GERTRUDE R. RUGG AWARD
Sarah Lax (AWARDED 2008)
Linnea Palmer Paton (AWARDED 2008)
Jennifer Spinney (AWARDED 2008)

This award, honoring WPI’s late registrar, is provided by funds from an anonymous donor. Based on academic excellence, contributions to the WPI community, and professional goals, the award is given in tribute to first year women students preparing for a career in engineering or science who have played a significant role at WPI.

Awards were presented in 2011, unless otherwise noted.
SOCIETY OF WOMEN ENGINEERS SCHOLARSHIP
Melissa Kuhn (AWARDED 2010)

This annual national scholarship is awarded to outstanding women in engineering or computer science programs.

WILMER L. AND MARGARET M. KRANICH PRIZE
Lydia George
Linnea Palmer Paton (AWARDED 2010)

This award was established in 1994 by Margaret Kranich to honor WPI students majoring in engineering or science who best exemplify excellence in the humanities and arts and the full integration of these disciplines into their undergraduate experience. Wilmer Kranich, her husband, was dean of graduate studies at WPI. Margaret Kranich taught a variety of courses at WPI over the years and, as an artist, painted portraits of four WPI presidents and of Robert H. Goddard, Class of 1908.

GOLDWATER SCHOLARS
Andrew Black (AWARDED 2010)
Andrew K. Capulli (AWARDED 2010)

The Barry M. Goldwater Scholarship Program, established in 1986 to honor U.S. Sen. Barry Goldwater, is designed to foster and encourage outstanding students to pursue careers in the fields of mathematics, the natural sciences, and engineering.

BENJAMIN A. GILMAN INTERNATIONAL SCHOLARSHIP
Lee Chiang (AWARDED 2010)
Richard Emberley (AWARDED 2010)

Established by the International Academic Opportunity Act, this scholarship provides awards for undergraduate study abroad.

GRADUATE RESEARCH ACHIEVEMENT DAY AWARDS
ENGINEERING DIVISION

INNOVATION PRESENTATION COMPETITION
2nd Place (tie): Choong-Soo Lee (PhD candidate), “A Credit-based Home Access Point (CHAP) to Improve Application Performance on IEEE 802.11 Networks” Advisors: Mark Claypool, Robert Kinicki (AWARDED 2010)

This annual poster symposium is open to all WPI master’s and PhD candidates engaged in research. Monetary prizes and certificates of merit are given for best posters in four divisions: Engineering; Life Sciences and Bioengineering; Management and Social Science; and Science.

PROVOST’S MQP AWARDS
AEROSPACE ENGINEERING
Kevin Arruda, Andrew Camann: “Design of a Scale-Model Human Powered Helicopter” Advisor: David Olinger

BIOLOGY AND BIOCHEMISTRY
Ruowang Li: “Antagonistic Chromatin Remodeling Complexes, Mbd3 and Brg1, Regulate a Set of Common Target Genes in Embryonic Stem Cells” Advisor: Elizabeth Ryder

BIOMEDICAL ENGINEERING
Melissa Morianos, Beatriz Gutierrez, Shanice Jones: “Pressure Ulcer Prevention System” Advisor: Yitzhak Mendelson

BUSINESS
Yutong Qin, Silvia Velásquez: “Portfolio Optimization of Credit Line Utilization” Advisors: Jon Abraham, Arthur Gerstenfeld

CHEMICAL ENGINEERING
Lauren Swalec: “Synthesis of Luminescent Quantum Dots-Semiconductor Nanocrystals and its Application in Environmental Monitoring” Advisors: David DiBiasio, Hong Susan Zhou

CHEMISTRY AND BIOCHEMISTRY
Alison Paquette: “The Role of Cathepsin L in Bactericidal Activity” Advisor: Destin Heilman


CIVIL AND ENVIRONMENTAL ENGINEERING
Cory Alemian, John Flannagan: “Pedestrian Bridge Design and Evaluation in Brimfield, Massachusetts” Advisors: Len Albano, Suzanne LePage

COMPUTER SCIENCE
Megan Tsai, Gage Fleischer, Migdoel Alvarado: “Endicia Webmailer Application” Advisor: David Finkel


ELECTRICAL AND COMPUTER ENGINEERING

HUMANITIES AND ARTS
INTERACTIVE MEDIA AND GAME DEVELOPMENT
Advisors: Robert Lindeman, Britt Snyder

MATHEMATICAL SCIENCES
Jesse Bowers, Colbert Sesanker: “Three Alleles Selection Model in Population Genetics”  
Advisor: Roger Lui
Lindsay Brown, Shanna Infantino, Minh Le, Karen Teague: “An Analysis of the WPI Contribution Trend”  
Advisor: Jon Abraham

MECHANICAL ENGINEERING
Michael Collins, Matthew Rotier, Scott Woodnorth: “Switch-Mode CVT Spring Design”  
Advisor: James Van de Ven

PHYSICS
Cailah DeRoo: “Emergency Meal Kitchen Services”  
Advisors: Mustapha Fofana, Erkan Tuzel
Advisor: Carolann Koleci
Advisors: Nancy Burnham, Christopher Lambert
Tristan Spoor: “Undulating Filaments Swimming in Viscous Fluids”  
Advisor: Stephan Koehler

PROFESSIONAL WRITING
Advisor: Lorraine Higgins

ROBOTICS ENGINEERING
Vadim Chernyak, Timothy Flynn, Jonathan Morgan, Jeffrey O’Rourke, Anton Zalutsky: “Sabertooth, A High Mobility Quadrupedal Robot Platform”  
Advisors: Taskin Padir, Stephen Nestinger, Sonia Chernova

SOCIAL SCIENCE AND POLICY STUDIES
Linnea Palmer Paton: “The Affordable Housing Gap in U.S. Smart Growth Developments”  
Advisor: Robert Krueger
Katherine Rondina: “We Don’t Agree, But We’re Working Together: Examining How Affiliative Motivation and Perspective Taking Affect Social Tuning”  
Advisors: Jeanine Skorinko, Melissa John

WORCESTER POLYTECHNIC INSTITUTE

PRESIDENT’S IQP AWARD
FIRST PLACE:
Chelsea Sheehan, Heidi Robertson, John-Andrew Sandbrook: “Evaluating Business Opportunities with Solar Energy in Un-electrified Areas in Namibia”  
Advisors: Reinhold Ludwig, Svetlana Nikitina
SECOND PLACE (TIE):
LISTED IN NO PARTICULAR ORDER
Sahil Bhagat, Danielle Fontaine, Karl Gibson: “Analysis of Privacy and Interoperability Issues Affecting Danish Consumers of Health IT Systems”  
Advisor: Holly Ault
Melanie Donahue, Blake Kelly, Joshua Matte: “Designing a Water and Sanitation Centre Prototype for Monwabisi Park, Cape Town”  
Advisors: Scott Jiusto and Joseph Petruchelli
Elizabeth Casey, Michael Ciampa, Cailah DeRoo: “Designing Safe Playgrounds for the Klong Toey Community”  
Advisors: Thomas Robertson, Brigitte Servatius
Patrick DeSantis, James Montgomery, Sean Levesque: “An Electronic Interface to Aid in Learning How to Play a Musical Instrument”  
Advisors: Fred Bianchi, Alexander Wyglinski

AEROSPACE ENGINEERING—
AEROSPACE ENGINEERING AWARD
Andrew Oliva, Gregory Schaalman, Simone Staley: “Design and Analysis of Subsystems for a CubeSat Mission”  
Advisor: Nikolaos Gatsonis

BIOMEDICAL ENGINEERING—
ALFRED R. AND JANET H. POTVIN AWARDS
Jonathan Grassman, PhD candidate
Jennifer Sansom, PhD candidate
This award is given to outstanding graduate students in biomedical engineering.
Melissa Kuhn
Andrew Capulli
This award is given to outstanding undergraduate students in biomedical engineering.

BIOLOGY AND BIOTECHNOLOGY—
JAMES F. DANIELLI AWARD
Michelle Arata, MS candidate
This award for excellence in research is named for former department head James F. Danielli, whose model for the cellular membrane remained relevant for a half century. A fellow of the Royal Society, he stressed the importance of research to good teaching and helped build the department into a center for scholarship.
CHEMICAL ENGINEERING—
NEW ENGLAND INSTITUTE OF CHEMISTS / AMERICAN INSTITUTE OF CHEMISTS UNDERGRADUATE AWARD
Ningwei Li
Given by the New England Institute of Chemists and the American Institute of Chemists, this award recognizes outstanding seniors in the Chemical Engineering Department.

CHEMISTRY AND BIOCHEMISTRY—
AMERICAN CHEMICAL SOCIETY DIVISION OF INORGANIC CHEMISTRY AWARD
Meaghan Paris
This award recognizes a student who has demonstrated excellence in organic chemistry at the undergraduate level and has future plans that include a career in chemistry.

AMERICAN INSTITUTE OF CHEMISTS AWARD
BIOCHEMISTRY:
Jaclyn Hepworth
CHEMISTRY:
Nicole Lounsbury
This award recognizes outstanding seniors and graduate students in chemistry and in biochemistry.

HERB BEALL GENERAL CHEMISTRY AWARD
Andrew Black (AWARDED 2008)
Daniel DeCiero (AWARDED 2008)
Courtney Gilbert (AWARDED 2008)
Established to honor the memory of Professor Herb Beall, this award is given to students who have completed the freshman chemistry course with superior academic performance.

CIVIL AND ENVIRONMENTAL ENGINEERING—
ANDREW HOLT MEMORIAL AWARD
Aaron Champagne, Paul Moan
This award is presented to civil engineering seniors who have consistently earned academic honors and who show excellent promise for success.

CARL F. MEYER IMPROVEMENT AWARD IN CIVIL ENGINEERING
Karalee Conover
Established by Professor Emeritus Meyer, this award is presented to civil engineering seniors who have demonstrated the most improvement in academic and professional attitude since entering the department.

FRANK D. DEFALCO AWARD
Richard Emberley (AWARDED 2010)
This award is presented to juniors interested in going into professional practice in the constructed facilities area.

CIVIL ENGINEERING ADVISORY BOARD AWARD
Walter Woodington, Devon Ward
This award is presented to the best MQP poster presentation.

COMPUTER SCIENCE—
COMPUTER SCIENCE OUTSTANDING SENIOR AWARD
Jennifer Spinney, Ian Williams
This award is presented to computer science seniors who have an outstanding academic record and who have contributed to the enrichment and professional development of fellow students.

COMPUTER SCIENCE OUTSTANDING JUNIOR AWARD
Justin Pombrio (AWARDED 2010)
This award is presented to computer science juniors who have an excellent academic record and who show promise for continuing success.

DR. NEIL G. SULLIVAN ’83 MEMORIAL AWARD
Jennifer Spinney (AWARDED 2010)
This award was established in 1991 by members of the Sullivan family in memory of their son and brother, who was killed in an automobile accident that year. It is awarded to juniors majoring in computer science in recognition of demonstrated ability and promise.

ELECTRICAL AND COMPUTER ENGINEERING—
ETA KAPPA NU OUTSTANDING ELECTRICAL ENGINEERING SENIOR TUTOR AWARD
Omar Kiyani

HAROLD S. BLACK AWARD
Travis Collins
Established to honor the memory of inventor Harold S. Black ’21, this award is given by the faculty to ECE seniors who have demonstrated outstanding creativity and enthusiasm in engineering problem solving, practical implementation of problem solutions, and exemplary character in their contributions to the welfare of the WPI community.

WPI-IEEE COMMUNITY SERVICE AWARD
Umair Khan, MS candidate
Karen Anundson
Established by the IEEE University Partnership Program, this award is given to students, staff, and/or faculty who have made outstanding contributions to the ECE community.
HUMANITIES AND ARTS—

CLASS OF 1879 PRIZE FOR OUTSTANDING PROJECTS IN THE HUMANITIES
Sarah Albrecht: “Motives for Change: Signac’s Stylistic Shift”
Advisor: David Samson (AWARDED 2010)
Jeffrey Marrion: “Philosophy and Film: Existentialism and Place”
Advisor: John Sanbonmatsu (AWARDED 2010)
This award is given to undergraduate students for excellent work in Humanities projects that demonstrate exceptional creativity and skill in conceiving, developing, and expressing a theme within any discipline in the humanities and arts.

STEVEN J. KAHN AWARD
Daniel Lettieri
This award is presented to outstanding senior members of the WPI Glee Club in recognition of contributions, commitment, and unwavering loyalty to the organization.

INTERACTIVE MEDIA AND GAME DEVELOPMENT—

IMGD OUTSTANDING SENIOR AWARD
Ryan Chadwick, Matthew Lyon
This award is presented to Interactive Media and Game Development seniors who have an outstanding academic record and who have contributed to the enrichment and professional development of fellow students.

IMGD OUTSTANDING JUNIOR AWARD
Elliot Borenstein (AWARDED 2010)
This award is presented to Interactive Media and Game Development juniors who have an outstanding academic record and who have contributed to the enrichment and professional development of fellow students.

MANUFACTURING ENGINEERING—

SOCIETY OF MANUFACTURING ENGINEERS OUTSTANDING STUDENT AWARD
James Loiselle, Everett Tripp
This award is given to the top three SME members each year.

SOCIETY OF MANUFACTURING ENGINEERS MQP AWARD
Vadim Chernyak, Timothy Flynn, Jonathan Morgan, Jeffrey O’Rourke, Anton Zalutsky: “Sabertooth, A High Mobility Quadrupedal Robot Platform”
Advisors: Taskin Padir, Stephen Nestinger, Sonia Chernova

MATERIALS SCIENCE AND ENGINEERING—

AMERICAN SOCIETY FOR METALS, WORCESTER CHAPTER AWARD
Eric Khzouz: “Grain Growth Kinetics in Steels”
Advisor: Richard Sisson

MATHEMATICAL SCIENCES—

SENIOR MATH AWARD
Kara Greenfield
This award is presented to senior mathematical sciences majors who have shown outstanding performance and who have made valuable contributions to the WPI community.

MATHEMATICAL SCIENCES TEACHING ASSISTANT OF THE YEAR AWARD
Lichen Chen, MS candidate
Presented to the teaching assistant who has made the most exemplary contribution to the department’s educational activities by aiding the students in their learning experience of mathematical sciences.

MECHANICAL ENGINEERING—

ALLAN GLAZER AWARD
Nathan Horvath (AWARDED 2009)
Established in 1992 by the family and friends of Allan Glazer ’47, this award is given to mechanical engineering majors who have demonstrated outstanding academic achievement, special ingenuity in problem solving, and enthusiasm for engineering challenges.

HEALD BROTHERS SCHOLARSHIP
Brendan Gove, Christopher Gowell, Becky Yang
Created in 1990 through the generosity of the Heald Foundation, this competitive scholarship is given to mechanical engineering students who embody, in modern form, the spirit of Yankee ingenuity that characterized the evolution of America’s great manufacturing enterprises. The scholarship endowment honors the memory of the four sons of James N. Heald, Class of 1884; Roger, Richard, Robert, and Stanley Heald all attended WPI.

EDWARD C. PERRY AWARD
Meaghan Busteed, Amanda Rinaldi: “Grab-Bot: Reaching/Retrieving Aid”
Advisors: Holly Ault, Allen Hoffman
This award is given for outstanding projects in the area of mechanical design. The award is made possible through a bequest from Miriam Perry Goll and honors the memory of her father, Edward C. Perry, Class of 1904, a design engineer with General Electric Company throughout his professional career.
PHYSICS—

ROBERT H. GODDARD AWARD
James Kingsley
Endowed by the graduation classes of 1908 and 1909 in memory of Robert H. Goddard ’08, pioneer of American rocketry, this award recognizes outstanding achievement, scholarship, consistent effort, and dedication of purpose in both theoretical and experimental areas of physics.

LAWTON-PLIMPTON AWARD
Kevin Vanslette
Established in honor of Willard Elliot Lawton and Samuel James Plimpton, distinguished former members of the WPI Department of Physics, this award is made in recognition of steady and substantial improvement in physics scholarship, as evidenced by scholastic record and attained depth of understanding.

ROBOTICS ENGINEERING—
OUTSTANDING SENIOR AWARD
Felipe Polido

RESERVE OFFICER TRAINING CORPS

AIR FORCE AND AEROSPACE STUDIES—

UNITED STATES AIR FORCE CADET RESEARCH AWARD
Jason Gabriel (AWARDED 2010)
The Air Force Chief Scientist selects one AFROTC cadet nationwide for noteworthy achievements furthering United States Air Force research in a science or technology area.

DISTINGUISHED GRADUATES
Aarik Devenger, Brijen Patel
The Department of the Air Force Distinguished Graduate designation is awarded to the top 10 percent of senior cadets nationwide for demonstrating outstanding ability, initiative, and leadership qualities desired in Air Force officers. Cadets are selected based on academics, overall military performance, leadership potential, and physical fitness.

AFROTC COMMANDER’S TROPHY
Jason Gabriel
This award recognizes the department’s senior cadet who best demonstrates outstanding future officer potential through inspirational leadership, dedication, and selfless service.

SOCIETY OF AMERICAN MILITARY ENGINEERS AWARD
Aarik Devenger
This award recognizes the department’s Outstanding Senior AFROTC engineering student of the year.

FIELD TRAINING DISTINGUISHED GRADUATE
Nicholas Ridley (AWARDED 2009)
The Field Training Distinguished Graduate designation is awarded to the top 10 percent of field training cadets. Cadet Ridley was his flight’s best cadet.

AIR FORCE ASSOCIATION AWARD
Nicholas Ridley (AWARDED 2010)
This award recognizes the department’s most outstanding junior cadet.

DAUGHTERS OF THE AMERICAN REVOLUTION AWARD
Brijen Patel
This award recognizes one outstanding senior cadet at each Air Force and Aerospace Studies department. To be eligible, a cadet must rank in the top 25 percent of both the Aerospace Studies class and the institution’s graduating class. They must also demonstrate dependability, good character, discipline, leadership ability, and a fundamental and patriotic understanding of the importance of ROTC.

AMERICAN LEGION SCHOLASTIC EXCELLENCE AWARD
Michael Blaess (AWARDED 2008 AND 2009)
Aarik Devenger (AWARDED 2010)
The American Legion Scholastic Excellence Award recognizes a sophomore, junior, and senior cadet at each unit for scholastic achievement. To be eligible, a cadet must rank in the upper 10 percent of their graduating class and in the upper 25 percent of their Aerospace Studies class, must demonstrate outstanding military leadership qualities, and must actively participate in constructive student activities such as student organizations or sports.

SPIRIT AWARD
Michael J. Blaess
This award, sponsored by the United States Automobile Association, recognizes the student at each unit who best displays the traits and characteristics that embody the spirit of service to others.

MILITARY SCIENCE STUDIES—

DISTINGUISHED GRADUATE AWARD
Michael Nagle
This award is presented for displaying outstanding qualities of leadership, high moral character, noteworthy academic achievement, and exceptional aptitude for Military Science.

NAVAL SCIENCE STUDIES—

DISTINGUISHED GRADUATE AWARD
Michael Collins
This award is given to the Naval Reserve Officers Training Corps graduating senior who demonstrates the highest aptitude for service.
Completed in 1868, WPI’s first building is named for John Boynton, a prosperous tinware manufacturer who founded the Institute in 1865 with a gift of $100,000. Boynton Hall was one of the first buildings designed by noted architect Stephen Earle and was constructed of granite obtained from local quarries. The building originally housed classrooms and labs, where students learned the theory of science and engineering; they applied that theory next door in the Washburn Shops. The towers of these two buildings now symbolize WPI’s unique philosophy of education, the merger of theory and practice.
Worcester Polytechnic Institute

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Today’s Commencement exercises are a modern recreation of a ceremony that dates back to the Middle Ages. The pageantry of the academic procession and of the degree-granting ceremony, and the dignity and color of the academic gowns, are a reminder of the long tradition of the college.

Each degree recipient at WPI receives his or her diploma individually from the president. Those who have earned the degree of doctor of philosophy, the highest academic degree awarded by any university, also receive a hood symbolizing his or her achievement, presented by the faculty member who has sponsored the candidate.

The academic costume—caps and gowns and hoods—worn today is particularly striking, for Commencement is one of the few occasions in the United States at which academic dress is worn. Until recently, students and faculty at English colleges and universities wore their gowns in class, in university dining halls, and at all official occasions.

Academic dress originated in medieval costume. At the time when universities first came into being, in the 12th century, everyone wore gowns (that is, long, full-flowing robes) to help keep warm in unheated buildings. There were, of course, considerable differences in elegance and style between the extremes of the social and economic scales, and in many cases the king decreed just who could wear what.

Over the gown would often be worn a cloak (usually with a cowl or hood attached), just as we wear coats today. The origin of the cap is more obscure. The “mortarboard” cap usually worn today seems to have been introduced at Oxford University sometime in or before the 17th century.

The gown soon fell out of fashion with the general public, but it remained a distinctive part of the scholars’ wardrobe, serving to set them apart from the rest of the community—hence the perennial controversy between “town and gown.” Until after the Civil War, students at most U.S. universities wore caps and gowns daily while in residence. Designs varied until they were standardized by the American Intercollegiate Commission in 1894.

At that time it was decided that all robes would be black—bachelors’ gowns to be made of worsted stuff with pointed sleeves, masters’ gowns of silk with long, closed sleeves, doctors’ gowns of silk with longer sleeves and faced with black velvet from hem to neck and back. They also carried three velvet bands around each sleeve about the elbow. Hoods were made of the same material as the gowns, the length varying with the degree. The lining of the hood indicated the university by its colors. The border of the hood indicated the academic discipline in which the degree was earned, as listed below:

- Agriculture ........................................ Maize
- Arts, Letters, Humanities .......................... White
- Commerce, Accountancy, Business ........... Light Brown
- Dentistry ............................................. Lilac
- Economics ......................................... Copper
- Education ......................................... Light Blue
- Engineering ........................................ Orange
- Fine Arts, including Architecture ............... Brown
- Forestry ............................................. Russet
- Journalism ......................................... Crimson
- Law .................................................. Purple
- Library Science .................................... Lemon
- Medicine ............................................. Green
- Music ............................................... Pink
- Nursing ............................................. Apricot
- Oratory (Speech) .................................. Silver Gray
- Pharmacy .......................................... Olive Green
- Philosophy ......................................... Dark Blue
- Physical Education ................................. Sage Green
- Public Administration (including Foreign Service) . Peacock Blue
- Public Health ....................................... Salmon Pink
- Science .............................................. Golden Yellow
- Social Work ......................................... Citron
- Theology ............................................ Scarlet
- Veterinary Science ................................. Gray
A FEW NOTES ABOUT COMMISSION DAY

The annual graduation ceremony is an important milestone in the lives of our students and their families. The information on these pages will help make sure this is an enjoyable and memorable event for everyone.

Processional and Recessional—
The ceremony begins at about 10:30 a.m. with the processional. The marchers line up in front of Boynton Hall in the following order: honorary marshal, the colors, honorary marshal for graduate students, candidates for graduate degrees, ceremonial marshal, candidates for undergraduate degrees, faculty members, and the stage party. The procession moves across Earle Bridge and follows the roadway past Alden Memorial and Sanford Riley Hall, then moves onto the Quadrangle. (Guests are asked not to block the progress of the processional. It is especially important to keep the center aisle clear so marchers may make their way to their seats.)

At the ceremony’s conclusion, the marchers, in reverse order, move down the center aisle and proceed toward Reunion Plaza. Again, guests are asked not to interfere with their progress.

This year’s honorary marshal is William W. Farr, associate professor of mathematical sciences and winner of the 2011 Trustees’ Award for Outstanding Teaching. The honorary marshal for graduate students is Kaveh Pahlavan, professor of electrical and computer engineering and winner of the 2011 Trustees’ Award for Outstanding Research and Creative Scholarship. The ceremonial marshal is Eric W. Overström, provost and senior vice president. The baton carried by the honorary marshal is the walking stick of John Boynton, a founder of WPI.

President Berkey wears the Presidential Medallion, with the WPI seal cast in silver and the names and years of service of all 15 of WPI’s presidents engraved on small silver plates that form links in the chain. Provost Overström carries the Academic Mace, 42-inch-tall staff made from fluted cherry wood topped with a circular silver pedestal on which sits, on edge, a large silver medal that has the WPI seal on both sides. (The Presidential Medallion and the Academic Mace were gifts to the university from President Berkey and his wife, Catherine, in 2007.)

Photographs and Videos—
The photographs and videos you take today will be treasured mementos. The following information should help all of our guests get the shots they want.

Photos before the ceremony: Degree candidates line up for the processional around 9:30 a.m. The line of graduate students begins in front of Boynton Hall and curves around the building toward Gordon Library. The line of undergraduate students begins near the library and continues into Freeman Plaza. Guests are asked to finish taking photos and proceed to the Quadrangle by 10:15.

Photos of the ceremony: Commencement Photographers Inc. will take a photograph of every graduate receiving his or her diploma. The company will mail proofs and an order form to graduates or their families. In addition, WPI will videotape the entire ceremony from several vantage points. For more information about the photo service, you may call Commencement Photographers at +1-978-851-5924. Video excerpts from the ceremony will be linked from the WPI home page (wpi.edu) on the afternoon of Commencement day. A complete, high-quality video of the ceremony will be available for downloading within two weeks at wpi.edu/+Commencement.

Photos after the ceremony: If you’d like to capture your happy graduate after the ceremony, we recommend the following locations:
• The Stage Area: After the procession has left the Quadrangle, guests are invited to take photos on or near the stage (WPI banner and plantings in background).
• Earle Bridge: Spanning West Street, the footbridge is decorated with flowering plants.
• Boynton Hall: WPI’s first building, with its granite exterior and clock tower, is located just across the footbridge.
• Higgins House: This WPI mansion, located directly behind the Campus Center, is surrounded by plantings and formal gardens that are in full bloom at this time of year.
VIEWING THE CEREMONY—
Tickets are not necessary for an outdoor Commencement; there is adequate seating on the Quadrangle for all guests. Should inclement weather prevent an outdoor ceremony, Commencement will take place in Harrington Auditorium and only guests with tickets will be admitted. Guests without tickets may view a broadcast of the ceremony in the locations listed below. These locations will also be open during an outdoor ceremony for guests who would prefer to view the ceremony indoors.

*Campus Center (#4 on map)
  Top level: Hagglund Room, Mid-Century Room
  Street level: Morgan Room
  Lower level: Chairman's Room, Taylor Room

*Higgins Laboratories (#11 on map)
  Rooms 116, 154, 202, 218

Atwater Kent Laboratories (#1 on map)
  Room 116 (Newell Lecture Hall)
  Rooms 219, 233

Fuller Laboratories (#7 on map)
  Perreault Lecture Hall, Upper and Lower

Olin Hall (#12 on map)
  Rooms 107

Salisbury Laboratories (#13 on map)
  Rooms 104 and 105
  Room 115 (Kinnicutt Lecture Hall)

POST-COMMENCEMENT RECEPTION—
A reception for graduates and their families and guests will take place outdoors in and around Reunion Plaza and the Campus Center immediately following the ceremony. (In the event of inclement weather, the reception will take place in the Campus Center Odeum.)

AMENITIES—
Restrooms and drinking fountains are located in Harrington Auditorium, Alden Memorial, Daniels Hall, Higgins Laboratories, and the Campus Center. Bottled water stands are located on the sides of the Quadrangle near Daniels Hall and Harrington Auditorium. Food and drink may be purchased in the Campus Center and in Harrington Auditorium.

IN CASE OF EMERGENCY—
A first aid station is located in Harrington Auditorium. Campus Police and WPI Emergency Medical Technicians may be reached by calling 508-831-5433. In an emergency, ushers can help you secure assistance.
Dear Worcester Tech, our Worcester Tech, our praises ring to thee. To Alma Mater good and true, We pledge our loyalty Long have we felt thy guiding hand, Thy teachings broad and free With praises loud in every land, We'll show our love for thee. Then here's to Good old Worcester Tech Come, fellows, join in our refrain Wave high the colors crimson and gray For good old Worcester Tech.

Following his graduation in 1910, Willard Hedlund taught civil engineering at WPI until 1913. He later served the city of Worcester as superintendent of public buildings. Hedlund's original version of the Alma Mater has seen a few changes over the years; these are the lyrics currently sung on the WPI campus.

A second stanza often follows:

As years roll on, and changes bring, To all things great and small We still will thee in reverence bold, We'll greet thee, one and all In accents which no one will doubt, In terms so strong and bold The world will know thy worth to us Increases many fold Then here's to good old Worcester Tech, Come, fellows, join in our refrain Wave high the colors crimson and gray, For good old Worcester Tech