COMMENCEMENT CEREMONY 2010

May Seventeenth
Two Thousand and Ten
Prudential Center
Newark, New Jersey
Welcome to the 2010 commencement ceremony of New Jersey Institute of Technology. The university extends heartfelt congratulations to its graduates on their accomplishment and commends the families and friends who have helped them reach this milestone of academic achievement.

By definition, commencement means “to begin to be.” As the members of the Class of 2010 begin to be, we wish them every success, confident that they have been well prepared for a life of contribution in the 21st century, to meet its challenges and embrace its myriad opportunities.

Well done!

Information in this program is compiled prior to final certification of candidates for graduation. Only the diploma and certified transcript of each student are official documents which attest to the granting of a degree.
Commencement, an age-old tradition, is a joyous yet solemn event signifying years of study and sacrifice.

To preserve the appropriateness of this august occasion —

The audience should remain seated throughout the ceremony and until the recessional is completed.

There will be no standing in the aisles at any time during the ceremony.

Guests are not permitted on the arena floor.

Any attendee requiring assistance should contact uniformed Prudential Center personnel.

Members of the audience are asked to turn off cell phones and other electronic devices.

*Your cooperation is greatly appreciated.*
### UNIVERSITY CEREMONY

| Class Crier                      | Annacler Harris-Blevin ’10  
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<th>Senior Class President</th>
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<td>Jack Gentul, Dean of Students</td>
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<td>Bagpiper</td>
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<td>Presiding</td>
<td>Robert A. Altenkirch, President</td>
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<td>Greetings</td>
<td>Robert A. Altenkirch, President</td>
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<td>Speaker</td>
<td>Steven B. Saperstein ’84, President</td>
</tr>
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<td>NJIT Alumni Association</td>
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<td>Speaker</td>
<td>Annacler Harris-Blevin ’10</td>
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<td>Presentation of Honorary Degrees</td>
<td>Kathleen Wielkopolski, Chair</td>
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<td>Board of Trustees</td>
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<td>Ralph Izzo</td>
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<td>Chairman of the Board, President and Chief Executive Officer</td>
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<td>Public Service Enterprise Group, Incorporated</td>
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<td>Leon G. Smith, MD, MACP</td>
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<td>Past Chairman</td>
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<td>Department of Medicine</td>
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<td>Saint Michael’s Medical Center</td>
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<td>The Honorable Kim Guadagno</td>
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<td>Lieutenant Governor</td>
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<td>Presenter/Recipient</td>
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<td>Commencement Address</td>
<td>The Honorable Kim Guadagno, Lieutenant Governor, State of New Jersey</td>
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<td>Interlude</td>
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<td>Donald H. Sebastian, Senior Vice President for Research and Development</td>
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<td>Presentation of Candidates for Doctoral Degrees</td>
<td>Ronald S. Kane, Dean for Graduate Studies</td>
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<td>Daniel A. Henderson, Chief Executive Officer Phonetel</td>
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<td>Donald H. Sebastian, Senior Vice President for Research and Development</td>
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<td>Presentation of Candidates for Baccalaureate Degrees</td>
<td>Urs P. Gauchat, Dean for College of Architecture and Design</td>
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<td></td>
<td>John Cays, Associate Dean for College of Architecture and Design</td>
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<tr>
<td>College of Science and Liberal Arts</td>
<td>Fadi P. Deek, Dean for College of Science and Liberal Arts</td>
</tr>
<tr>
<td></td>
<td>Robert S. Friedman, Associate Professor for Department of Humanities</td>
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<tr>
<td>School of Management</td>
<td>Robert English, Interim Dean for School of Management</td>
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<td>Shanthi Gopalakrishnan, Associate Dean for Academics for School of Management</td>
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<tr>
<td>College of Computing Sciences</td>
<td>Narain Gehani, Dean for College of Computing Sciences</td>
</tr>
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<td>Barry Cohen, Associate Dean for College of Computing Sciences</td>
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<tr>
<td>Newark College of Engineering</td>
<td>Sunil Saigal, Dean for Newark College of Engineering</td>
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<tr>
<td></td>
<td>Fadi A. Karaa, Associate Professor for Department of Civil and Environmental Engineering</td>
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</tbody>
</table>
Presentation of Candidates for Master’s Degrees

College of Architecture and Design  
Urs P. Gauchat, Dean  
College of Architecture and Design

John Cays, Associate Dean  
College of Architecture and Design

College of Science and Liberal Arts  
Fadi P. Deek, Dean  
College of Science and Liberal Arts

Robert S. Friedman, Associate Professor  
Department of Humanities

School of Management  
Robert English, Interim Dean  
School of Management

Shanthi Gopalakrishnan  
Associate Dean for Academics  
School of Management

College of Computing Sciences  
Narain Gehani, Dean  
College of Computing Sciences

Barry Cohen, Associate Dean  
College of Computing Sciences

Newark College of Engineering  
Sunil Saigal, Dean  
Newark College of Engineering

Fadi A. Karaa, Associate Professor  
Department of Civil and Environmental Engineering

Conferring of Degrees  
Kathleen Wielkopolski, Chair  
Board of Trustees

Alma Mater

Recessional

Harp selections  
Odarka Polanskyj Stockert ’88

Listing of the Candidates for Doctoral Degrees begins on page 11.  
Listing of the Candidates for Master’s Degrees begins on page 26.  
Listing of the Candidates for Baccalaureate Degrees begins on page 36.
By its charter, New Jersey Institute of Technology is empowered to confer honorary degrees upon individuals of distinguished achievement in recognition of their personal and professional accomplishments and their contributions to society.
THE DEGREE OF DOCTOR OF HUMANE LETTERS, HONORIS CAUSA

Presented to

THE HONORABLE KIM GUADAGNO
LIEUTENANT GOVERNOR, STATE OF NEW JERSEY

The Honorable Kim Guadagno was born in Waterloo, Iowa. As a child, she moved frequently throughout the country before calling New Jersey her home. Her husband, Mike, grew up in Monmouth County, where they decided to raise their three boys, Kevin, Michael and Anderson.

After graduating from Ursinus College in 1980, and then American University law school in 1983, Guadagno began her public career as a federal prosecutor. She earned a reputation as being tough and independent, qualities that proved valuable during her successful tenure on the Organized Crime and Racketeering Strike Force in Brooklyn, NY. After Guadagno married her husband, she moved to New Jersey, where she took a position in the United States Attorney's office in Newark. For her achievements, she was awarded the United States Department of Justice's highest honor on two separate occasions. After leaving the U.S. Attorney's Office, Guadagno went on to serve as an Assistant Attorney General in New Jersey.

As an Assistant Attorney General and the Deputy Director of the Division of Criminal Justice, she was in charge of statewide criminal investigations with oversight of 300 prosecutors and investigators. After leaving office in 2001, Guadagno became an attorney in private practice, yet continued her commitment to public service. She served on the Monmouth Beach planning board for sixteen years and later as Commissioner in Monmouth Beach from 2005-2007.

In 2007, Guadagno became the 75th Sheriff of Monmouth County, and the county's first woman sheriff. As Sheriff, she pursued an aggressive agenda to fight crime, strengthen community outreach, and enact a series of innovative policies across a 650-member agency with a $65 million budget. In addition to these responsibilities, Guadagno also taught at Rutgers Law School-Newark from 2001 through her election as Lieutenant Governor in 2009. She was sworn in as New Jersey's first Lieutenant Governor on January 19, 2010.

In recognition of her public service as New Jersey's first lieutenant governor, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Humane Letters, honoris causa, upon The Honorable Kim Guadagno.
Ralph Izzo, PhD has been chairman, president and chief executive officer of Public Service Enterprise Group Incorporated (PSEG) since April 2007. He had served as president and chief operating officer of PSEG since October 2006 when he was also elected to the Board of Directors. Earlier, he was president and chief operating officer of Public Service Electric and Gas Company. Since joining PSE&G in 1992, Izzo was elected to several executive positions within PSEG’s family of companies. In these capacities, he broadened his experience in the areas of general management, strategic planning and finance.

Dr. Izzo is a well-known leader within the utility industry, as well as the public policy arena. His public policy experience includes service as an American Physical Society Congressional Science Fellow in the office of U.S. Senator Bill Bradley. He also served four years as a senior policy advisor in the Office of New Jersey Governor Thomas H. Kean, specializing in energy, science and technology.

Dr. Izzo’s career began as a research scientist at the Princeton Plasma Physics Laboratory, performing numerical simulations of fusion energy experiments. He has published or presented over 35 papers on magnetohydrodynamic modeling. Izzo received his bachelor of science and master of science degrees in mechanical engineering and his doctor of philosophy degree in applied physics from Columbia University. He also completed the requirements for a master of business administration degree with a concentration in finance from the Rutgers Graduate School of Management. He is listed in numerous editions of Who’s Who and has been the recipient of national fellowships and awards.

Dr. Izzo is chairman of the board for the Drumthwacket Foundation. He serves on the board of directors for the New Jersey Chamber of Commerce, the New Jersey Utilities Association, the Edison Electric Institute (EEI), the Nuclear Energy Institute (NEI), The Center for Energy Workforce Development, and Rutgers-The State University of New Jersey.

In recognition of his outstanding professional achievements that have kept New Jersey on the forefront of energy sustainability, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Ralph Izzo.
THE DEGREE OF DOCTOR OF SCIENCE, HONORIS CAUSA

Presented to

LEON G. SMITH, MD, MACP
PAST CHAIRMAN OF THE DEPARTMENT OF MEDICINE
SAINT MICHAEL’S MEDICAL CENTER

Dr. Leon G. Smith is an alumnus of Georgetown Medical School, Yale Medical School, and the National Institutes of Health. He served as chief of infectious diseases at Saint Michael’s Medical Center in Newark for 40 years before becoming chairman of the hospital’s Department of Medicine. He also has taught medicine and preventive medicine at the New Jersey Medical School.

He co-founded and participates in the Inter-City Infectious Disease Rounds Group, which meets weekly at New York City/New Jersey area hospitals. Past president of the National Foundation for Infectious Disease, Dr. Smith has published extensively on infectious diseases and has served on many committees of the Infectious Disease Society of America, which presented him with its Mentor Award for training more infectious disease fellows than anyone. He recently founded and funded the Infectious Disease Hall of Fame at Saint Michael’s Medical Center.

Dr. Smith developed the first viral diagnostic laboratory in New Jersey, as well as HIV and hepatitis C clinics at Saint Michael’s Medical Center. He has received numerous awards, including the Clara Barton Award and the Best Doctors Award, and has served as a consultant to the Vatican. He co-chairs the Medical Society of New Jersey’s Bio-Terrorism Task Force and is a Master of the American College of Physicians. Dr. Smith has continuously advised NJIT on medical education, and assisted NJIT to establish the accelerated pre-medical program with St. George’s University.

In recognition of his 45 years of dedication to the Newark community and the State of New Jersey as a physician and humanitarian, and for his support of the partnership between NJIT and St. George’s University Medical School, New Jersey Institute of Technology is pleased to confer the degree of Doctor of Science, honoris causa, upon Dr. Leon G. Smith.
THE HASHIMOTO PRIZE
Presented to
SHUAI WANG ’10

Over a distinguished lifetime, Kazuo Hashimoto garnered more than 1000 patents and applications related to his invention of the telephone answering machine and other technical devices in electronics and telecommunications. One hundred of these were awarded in the United States alone.

He was a recipient of Japan's Medal of Honor, the Yellow Ribbon, and was one of the select individuals in his country esteemed as a Living National Treasure.

New Jersey Institute of Technology, in recognition of his extraordinary body of creative work and his encouragement of invention, awarded him the degree of Doctor of Science, honoris causa, at these ceremonies in 1994.

In May of 1995, the Hashimoto Endowment was established at NJIT through the generosity and vision of Dr. Hashimoto who found this university to provide an environment in which applied research and scholarship flourish.

A key element of the endowment's purpose is the annual award of the Hashimoto Prize to a doctoral candidate in electrical or computer engineering who has demonstrated high achievement and promise in the field.

New Jersey Institute of Technology is proud to announce the recipient of the Hashimoto Prize is Shuai Wang, an outstanding scholar who has earned the degree of Doctor of Philosophy through distinguished scholarship and research in electrical and computer engineering.
CANDIDATES FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

APPLIED PHYSICS
(Degree conferred jointly by NJIT and Rutgers-Newark, New Jersey)

† Peng Gao
BS Applied Physics, Wuhan University, People’s Republic of China
MS Applied Physics, Wuhan University, People’s Republic of China
Dissertation:
Probing the Complex Magnetic, Electronic and Structural Properties in Correlated Manganese Oxides
Advisor:
Trevor A. Tyson, PhD

† Kangzhu Guo
BS Applied Physics, Peking University, Beijing, People’s Republic of China
ME, Stevens Institute of Technology, Hoboken, New Jersey
Dissertation:
Gaussian Beam Diaphragm Fiber Optic Sensor
Advisor:
Ken K. Chin, PhD

* Ivan Padron
BS Applied Physics, University of Havana, Cuba
Dissertation:
Integration of Electronic and Optical Techniques in the Design and Fabrication of Pressure Sensors
Advisors:
Anthony Fiory, PhD
Nuggehalli Ravindra, PhD

† Sreeya Sreevatsa
BS Electronics and Communication Engineering, People’s Education Society Institute of Technology, Bangalore, India
MS Electrical Engineering and Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
Carbon Nanotube Electronic Structures as Anti-Corrosion Coatings
Advisor:
Haim Grebel, PhD

† — August 2009 graduates
* — January 2010 graduates
* Changyi Tan
  BS Astronomy, Nanjing University, Nanjing, People's Republic of China
  MS Plasma Physics, Institute of Applied Physics and Computational Mathematics, Beijing, People's Republic of China
  Dissertation:
  *Relationship between Photospheric Magnetic Fields and Coronal Activities*
  Advisor:
  *Haimin Wang, PhD*

† Angelo P. Verdoni
  BS Applied Physics, University of Colorado at Boulder, Colorado
  Dissertation:
  *High Resolution Solar Observations from First Principles to Applications*
  Advisor:
  *Carsten Denker, PhD*

**BIOLOGY**
(Degree conferred jointly by NJIT and Rutgers-Newark, New Jersey)

* Jeff Cheng
  BS Biochemistry, State University of New York at Stony Brook, New York
  MS Computer Science, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  *Bioinformatics Study of Altered Response to IFN-Γ Stimulation in Human Macrophage Subsequent to TB Infection*
  Advisors:
  *Richard Pine, PhD*
  *Michael Recce, PhD*

**BIOMEDICAL ENGINEERING**
(Degree conferred jointly by NJIT and UMDNJ, Newark, New Jersey)

Ajitha Patlolla
BS Mechanical Engineering, Jawaharlal Nehru Technological University, Hyderabad, India
MS Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey
Dissertation:
*Novel Electrospun Composite Scaffold for Bone Tissue Engineering*
Advisor:
*Treena Arinzeh, PhD*
CHEMICAL ENGINEERING

† Shuli Teng  
BS Chemical Engineering and Technology, Dalian University of Technology,  
People’s Republic of China  
Dissertation:  
Investigation of the Dynamic Behavior of Particle Collisions and Size Attrition Mechanisms within Fluid Energy Mills  
Advisors:  
Rajesh N. Dave, PhD  
Costas G. Gogos, PhD

* Qi Zhang  
BS Polymeric Materials and Engineering, Zhengzhou University, People’s Republic of China  
MS Materials Processing Engineering, Beijing University of Chemical Technology, People’s Republic of China  
Dissertation:  
Investigation of Coating During Particulates Attrition in Fluid Energy Mill (FEM)  
Advisors:  
Rajesh N. Dave, PhD  
Costas G. Gogos, PhD

Huiju Liu  
BE Mechanical Engineering, Beijing University of Chemical Technology, People’s Republic of China  
ME Mechanical Engineering, Beijing University of Chemical Technology, People’s Republic of China  
Dissertation:  
Hot Melt Mixing/Extrusion and Dissolution of Drug (Indomethacin) in Acrylic Copolymer Matrices  
Advisors:  
Costas G. Gogos, PhD  
Marino Xanthos, PhD

CHEMISTRY

Ornthida Sae-Khow  
BS Chemistry, Chulalongkorn University, Bangkok, Thailand  
MS Chemistry, Chulalongkorn University, Bangkok, Thailand  
Dissertation:  
Microextraction Techniques Using Carbon Nanotubes as the Media  
Advisor:  
Somenath Mitra, PhD
CIVIL ENGINEERING

* Kitae Kim  
BS Civil Engineering, Chung-Ang University, Seoul, Korea  
MS Transportation Planning and Engineering, Polytechnic University, New York  
Dissertation:  
Optimal Train Control on Various Track Alignments Considering Speed and Schedule Adherence Constraints  
Advisor:  
Steven I-Jy Chien, PhD

* Joseph J. Lifrieri  
BS Geology, City College of New York, New York  
MS Civil Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Inter-Relationship of Mechanical and Bio-Chemical Processes Governing the Settlement of Municipal Solid Waste (MSW) Using the (C+H)/L Ratio  
Advisor:  
Dorairaja Ragh, PhD

Yavuz Yusuf Ulusoy  
BS Civil Engineering, University of Gaziantep, Turkey  
MS Civil Engineering, University of Gaziantep, Turkey  
MS Transportation Planning and Engineering, Polytechnic University, New York  
Dissertation:  
Optimizing Integrated Service for a Transit Route with Heterogeneous Demand  
Advisor:  
Steven I-Jy Chien, PhD

COMPUTER ENGINEERING

Nitesh Bhicu Guinde  
BS Electronics and Telecommunications Engineering, Goa Engineering College, Goa University, India  
MS Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Hardware Support for Real-Time Network Security and Packet Classification Using Field Programmable Gate Arrays  
Advisor:  
Sotirios G. Ziavras, PhD

* Shuai Wang  
BS Computer Science, Nanjing University, People's Republic of China  
Dissertation:  
Soft-Error Resilient On-Chip Memory Structures  
Advisor:  
Jie Hu, PhD
**COMPUTER SCIENCE**

* Satish Chikkagoudar  
  BS Engineering in Computer Science, Karnatak University, Dharwad, India  
  MS Computer Science, California State University, Chico, California  
  Dissertation:  
  *Algorithms in Comparative Genomics*  
  Advisor:  
  *Usman Roshan, PhD*

  Xinfa Hu  
  BE, Xi’an Jiaotong University, Xi’an, People’s Republic of China  
  ME, Xi’an Jiaotong University, Xi’an, People’s Republic of China  
  Dissertation  
  *New Data Structures, Models, and Algorithms for Real-time Resource Management*  
  Advisor  
  *Joseph Leung, PhD*

† Pawel Placek  
  BS Computer Science, Jagiellonian University, Cracow, Poland  
  MS Computer Science, Jagiellonian University, Cracow, Poland  
  Dissertation:  
  *Processing Techniques for Partial Tree-Pattern Queries on XML Data*  
  Advisor:  
  *Dimitri Theodoratos, PhD*

* Xiaoying Wu  
  BS Computer Science, Central South University, People’s Republic of China  
  MS Computer Science, National University of Singapore, Singapore  
  Dissertation:  
  *Semantics and Efficient Evaluation of Partial Tree-Pattern Queries on XML*  
  Advisor:  
  *Dimitri Theodoratos, PhD*
**ELECTRICAL ENGINEERING**

* Handan Agirman-Tosun  
  BS Electrical Engineering, Hacettepe, Ankara, Turkey  
  MS Electrical Engineering, Middle East Technical University, Ankara, Turkey  
  Dissertation:  
  *Generalized Discrete Fourier Transform with Non-Linear Phase: Theory and Design*  
  Advisor:  
  *Ali N. Akansu, PhD*

* Niu Bo  
  BS Electrical Engineering, Xidian University, Xi’an, People’s Republic of China  
  MS Electrical Engineering, Xidian University, Xi’an, People’s Republic of China  
  Dissertation:  
  *Communications over Wireless Networks: Cooperation and Channel State Information Requirements*  
  Advisor:  
  *Alexander M. Haimovich, PhD*

Han-Yun Chang  
BS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
MS Electrical Engineering, Columbia University, New York, New York  
Dissertation:  
*Growth, Characterization and Device Application of Si/Ge Nano-Heterojunctions*  
Advisor:  
*Leonid Tsybeskov, PhD*

* Ehsan Haghani Dogaheh  
  BS Electrical Engineering, Sharif University of Technology, Tehran, Iran  
  MS Communications Engineering, Chalmers University of Technology, Gothenburg, Sweden  
  Dissertation:  
  *Service Oriented Networking for Multimedia Applications in Broadband Wireless Networks*  
  Advisor:  
  *Nirwan Ansari, PhD*

* Hana Godrich  
  BS Electrical Engineering, Technion-Israel Institute of Technology, Haifa, Israel  
  MS Electrical Engineering, Ben-Gurion University, Beer-Sheva, Israel  
  Dissertation:  
  *Target Localization in MIMO Radar Systems*  
  Advisor:  
  *Alexander M. Haimovich, PhD*
† Seon Woo Lee  
BS Electronics Engineering, Kwangwoon University, Seoul, Republic of Korea  
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Electrical and Optical Properties of Carbon Nanotube Intra-Connects and Conductive Polymers  
Advisor:  
Haim Grebel, PhD

* Sara Gatmir Motahari  
BS Electrical Engineering, Sharif University of Technology, Tehran, Iran  
MS Electrical Engineering, Chalmers University of Technology, Gothenburg, Sweden  
Dissertation:  
Inference Prevention in Ubiquitous Social Computing  
Advisors:  
Quentin Jones, PhD  
Sotirios Ziavras, PhD

* Pitipatana Sakarindr  
BS Electrical Engineering, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand  
MS Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Adaptive Trust and Reputation System as a Security Service in Group Communications  
Advisor:  
Nirwan Ansari, PhD

† Mohamed A. Salem  
BS Electrical Engineering, Ain Shams University, Cairo, Egypt  
MS Electrical Engineering, Ain Shams University, Cairo, Egypt  
Dissertation:  
Practical Localized Waves Generation  
Advisor:  
Edip Niver, PhD

* Miao Shi  
BS Electrical Engineering, Xidian University, Xi’an, People’s Republic of China  
MS Electrical Engineering, National University of Singapore, Singapore  
Dissertation:  
Advanced Classification of OFDM and MIMO Signals with Enhanced Second Order Cyclostationarity Detection  
Advisor:  
Yeheskel Bar-Ness, PhD
* Igor Stanojev  
BS Electrical Engineering, University of Belgrade, Serbia and Montenegro  
MS Electrical Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Cooperative Retransmission Protocols in Fading Channels: Issues, Solutions and Applications  
Advisor:  
Yeheskel Bar-Ness, PhD

ENVIRONMENTAL SCIENCES  
(Degree conferred jointly by NJIT and Rutgers-Newark, New Jersey)

* Ronnachai Tiyarattanachai  
BS Environmental Engineering, Chulalongkorn University, Bangkok, Thailand  
MS Environmental Management, Chulalongkorn University, Bangkok, Thailand  
Dissertation:  
Institutional Controls and Brownfield Redevelopment  
Advisors:  
Nancy L. Jackson, PhD  
Daniel J. Watts, PhD

INDUSTRIAL ENGINEERING

* Sun Olapiriyakul  
BS Mechanical Engineering, Sirindhorn International Institute of Technology, Thammasat University, Phathum, Than, Thailand  
MS Industrial Engineering, San Jose State University, California  
Dissertation:  
End-Of-Life Analysis of Nanotechnology Products  
Advisor:  
Reggie J. Caudill, PhD

Mojisola K. Otegbeye  
BS Industrial Engineering, Ahmadu Bello University, Zaria, Nigeria  
MS Engineering Management, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
The Floating Contract between Risk-Averse Supply Chain Partners in a Volatile Commodity Price Environment  
Advisor:  
Jian Yang, PhD
* Randy A. Reagan
  BS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey
  MS Mechanical Engineering, University of Michigan, Ann Arbor, Michigan
  MBA, New York University, New York
  Dissertation:
  Resource Assignment in Short Life Technology Intensive (SLTI) New Product Development (NPD)
  Advisor:
  Sanchoy Das, PhD

INFORMATION SYSTEMS

* Madhavi M. Chakrabarty
  BS Civil Engineering, Maulana Azad College of Technology, Bhopal, India
  MS Computer Application, Indian Institute of Technology, New Delhi, India
  Dissertation:
  Understanding Cognitive Differences in Processing Competing Visualizations of Complex Systems
  Advisor:
  David Mendonca, PhD

Fang Chu
BS Computer Science, Tianjin University, People’s Republic of China
Dissertation:
Variance Reduction Techniques for Estimating Quantiles and Value At-Risk
Advisor:
Marvin Nakayama, PhD

Sukeshini Grandhi
BS Mathematics, University of Madras, Madras Christian College, India
MS Mathematics, University of Madras, Madras Christian College, India
MBA, University of Western Australia, Perth, Australia
Dissertation:
Interpersonal Information Management in Communication Technology—A Relational Perspective
Advisor:
Quentin Jones, PhD

* Kamolbhan Olapiyakul
  BS Industrial Engineering, Sirindhorn International Institute of Technology, Thammasat University, Phathum, Thani, Thailand
  MBA, National Institute of Development Administration, Bangkok, Thailand
  Dissertation:
  Virtual World Commerce Adoption (VWCA): A Case Study of Second Life Investigating the Impacts of Perceived Affordances, Trust, and Need Satisfaction
  Advisor:
  George Widmeyer, PhD
Maria M. Plummer
BS Computer Science and Mathematics, University of the West Indies, Bridgetown, Barbados
MS Computer Science, University of Waikato, Hamilton, New Zealand
Dissertation:
Job Seeking and Job Application in Social Networking Sites: Predicting Job Seekers’ Behavioral Intentions
Advisor:
Starr Roxanne Hiltz, PhD

† Faina R. Privman
BS Computer and Information Science, University of Pittsburgh, Pennsylvania
MS Computer and Information Science, Brooklyn College, New York
Dissertation:
In-Group /Out-Group Dynamics and Effectiveness in Partially Distributed Teams
Advisor:
Starr Roxanne Hiltz, PhD

Connie Marie White
BS General Studies, Southeastern Louisiana University, Louisiana
MS Teaching Mathematics, Loyola University, New Orleans, Louisiana
Dissertation:
A Dynamic Delphi System to Support Decision Making by Large Groups of Crisis Management Experts
Advisor:
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Dissertation:
Design, Development and Evaluation of Collario, a Group Support System for Collaborative Scenario Creation
Advisor:
Murray Turoff, PhD
MATERIALS SCIENCE AND ENGINEERING

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BS Chemical Engineering, University of Santo Thomas, Manila, Philippines  
MS Chemical Engineering, University of the Philippines, Manila, Philippines  
MS Chemical Engineering, Polytechnic University of New York, New York  
Dissertation:  
Novel Micron- and Nano-Scale Energetic Materials for Advanced Gun Propulsion, Their Material Properties, and Their Effects on Ballistic Performance  
Advisors:  
Zafar Iqbal, PhD  
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MS Materials Science and Engineering, New Jersey Institute of Technology, Newark, New Jersey  
Dissertation:  
Formation of Screen Printed Contacts on Multicrystalline Silicon (mc-Si) Solar Cells  
Advisors:  
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Dissertation:  
Synthesis and Characterization of Metal Oxide Semiconductors for Photoelectrochemical Hydrogen Production  
Advisor:  
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MATHEMATICAL SCIENCES  
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Dissertation:  
Perturbed Spherical Objects in Acoustic and Fluid Flow Fields  
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  Dissertation:
  * Modeling and Quasi-Monte Carlo Simulation of Risk in Credit Portfolios
  Advisors:
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  William J. Morokoff, PhD

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  MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  Nonlinear Evolution of Annular Layers and Liquid Threads in Electric Fields
  Advisor:
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  MS Applied Mathematics, New Jersey Institute of Technology, Newark, New Jersey
  Dissertation:
  Reduced Order Models for Fluid-Structure Interaction Systems by Mixed Finite Element Formulation
  Advisor:
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MECHANICAL ENGINEERING

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  MS Mechanical Engineering, New Jersey Institute of Technology, Newark, New Jersey
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  Constitutive Modeling of Glassy Shape Memory Polymers
  Advisor:
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  Dissertation:
  Electrophysiological Manipulation of Multiphase Fluids
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  Pushpendra Singh, PhD
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Dissertation:  
*Motion Coordination and Control in the Development of a Gait Rehabilitation System*  
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*Optimal Synthesis of Planar Adjustable Mechanisms*  
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Dissertation:  
*Transport Mechanisms and Modeling of Riser Reactor*  
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**TRANSPORTATION**

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Dissertation:  
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Determinants of Risky Sexual Behaviors of Kenyan Immigrant Men in the U.S. and During Visits in Kenya
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Safe Haven Infant Protection: Incidence of Use and Characteristics of Surrendered Infants and Relinquishing Users
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Experiences of Pregnancy, Childbirth and Post-Partum Period in Urban and Suburban Immigrant Pakistani Women
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Accessibility in Metropolitan Transportation Planning: Visualizing a GIS-Based Measure for Collaborative Planning
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Dynamics of School Playground Use in Low-Income Neighborhoods: Four Case Studies from Newark, New Jersey
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Maurie Cohen, PhD

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Noxious Odors in Residential Environments: Coping in Reactive and Proactive Ways in Three New Jersey Communities
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Babak Badri
Chen-Lun Chiu
Grafton Zephaniah Cupid
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### NEW JERSEY SCHOOL OF ARCHITECTURE

### MASTER OF ARCHITECTURE

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<td>Charmee Hiteshkumar Donga</td>
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<td>* Mirza Kamran Hasan</td>
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<td>* Deborah Kane</td>
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### MASTER IN INFRASTRUCTURE PLANNING

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<td>* Joseph A. DiNapoli III</td>
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COLLEGE OF SCIENCE AND LIBERAL ARTS

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* Syed Muzamil Naqshbandi
† Denis Tambelah Nhinda
* Gautam Nyayapathi
Alexander Onik
Melanie Jasmine Paes
Niraj Dhirend Parekh
* Birva Hasmukhshai Patel
Kaival Haribhai Patel
* Monilraj Mohanbhai Patel
Rutvij Kirankumar Patel
† Pallav Patil
Mansi Ambadas Pedgaonkar
* Rimmel H. Pereira
* Vineet Shailesh Phillips
Lavanya Polepalli
Clarence S. Pratt
* Ping Qiu
* Ashish Rajbar
* Abraham D. Rosales
* Alan Howard Rothschild
Nikhil Royal
* Abhilasa Sarma
* Ankur Ashwani Saxena
Akash S. Shah
* Hetal Shah
Madhav Harkishan Shah
Nirav Jitendra Shah
Parth M. Shah
* Saurin Kaushik Shah
† Sandesh Anil Shaha

† Rajdev Sharma
* Jwalant M. Shastri
Sandeep Ramratan Singh
Aditya Sirpal
Milan N. Sutaria
* Sudhir Talasila
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* Vipul Sharadrao Uplenchwar
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* Prabakaran Velu
Nishant Kuttan Veluthedath
Kamaljit Singh Virk
* Salman Saleem Virk
* Jigar Vora
Tzu-Ming Wang
Wei Wang
Yiyi Wu
† Nianmian Yang
Qiji Yao
† Yang Zhang
Zhang Zhao
† Wei Zhou

EMERGENCY MANAGEMENT
AND BUSINESS CONTINUITY
Andrew Chambers
Bernard Anthony Jones

INFORMATION SYSTEMS
† Elouafi Abdelhak
† Bukola Akinfaderin
† Ahmed A. Amin
* Mark Joseph Arevalo
* Purti Bajaj
† Sandeep Kaur Bal
† Shan S. Bala

† Devan Batra
* Shelly Batra
Bindu Bharadwaj
* Rahul Bhat
† Edward J. Biebel
* Gregory P. Camaratta
Tysha Carmen
Dev Cham
† Eugene Cho
* Nitika Choudhary
Ryszard Chrobak
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† Joelisio DosAnjos
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**INTERDISCIPLINARY PROGRAM**

**MASTER OF SCIENCE**

**MATERIALS SCIENCE AND ENGINEERING**

- Qianqian Guan

- Chao Li
- Shangshang Mu

- * Wei Wang
# CANDIDATES FOR BACCALAUREATE DEGREES

## NEWARK COLLEGE OF ENGINEERING

### BACHELOR OF SCIENCE

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† — August 2009 graduates
* — January 2010 graduates
Elijah Amarh  
Newark  
Ashishkumar Manilal Amin  
Jersey City  
Rasheid N. Aref  
Paterson  
Carlo Badiola  
Union  
Pablo Botero  
Parsippany  
Maksim A. Burakhovich  
Staten Island, NY  
Fabian Castelblanco  
South Plainfield  
Shankha B. Chaudhuri  
Paramus  
Mara F. Crespo  
Carteret  
Vinh Q. Dang  
Roselle  
Chetna Deepi Engineer  
Jackson  
Antoni Gerges  
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Mina M. Hanna  
Bayonne  
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Bridgewater  
Fangzhou Jin  
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Garfield  
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Toms River  
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Dayton  
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Randy Murillo  
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Sanga Tekou Mutah  
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Passaic  
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Dover  
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Plainfield  
Edwin J. Walker Jr.  
New Brunswick

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Totowa  
Frank C. Armstrong  
Waldwick  
Muhammed S. Assal  
Belleville  
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Jersey City  
* Gary Aubain  
Lakewood  
* Nizamettin Avci  
Rutherford  
Morad Awad  
Clifton  
Fred P. Beaudry III  
South Amboy  
Syed Ali Mohamed Bilgrami  
Galloway  
Jacqueline Sarah Bunner  
Raritan  
John Francis Casella  
Hackettstown  
David James Chew  
Lafayette  
Jean Junior Davilus  
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Hitasha Ramesh Devnani  
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Kati R. DiRaimondo  
Colonia  
Bryan M. Ehnes  
Roselle Park

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  West Windsor
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  Bayonne
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  West New York
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Imran Aziz
  Newark
Eric Azim Bacchus
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Wali Christopher Barker
  Iselin
* Daniel P. Basile
  Freehold
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* Vernon Bentz
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<tr>
<td>Carlos A. Rodriguez</td>
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<tr>
<th>Name</th>
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- Jason D. Pearson  
  Rockaway
- Raul E. Rojas  
  Paterson
- Daniel Vincent Rose  
  Bergenfield
- Nelly H. Santoso  
  Sewaren
- Kelly Kathleen Sharpe  
  Old Bridge
- Isaac Sim  
  Ridgefield Park
- David A. Smith II  
  Boonton
- Mohamad Neal Marvin Sugirin  
  Old Bridge
- Nicholas A. Velez  
  Metuchen
- Georgios N. Zavolas  
  Elizabethtown

### HUMAN COMPUTER INTERACTION
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- Kevin C. McMorrow  
  Norwood
- Luis Suarez  
  Perth Amboy

### INFORMATION SYSTEMS
- Anthony Jason Alicea  
  Bayonne
- Sokol Bedeni  
  Clifton
- Ravi Chaudhary  
  Newark
- Hicham Dayja  
  Jersey City
- Shadi Shafik Eltoukhy  
  Farmingdale
Devon Carl Facey  
South Orange

James A. Grate  
Westfield

† Antonio Gutierrez  
Jersey City

† Anastasiya Krikun  
Edison

Kimberly L. Mark  
North Plainfield

Jason X. Meier  
Piscataway

Rohan Nigam  
Edison

† Fiorella N. Pezantes  
Perth Amboy

Damian Anthony Scott  
Newark

INFORMATION TECHNOLOGY

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South Amboy

Sharath S. Abraham  
Bogota

Edberth John Aguila  
Clifton

† Jacob Agyemang  
Newark

* Michael Alfredo  
Colonia

Tyler A. Auten  
Montville

† Drew Bakke  
Randolph

Maurice V. Best  
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Kevan M. Bhatt  
Belleville

† Jonathan R. Bondoc  
Jersey City

† Daniel J. Camarote  
Matawan

* Jean C. Castro  
West Orange

† Aaron Bolante Cervas  
Belleville

Chuan-Wei Chang  
Bridgewater

† Kok Jian Cheah  
East Brunswick

Abraham Cho  
Englewood Cliffs

Christopher William Connelly  
Lake Hiawatha

* Christopher J. Conover II  
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* Jeremy Adam Damstrom  
Maywood

* Jasmeen Dhanoa  
Lodi

* Brian Phillip Diefenbach  
Cranbury

* Keith M. Eppihimer  
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Jose L. Espinoza  
Union City

Erica Anne Feldman  
Hillborough

Filipe M. Ferreira  
Union

Bryce D. Florek  
Hopatcong

* Brian Alexander Forgotson  
Clifton

Lilia Ibet Garay  
Paterson

Jaymin Piyush Goswami  
Jersey City

Sameer Govil  
Marlboro

Erica L. Gugliemella  
Edison

* Keith F. Guirao  
Etna Park

Glenn D. Hanlon  
Hopatcong

* Hansika Hegde  
Old Bridge

Karthikeyan A. Hegde  
Old Bridge

* Steve A. Hogarth  
Neptune

David Charles Holl  
Old Bridge

* Jason M. Iannelli  
Washington Twp

Bilal Khan  
Pompton Lakes

Marjan Hamid Khan  
Nutley

† Charles D. Kim  
Edison

* Adriaan Klaassen  
Hoboken

* Sandra E. Lafayette  
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Christopher E. Lee  
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Hector Lopez-Silvero  
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Ryan Griffith Noon  
Wyckoff

† Jose Luis Ortiz Jr.  
Irvington

Sahar Osman  
Parlin

† Michael Leonard Palumbo  
Ridgefield
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**BACHELOR OF ARTS**

**COMPUTER SCIENCE**  
(Degree conferred jointly by NJIT and Rutgers-Newark)

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  Tuckerton  
- Ahmad F. Fahmy  
  Clifton  
- Imsuk Kim  
  Fort Lee  
- Hyacinthe Nkurunziza  
  Paterson  
- * Bharat Sheladia  
  Iselin  
- * Renon W. Stewart  
  Clifton  
- Peter M. Bernd  
  Swedesboro  
- Dongho Choi  
  Princeton  
- Francis Antredu Codjoe  
  North Brunswick  
- * John M. Guirguis  
  Dayton  
- Sherry Denise Hampton  
  Newark  
- Matthew T. Luminoso  
  Union Beach  
- Felix Alberto Montanez  
  Bayonne  
- Joaquin Montoya  
  Little Falls

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(Degree conferred jointly by NJIT and Rutgers-Newark)

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  Princeton  
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  North Brunswick  
- * John M. Guirguis  
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  Union Beach  
- Felix Alberto Montanez  
  Bayonne  
- Joaquin Montoya  
  Little Falls

**Romel W. Montoya**  
Belleville  
- Peter Busayo Oderanti  
  Vauxhall  
- Shyam P. Oza  
  Bergenfield  
- Brian D. Piccoli  
  Lincoln Park  
- Tafari D. Walker  
  Kenilworth
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**HONORS DESIGNATION**

*Honors Scholar — graduate of the Albert Dorman Honors College*
HONORS DESIGNATIONS

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HONORS DESIGNATIONS

The following designations are based upon cumulative grade point averages achieved prior to the spring semester:
- **summa cum laude** — with highest praise, grade point average 3.85 - 4.00
- **magna cum laude** — with great praise, grade point average 3.65 - 3.84
- **cum laude** — with praise, grade point average 3.40 - 3.64
UNITED STATES AIR FORCE RESERVE CANDIDATE FOR COMMISSION

Andrew Patrick Roche

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Daniel Ambrose
Piero Armenante
Michael A. Baltrush
Basil Baltzis
Robert Barat
Golgen Bengu
Michael Bieber
Athanassios Bladikas
Marybeth Boger
Isabel Bracero
Sylvana Brito
Bruce Bukiet
Mark Bullock
James M. Calvin
Rong Chen
Nancy W. Coppola
Roy H. Cornely
Eugene Deess
Richard W. Egan
Rose Federici
Alexandra Fileus
Anthony Fiory
Elaine Frazier
Richard Garber
Sol Glastein
Jorge Golowasch
Rolanne Henry
C.T. Thomas Hsu
Walid Hubbi
William Hunter
Dawn Klimovich
Burt Kimmelman
Talina Knox
Lou Kondic
Walter Konon
Kim Kramer
Frederick A. Little
Neil Maher
Mohamed Mahgoub
Albert Martinez
Robert Moran
Priscilla Nelson
Charles Nieves
George W. Olsen
Bryan J. Pfister
Laramie Potts
Paul Ranky
Lynn Riker
Karen Roach
Daniel Saland
Julian Scher
Anthony W. Schuman
John Schuring
Laurent Simon
Cheickna Sylla
Gordon A. Thomas
Leroy Thomas
William C. Van Buskirk
Zhi Wei
Gerald Whitman
John Wiggins
Cynthia Wilson

READERS

Janet Bodner
Charles Brooks
John Egan
Norbert Elliot
Carol Johnson
Robert Lynch
Jerome Paris

GONFALON CARRIERS

Newark College of Engineering
Maria Tohafarosh
College of Architecture and Design
Brian Novello
College of Science and Liberal Arts
Bhakti H. Shah
School of Management
Louis Noto
Albert Dorman Honors College
Fatima Elgammal
College of Computing Sciences
Erica Feldman
Alumni
Steven B. Saperstein ’84
President, Alumni Association of NJIT
AWARDS EARNED FOR ACHIEVEMENT IN THE YEAR OF GRADUATION

American Council on Education Network Scholarship for Undergraduate Women
Mariya Tohfarosha
Banerjee Scholarship
Ovril Maddan
Bergmann Scholarship
Ovril Maddan
Alvin Cohan Scholarship
Andrew Tomasello
Construction Roundtable Scholarship
Brian Novak
Dr. Allan R. Cullimore Scholarship
Christopher SanFilippo
Dendrite Scholarship
Kimberly Mark
Frank L. Dimitri Scholarship
Kyrillos Meseha
Dingler Foundation Scholarship
Ikenna Achebe
Norma Eng-Wong Memorial Scholarship
Kati DiRaimondo
EOP Mobil Engineers Scholarship
Ovril Maddan
EOP Panasonic Annual Scholarship
Ikenna Achebe
Ovril Maddan
Exxon-Mobil Scholarship
Mavis Dennis
Dr. Saul K. Fenster Expectional Student Scholarship
Susie Megalla
Dr. Saul K. Fenster Innovation in Design Award
Giancarlo Fricano
Greenberg Farrow Scholarship
Cynthia Montalvan
Solaia Henderson Scholarship
Jesse Jesus
Aneesh Vig
Hess Foundation Merit Award
Edwin Walker
Hopper Scholarship
Joseph Hanna
Gordon S. Kalley Scholarship
Marsha Change
Morton A. Kreitzman Scholarship
Robert J. Hughes
Madame Mau Outstanding Female Engineering Student Endowment Award
Kate Boardman
Lekshmi Pillai
McGowan Family Scholarship
Lekshmi Pillai
Merek E & T Scholarship
Deepika Singh
Newark Bay Scholarship
Ikenna Achebe
Newark College of Engineering Outstanding Senior Award–Biomedical Engineering
Mariya Tohfarosha
Newark College of Engineering Outstanding Senior Award–Civil & Environmental Engineering
Matthew Young
Newark College of Engineering Outstanding Senior Award–Electrical & Computer Engineering
Salman Naqvi
Newark College of Engineering Outstanding Senior Award–Engineering Technology
Vinskey Louissaint
Newark College of Engineering Outstanding Senior Award–Mechanical & Industrial Engineering
Phong Pham
Newark College of Engineering Outstanding Senior Award–Otto H. York Department of Chemical, Biological & Pharmaceutical Engineering
Razmenka Lazoroska
New Jersey Institute of Technology Board of Overseers Scholarship
Mariya Tohfarosha
New Jersey Institute of Technology
Faculty Scholarship
Eric Bacchus
Luis F. Bustamante
Joseph Caiola
Kati DiRaimondo
Erica Feldman
Joseph Hann
Katrina Rachel Hornstein
Jesse Jesus
Kimberly Mark
Susie Megalla
Divya Mirchandani
Zehra Sadiq
Andrew Tomasello
John Umali

New Jersey Institute of Technology
Presidential Scholarship
Katrina Rachel Hornstein
Tanzela Monsoor
Christopher SanFilippo
Mariya Tohafarosh
Avneesh Vig

New Jersey Outstanding Scholars
Recruitment Program Scholarship
Erica Feldman

North Jersey American Institute of Chemical Engineers Award
Paul Dupiano
Randy Murillo
Lekshmi Pillai
Nicholas Persico
Deepika Singh

Omega Chi Epsilon Award–Chemical Engineering
Razmenka Lazoroska
Lekshmi Pillai

Otto H. York Department of Chemical,
Biological & Pharmaceutical Engineering
Deepika Singh

William Paulus Jr. Scholarship
Marsha Chang

Pelos Scholarship
Luis F. Bustamante

Quasi Foundation Scholarship
Ikenna Achebe
Hornae Henry
Avneesh Vig

The Rosen Group Architecture Design Scholarship
Cynthia Montalvan

Rufio Sanchez Scholarship
Marsha Chang

Saporito & Eckelmann Annual Scholarship
Ovri Madan

Schering-Plough Scholarship
Katrina Hornstein

Schoor DePalma & Canger Group Scholarship
Kati DiRaimondo

Tartaglia Memorial Scholarship
Joseph Caiola
IN RECOGNITION OF THE CLASS OF 2010

Proud parents, family and friends have recognized the accomplishments of individual members of the Class of 2010. Gifts, in their honor, have been made to the university to provide support for future generations of graduates.

<table>
<thead>
<tr>
<th>In honor of my son</th>
<th>In honor of my daughter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osagie Basil Agboh</td>
<td>Dickery Diaz</td>
</tr>
<tr>
<td>Magdalene Agboh</td>
<td>Dinery DeHart</td>
</tr>
<tr>
<td>In honor of my son</td>
<td>In honor of our son</td>
</tr>
<tr>
<td>Oluwashina K. Alohan</td>
<td>Andrew Robert Feeney</td>
</tr>
<tr>
<td>Adetutu Abdullah</td>
<td>Cindy &amp; Dan Feeney</td>
</tr>
<tr>
<td>In honor of my husband</td>
<td>In honor of our daughter</td>
</tr>
<tr>
<td>Giovanni Bedoya</td>
<td>Erica Anne Feldman</td>
</tr>
<tr>
<td>Lady G. Nunez</td>
<td>The Feldman Family</td>
</tr>
<tr>
<td>In honor of our son</td>
<td>In honor of my son</td>
</tr>
<tr>
<td>Charles W. Bell</td>
<td>Ross Flores</td>
</tr>
<tr>
<td>The Bell Family</td>
<td>Rosalia Flores</td>
</tr>
<tr>
<td>In honor of our son</td>
<td>In honor of</td>
</tr>
<tr>
<td>Alexander M. Cannara</td>
<td>Vincent J. Gervasoni</td>
</tr>
<tr>
<td>Karmann &amp; Lisa Cannara</td>
<td>Your Family</td>
</tr>
<tr>
<td>In honor of our son</td>
<td>In honor of our daughter</td>
</tr>
<tr>
<td>Alexander John Carlson</td>
<td>Rashi Grewal</td>
</tr>
<tr>
<td>Ron &amp; Terry Carlson</td>
<td>Harjeet &amp; Kalwant Grewal</td>
</tr>
<tr>
<td>In honor of our son</td>
<td>In honor of my wife</td>
</tr>
<tr>
<td>Allen Brian Catbagan</td>
<td>Nirupama Gupta</td>
</tr>
<tr>
<td>Mr. &amp; Mrs. Danny Catbagan</td>
<td>Surendra Kumar</td>
</tr>
<tr>
<td>In honor of our son</td>
<td>In memory of the late</td>
</tr>
<tr>
<td>Kevin Ciszak</td>
<td>Smt. Shantir Devr</td>
</tr>
<tr>
<td>Joanne Ciszak</td>
<td>Surendra Kumar</td>
</tr>
<tr>
<td>In honor of our mom &amp; wife</td>
<td></td>
</tr>
<tr>
<td>Carolyn Cohen</td>
<td></td>
</tr>
<tr>
<td>Hutch, Kelly, Charlie, Matt, Sarah &amp; Joe</td>
<td></td>
</tr>
</tbody>
</table>
In honor of our son
David Charles Holl
Mr. & Mrs. Kevin Charles Holl

In honor of our son
Philip Lopes
Isabel, Tony, & Mike Lopes

In honor of my son
Jaime W. López
Elsa Lubina López

In honor of our son
Christopher P. Macrae
Mom, Dad & Cori

In honor of our daughter
Aimee Mariano
The Family of Aimee Mariano

In honor of our son
Eric Nersesian
Marie & Roy Nersesian

In honor of my husband
Ivan Padrón
Elisandra Padrón

In honor of our cousin
Rafael I. Paredes
Mauricio, Luisa, Samuel & Sofia Paredes

In honor of our son
Jamieson Robert Simms
Mom & Doug

In honor of our son
John P. Zawisa
George & Adele Zawisa

In honor of our son
Adrian Zielinski
Grazyna & Wieslaw Zielinski
IN RECOGNITION OF FAMILY AND FRIENDS

Members of the Class of 2010 have recognized the extraordinary people whose support has helped them throughout their academic career. Gifts in their honor have been made to the university to assist future students.

In honor of my mom
Magdalene Agboh
Osagie Basil Agboh

In honor of my mom, grandfather & sister
Carmen Huancaya, Jose Huancaya, Zayda Balcazar
Renzo E. Balcazar

In honor of my dad & mom
Shivashanker & Bhanumati Bhatt
Parashar Bhatt

In memory of mom
The late Ruth Marucha
Kevin A. Nyamangorora

In honor of my husband
Harvey Cohen
Carolyn Cohen

In honor of my mom
Marie Moore
Dimith Guillaume

In honor of my dad
Letroy Medois
Roly Medois

In honor of my wife
Elisandra Padrón
Ivan Padrón

In honor of my mom & dad
Elvira & Roberto Ramirez
Jose Carlos Ramirez

In honor of my mother & father
Herman L. Richardson & Linda B. Richardson
Daniel H. Richardson

In honor of my father
Muhammad Mushtaq Malik
Ikhlqa A. Malik

In honor of my mom, dad & brother
Janet, Michael & Casey McCarthy
Kyle J. McCarthy

In honor of my mom
Dingzhen Feng
Xiaoying Wu
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BD

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Henry J. Ross, PhD  
Chief of Staff, Office of the President

Holly Stern, JD  
General Counsel
The New Jersey Institute of Technology that we know today has a rich history with its beginnings developing from the industrial age. Like many of the port cities around the world, the Newark of the late 19th century was a thriving industrial center. Its factories churned out thread, metals, paints and leather goods. In Newark, Thomas Edison set the stage at his Ward Street factory for his later astounding achievements, and Edison rival Edward Weston established the first factory in the United States for commercial production of dynamo electric machines.

On March 24, 1880, the Essex County Assemblyman in the state legislature introduced “An Act to Provide for the Establishment of Schools of Industrial Education.” The Newark Board of Trade sponsored the bill. The Act established three schools of industrial education: one in Newark, one in Trenton, and one in Hoboken. The first Board of Trustees met on July 1, 1884. The Newark Technical School opened on Monday, February 9, 1885 with 88 students who attended despite a terrible snowstorm.

The first class, mostly evening students, attended classes in a rented building at 21 West Park Street. Soon the facility became inadequate to house an expanding student body. To meet the needs of the growing school, a second fund-raiser—the institution’s first capital campaign—was launched to support the construction of a dedicated building for Newark Technical School. In 1886, under the leadership of the school’s dynamic first director, Dr. Charles A. Colton, the cornerstone was laid at the intersection of High Street and Summit Place for the three-story building later to be named Weston Hall in honor of the institution’s early benefactor. A laboratory building, later to be called Colton Hall, was added to the campus in 1913. Daniel Hodgdon served as the director of Newark Technical School from 1918 to 1920.

Under Dr. Allan R. Cullimore, who led the institution from 1920 to 1949, the modest Newark Technical School was transformed into the robust Newark College of Engineering. Campbell Hall was erected in 1925. During the lean years of the Depression and World War II, only the former Newark Orphan Asylum, now Eberhardt Hall, was purchased and renovated by the college.

The post-war period was one of enormous activity during which President Cullimore—like today’s post-Cold War university presidents—challenged the college to turn “war-time thinking into peace-time thinking.” In 1946, about 75 percent of the freshman class had served in the armed forces. Robert W. Van Houten was acting president of NJIT from 1947 until 1950 when the board of trustees named him president. Cullimore Hall was built in 1958 and two years later the old Weston Hall was razed and replaced with the current seven-story structure. Doctoral level programs were introduced and six years later, in 1966, an 18-acre, four-building expansion was completed. William Hazell succeeded Dr. Van Houten as president of NJIT in 1970.

In 1973, with the addition of the New Jersey School of Architecture, the institution had evolved into a technological university, emphasizing a broad range of graduate and undergraduate degrees and dedication to significant research and public service. A stronger-than-ever Newark College of Engineering remained intact, but a new university name—New Jersey Institute of Technology—signified the institution’s expanded mission.

A broadened mission called for the creation of a residential campus and the opening of NJIT’s first dormitory, Redwood Hall, in 1979 began a period of steady growth that continues today. Under the leadership of Saul K. Fenster, who served as president of NJIT from 1978 to 2002, two new schools were established at the university during the 1980s, the College of Science and Liberal Arts in 1982 and the School of Management in 1988. The Albert Dorman
Honors College was established in 1994, and the College of Computing Sciences was created in 2001. In 2008, New Jersey School of Architecture was reconstituted as the College of Architecture and Design.

Today, with its four-pronged mission of education, research, service and economic development, the university plays a critical role in shaping New Jersey’s future. As a major public technological university, NJIT is an important conduit through which technology flows into society.

University researchers seek new knowledge to improve processes and products for industry. Through public and private partnerships and economic development efforts, the university helps to grow new business ventures that fuel the economy. NJIT’s research program is among the fastest-growing in the nation and ranks among the top ten technological universities in the nation for research expenditures.

The university’s extensive community outreach and economic development programs include the Enterprise Development Center (EDC), New Jersey’s first and largest small-business incubator—one of the top 25 in the nation—focusing on high-technology companies and minority-owned businesses.

NJIT has been designated a Center of Academic Excellence in Information Assurance Education by the National Security Agency.

As the state’s Homeland Security Technology Systems Center, NJIT serves as a consultant for technology evaluation and develops prototypes of integrated homeland security systems for testing, demonstration and training. The Center focuses on areas already identified by the federal government as vital to national security: intelligence and warning, border and transportation security, protecting critical infrastructure and key assets, emergency preparedness and response, and defending against catastrophic threats and domestic counter-terrorism.

NJIT’s educational programs prepare students to be leaders in the technology-dependent economy of the 21st century. Our educational programs grow out of a century-long tradition of academic excellence, and our student body is one of the most diverse in the United States. Ninety-eight percent of NJIT’s full-time faculty hold the terminal degree for their field. The university’s faculty:student ratio is 1:13.

NJIT is ranked in the nation’s top tier of national research universities, according to the U.S. News and World Report’s 2009 Annual Guide to America’s Best Colleges. U.S. News also named NJIT the nation’s seventh most diverse institution of higher education and 19th in the nation among the most popular national universities based on yield rate. According to Forbes.com, NJIT ranks among the nation’s 25 “most connected” campuses. The Princeton Review named NJIT among the nation’s top 25 campuses for technology and as one of the nation’s most environmentally responsible campuses. In a study by Academic Analytics, NJIT was tenth among research universities specializing in science, technology, engineering and math based on faculty scholarly productivity. In addition, Diverse Issues in Higher Education ranks NJIT among the nation’s leading schools for graduating minority engineering and computer science students.

NJIT’s goal for the next decade is to be recognized as a top-ranked public research university, as a national leader in the education of underrepresented groups for the technological professions, and as a catalyst for a healthy New Jersey economy.
The pageantry and tradition of college and university commencement ceremonies originated more than 800 years ago in medieval universities of Europe.

These early universities were bodies or guilds of students who took their name from the Latin word universitas, meaning a number of persons associated into one guild or community. These guilds were dedicated to the mastery of the arts and sciences. The master’s or doctoral degree denoted full membership in the guild and admitted the recipient to the practice of teaching. The bachelor’s degree, on the other hand, originally indicated only that the recipient had entered a course of study leading to the doctorate or master’s. Later, the baccalaureate came to signify the completion of one level of study preparatory to higher degrees.

The term “commencement,” which means beginning, originally referred to the occasion on which the student received the master’s degree and “commenced” his career. Today, however, all levels of degrees are conferred at commencement.

Academic caps, gowns and hoods developed gradually from the long flowing robes that the teachers wore to protect themselves from the cold of the medieval buildings. As the scholars of the time were usually clerics, their robes differed little from those used by the church orders. Slowly, certain styles were designated for the universities, and these, with minor modifications, are the costumes worn today. Hoods were originally fashioned after the monk’s cowl. The cap, with its tassels, evolved from the skull caps of the scholar-monks. In France, where the degree system probably began, wearing the cap and gown marked the formal admission of the student to the body of masters.

Today, academic regalia is standardized by the American Intercollegiate Code.

In the United States it is traditional for academicians to wear the gown and hood of the university where they received their highest degree.

The gowns of bachelor’s and master’s degree candidates are usually without trimmings, whereas those for the doctoral degree are faced down the front with velvet and adorned with three velvet bars on the sleeves. The hood, a triangular fold of cloth worn over the back of the gown, is faced with colors which signify the field of study in which the degree is earned. The colors of the lining are those of the college or university which granted the degrees. The length of the hood increases with each higher degree.

The cap may be the stiff-crown style (mortarboard), or the soft tam. The tassel for bachelor’s and master’s is black or color appropriate to the major; those of doctor’s are black or golden. The tassel is worn on the left side by those who have received a degree.

These colorful traditions culminate today in the academic procession and the commencement ceremony itself. They carry with them the splendor and majesty that is properly associated with such a happy and important occasion and help remind us of the long tradition of higher education.

**THE MACE**

The mace, used today as a symbol of authority, also dates back to medieval times when it was used for an offensive weapon. Made wholly or partly of metal, and often spiked, it was used especially for breaking armor.

In time, it became a staff borne by, carried before, or placed near a magistrate or other dignitary as an ensign of his authority.

The university’s mace is carried in the academic procession, immediately preceding the undergraduate degree candidates. Presented as a class gift in the early 1950’s, it is thirty inches in length and is marked at the head by the Bronze Seal of the university.
THE PRESIDENTIAL MEDALLION

The use of medallions or large medals, as symbols of office and authority, is also a tradition stemming from medieval times.

The presidential medallion of the university is struck in silver and bears the official university Seal. It is worn about the neck by the president of the university on ceremonial occasions.

The medallion was presented to the university in 1968 by the Alumni Association.

THE GONFALONS

Gonfalons, the insignia or symbols first used by princes or states in medieval Italy, have in recent times become widely used by colleges of major universities. The 1987 commencement ceremony marked their first processional use by New Jersey Institute of Technology. Each of the NJIT colleges is identified by its own symbol and by the year of its establishment.

Newark College of Engineering has as its ensign a chess rook, an ancient symbol associated with engineering and problem-solving as well as an early device in heraldry. It is shown on a field of academic orange with the year 1919, as the date when degrees were first authorized for the college.

College of Architecture & Design carries as its symbol a representational column head, the classic denotation of the discipline which is used throughout the college. It is shown on a field of blue violet, the academic color, and bears the year designation of 1973.

College of Science and Liberal Arts is identified by a lamp, another medieval symbol, commonly seen as a source of intellectual, moral and spiritual illumination. The white and gold of the banner encompasses both arts and letters and theoretic and applied aspects of science. The college was organized as a degree-granting entity in 1982.

The American eagle in flight is the pictorial representation of the School of Management, symbolizing vision, control and integrity. Often depicted on coinage and currency, the eagle enjoys a historical tie to business and management and is shown against light brown, the academic color of its discipline.

The Albert Dorman Honors College, represented by a scroll, was established in 1994. The college aims to inspire and prepare NJIT Honors Scholars to succeed through the highest standards of personal and academic achievement.

The College of Computing Sciences is represented as a circle of five segments symbolizing computing as an academic discipline that connects and enriches all disciplines. The light blue background signifies computing as a distinct discipline in its own right, while the colors in the circle represent the other academic disciplines.
To Alma Mater fair and great,
our voices now we raise.
Our gratitude we demonstrate,
your steady voice we praise.
Your challenge on us never fails,
a world of knowledge calls.
In heart and mind,
our trust we’ll bind
to our NJIT.
We’ll hold your memory ever dear,
your spirit we’ll revere.
To you we’ll promise loyalty,
our own NJIT.