RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY





Order of Exercises

PROCESSIONAL

Rutgers Wind Ensemble Professor Kraig A. Williams, Conductor

BOARD OF GOVERNORS' WELCOME

Dr. Ralph Izzo Chair of the Board

NATIONAL ANTHEM

Rutgers University Glee Club Dr. Patrick G. Gardner, Conductor

PRESIDENT'S GREETING

Dr. Richard L. McCormick President

SCHOOL OF ARTS AND SCIENCES CONVOCATION

Dr. Douglas Greenberg Executive Dean

DOUGLASS RESIDENTIAL COLLEGE GREETING

Dr. Jacquelyn Litt Dean

FACULTY HONORS

Dr. Richard L. Edwards Interim Executive Vice President for Academic Affairs

CONFERRING OF HONORARY DEGREES

Dr. Richard L. McCormick President

COMMENCEMENT ADDRESS

Mr. Greg Brown Chairman and Chief Executive Officer, Motorola Solutions

An American Sign Language interpreter will be displayed on the Jumbotron.

Please turn off all cell phones and noise-producing electronic devices during the ceremony.



Order of Exercises continued

"THE BELLS MUST RING" by Richard Hadden

Rutgers University Glee Club Dr. Patrick G. Gardner, Conductor

GIFT FROM THE CLASS OF 2012

Ms. Nicole L. Bosco Class of 2012, School of Arts and Sciences Secretary of the Student Philanthropy Board

ALUMNI WELCOME

Ms. Christine Tiritilli Chair of the Rutgers University Alumni Association Board

ALUMNI ADDRESS

Mr. Mario Batali Acclaimed Chef and Author Rutgers College Class of 1982

ACKNOWLEDGEMENT OF MEMBERS OF THE CLASS OF 1962

Ms. Christine Tiritilli Chair of the Rutgers University Alumni Association Board

ALMA MATER

Rutgers University Glee Club Dr. Patrick G. Gardner, Conductor

CONFERRING OF DEGREES

Dr. Richard L. McCormick *President*

RECESSIONAL

Rutgers Wind Ensemble Professor Kraig A. Williams, Conductor

Commencement Speaker and Honorary Degree Recipient



GREG BROWN

Doctor of Humane Letters

A native son and chairman and chief executive officer of Motorola Solutions, Greg Brown is a visionary business leader respected for his keen management insight, analytical ability, and pragmatism, all of which have contributed to his career accomplishments and the success of his employers. He earned the top job at Motorola in 2008 and 90 days into his tenure he launched a bold plan to transform the \$30 billion company, which ultimately led to the separation of the consumer-focused mobile device business from the parent company in 2011. Today, the remaining company, Motorola Solutions, is a global leader in mission critical public safety and enterprise communications equipment. His business acumen was recognized in 2011, when Brown was appointed by President Barack Obama to serve on the President's Management Advisory Board and the Skills for America's Future Board, where he now dedicates his talents in service to the country.

Brown's story began in North Brunswick and Highland Park, New Jersey, where he was raised. The youngest of five children, he considered himself "average" while growing up, and gained an interest in technology after seeing his older brothers take jobs at AT&T and IBM. When it came time for college, he enrolled in Rutgers' Livingston College and graduated in 1982 with a bachelor's degree in economics. Brown often says that it is not what happens to you in life, but rather how you handle it that matters. He began to form that approach at Rutgers after taking a class with Robert Guttmann, an economics professor whom he greatly admired and found to be an inspiration. By sophomore year, Brown was interning at IBM. After graduation and over the next 20-plus years, Brown went on to hold a number of tech-related sales and executive management positions where he helped bolster growth and profitability in part by remembering that the manner in which he responded to challenges mattered most.

Brown truly demonstrated his ability to rise to these challenges when in 2003, he joined Motorola as president of the division that handles government and public-safety communications solutions. After leading the company's \$3.9 billion acquisition of tech firm Symbol Technologies, he was elected to the board of directors in 2007 and named chief executive officer the following year. He kept the multibillion dollar company afloat when it faced some of its toughest times and successfully pulled it through a drastic overhaul of its business. This, coupled with his inspirational and hands-on management style, was instrumental in improving the morale of 60,000 employees worldwide.

Prior to joining Motorola, he was chairman and chief executive officer of Micromuse Inc., a publicly traded network-management software company. Before that, he served as president of Ameritech Custom Business Services and Ameritech New Media Inc., and held a variety of sales and marketing positions with AT&T. In addition to his responsibilities at Motorola, Brown is active in a variety of civic and business organizations. He is on the executive committee of the U.S.-China Business Council and serves as a member of the Business Council, the Business

Roundtable, and the Technology CEO Council. A resident of Illinois, he serves in his local community as a member of the Civic Committee of the Commercial Club of Chicago, as vice chair of the Executives' Club of Chicago, and on the board of directors of both Northwestern Memorial Hospital and World Business Chicago, and also has helped recruit corporations to the city.

Under Brown's leadership, Motorola Solutions has continued to devote significant resources to support the communities where it operates. In particular, the Motorola Solutions Foundation focuses its funding on public safety, disaster relief, employee programs, and education, especially in the fields of science, technology, engineering, and math programming. Brown is an active supporter of cancer research, serving as a member of the American Cancer Society Discovery Ball Board of Ambassadors since 2008 and as a vice chair of the Illinois Chapter of CEOs Against Cancer.

Brown also is a proud supporter of Rutgers University. He contributed funds toward the new recruiting pavilion and welcome center at High Point Solutions Stadium, and supports the Rutgers Psychological Clinic at the Graduate School of Applied and Professional Psychology. He is a member of both Rutgers University's Board of Trustees and Rutgers' Board of Overseers. He served as co-master of ceremonies at the kickoff dinner for the university's ongoing, \$1 billion Our Rutgers, Our Future capital campaign and recently served as chair of Rutgers' presidential search committee. In 2010, he was inducted into Rutgers' Hall of Distinguished Alumni. As an alumnus, he said, "I'm fiercely proud of Rutgers. It's a wonderful university with so many positive attributes: tradition, pride, quality, diversity, and opportunity. But what makes Rutgers so special is the people."

Rutgers University takes great pride in honoring one of its most loyal and distinguished alumni and in welcoming Greg Brown as the 2012 University Commencement speaker.

Recipients of Honorary Degrees



MARTINA ARROYO
Doctor of Fine Arts

American soprano Martina Arroyo is renowned for her operatic roles, oratorio and recital performances, recordings, teaching, and commitment to the development of emerging opera singers. She has performed on the stages of the world's most prestigious opera houses and is famous for her interpretations of Verdi, Puccini, Strauss, and Mozart heroines. The breadth of her work is reflected in her more than 50 recordings of major operas and orchestral works under conductors such as Leonard Bernstein, James Levine, Zubin Mehta, Karl Boehm, and Ricardo Muti.

Born in New York City and raised in the bustling multicultural neighborhood of Harlem, Arroyo was fortunate that her parents nurtured her interest in singing while also urging her to seek an education for a more stable career. She graduated from Hunter College with a B.A. at the age of 19. While she continued her singing studies, she taught Italian in New York City public schools and was a case worker for the welfare department. In 1958, she won the Metropolitan Opera Auditions of the Air and debuted at Carnegie Hall. She sang minor roles at the Metropolitan Opera before journeying to Europe, where she received critical and popular acclaim. Arroyo, who has an African-American mother and a Puerto Rican father, broke down racial barriers as a member of the first generation of black opera singers to achieve international success. By 1965, she returned to the United States and received a standing ovation for her Aida at the Met. She was the featured performer in the opening Metropolitan Opera productions three times, and her interpretations of leading soprano roles made her a house favorite.

Arroyo is a dominant force in the international opera world, and she became one of opera's most effective public ambassadors, gaining a reputation as "the wittiest woman in opera." She was a favorite of *Tonight Show* host Johnny Carson and a frequent guest on Metropolitan Opera Saturday broadcasts. She has been honored for her achievements, serving on the National Council on the Arts and the board of trustees for Carnegie Hall, and being inducted as a Fellow into the American Academy of Arts and Sciences in 2002. She is a frequent judge, lecturer, and clinician throughout the world. In 2010, she was named a National Endowment for the Arts Opera Honoree.

Throughout her performance career, Arroyo has shown what enormous talent, brilliant technique, and interpretive understanding can accomplish. In 2003, she established the Martina Arroyo Foundation to develop the necessary stagecraft and dramatic skills of talented young artists—including current and former Rutgers students—in the field of opera. Hundreds of singers from around the world audition annually for the foundation's Prelude to Performance. This six-week intensive training program for young singers culminates in four fully staged opera performances complete with sets, costumes, and orchestras in a prominent New York venue. Young singers benefit from performing in this professional-quality production and being reviewed by the major arts writers who attend. Arroyo is passionate about the work of her foundation, and her impact on young singing artists and their professional lives continues her legacy. She is deeply grateful for the support she has had from her parents, her late husband Michel Maurel, and her own teachers. It is her greatest joy that she is able to both honor them and enrich the lives of the young artists of today.



SHIREEN LEWIS

Doctor of Humane Letters

Shireen Lewis was born and raised in a small village in Trinidad and Tobago, where resources were limited. Her parents could only dream of a college education for her. But she had a circumstantial advantage: she was growing up in a newly independent nation governed by a prime minister who had a Ph.D. from Oxford. Lewis recalled, "He talked about educating his people, and he was a role model for many of us." His efforts helped create the conditions under which Lewis could obtain a good education. In turn, she would become a champion of higher education, and a positive life-changing force for many young women.

The flame of learning came to burn bright within Lewis. At age 8, she attended the first school to be established in her village. There, a young teacher profoundly changed her life by encouraging and inspiring her to be wildly successful in school. Lewis applied herself, determined to learn all she could and climb high on the ladder of life. She became a teacher and dean in an all-girls high school in Trinidad and Tobago and, eventually, a student at Rutgers' Douglass College, graduating in 1986. She earned a law degree from the University of Virginia and a doctorate in French from Duke University. She has practiced law, taught at several universities, and made a significant contribution to her field of French and Francophone literature with her book *Race*, *Culture and Identity: Francophone West African Literature and Theory from Négritude to Créolité*.

Lewis found the process of completing her doctoral dissertation to be filled with loneliness and isolation, so much so that it was nearly debilitating. She knew that it was at this point that many promising doctoral candidates—particularly young women of color, such as herself—lost their momentum and gave up on their dream. So, one night in fall 1997, Lewis organized a group of four women in similar circumstances who agreed to support and encourage each other during this difficult process. Soon after, the name SisterMentors was born and, of the first group, every woman eventually earned her doctorate.

SisterMentors is now a program under the umbrella of EduSeed, a Washington, D.C., non-profit organization promoting education among historically disadvantaged and underserved communities. Lewis cofounded EduSeed and serves as executive director. Thus far, SisterMentors has helped 17 young women of color to go to college and 41 women of color to earn Ph.D.'s, the latter of whom have gone on to serve as university professors and leaders of nonprofit organizations. The program also mentors young girls of color ages 9 to 18 by keeping them on a path to attend college.

Lewis was hailed in 2009 by *Ebony* magazine as an "Unsung Hero," making a difference for children, schools, and communities. In 2005, the Associate Alumnae of Douglass College presented her an Alumnae Recognition Award; later that year, she received the Honorable Annice M. Wagner Pioneer Award from the Bar Association of the District of Columbia. A frequent public speaker, she has been featured on television and radio and in publications such as *Ms.* and *Essence*. Her work with SisterMentors has been documented in the book *Visionaries in Our Midst: Ordinary People Who Are Changing Our World*.

Rutgers is delighted to be honoring Lewis in this 15th anniversary year of the founding of her award-winning and empowering program, SisterMentors.

Recipients of Honorary Degrees continued



RICHARD L. MCCORMICK Doctor of Laws

Richard Levis McCormick was born in New Brunswick, New Jersey, and is the son of the late Katheryne Levis McCormick, a longtime Rutgers administrator, and the late Richard P. McCormick RC'38, GSNB'40, a celebrated Rutgers professor and university historian. McCormick, a scholar of American political history with degrees from Amherst College and Yale University, began his academic career in 1976 on the Rutgers faculty in New Brunswick. He later chaired the Department of History and became dean of the Faculty of Arts and Sciences. In 1988, he founded the Rutgers Center for Historical Analysis and was its first director. After serving as provost of the University of North Carolina at Chapel Hill (1992–1995) and president of the University of Washington (1995–2002), McCormick returned to Rutgers as the institution's 19th president on December 1, 2002.

McCormick has led the university through one of its most challenging and successful periods. In 2006, the university implemented his vision to enrich undergraduate learning and student life across the New Brunswick Campus. Enhancements include establishment of the School of Arts and Sciences with its comprehensive new curriculum, first-year seminars, signature courses, additional opportunities for undergraduate research, and honors programs. During his presidency, Rutgers established the School of Public Affairs and Administration in Newark and the School of Nursing in Camden, along with the Camden Campus's first Ph.D. programs, and has expanded its international collaborations, particularly in China. McCormick also built upon the university's research strength by promoting interdisciplinary initiatives in areas such as nutrition, climate change and alternative energy, transportation, materials and devices, nanotechnology, urban entrepreneurship, and childhood studies.

McCormick has led Rutgers at a time of historic accomplishment and visibility—generating pride across the state through a Jersey Roots, Global Reach communications campaign while setting records for applications, enrollment, private donations, and federal support for research. He launched a \$1 billion fundraising campaign titled Our Rutgers, Our Future, which is well over halfway toward its goal and has already raised more than any previous Rutgers campaign. Under his leadership, Rutgers has made investments on all campuses, including buildings for the sciences, law, business, and engineering, residence halls, recreation and student centers, dining halls, a visitor center, an energy-generating solar farm, and soon a major bookstore. His vision for Livingston Campus as a center for professional and business education is well under way.

In 2007, Rutgers implemented McCormick's sweeping plan to strengthen bonds with its 400,000 alumni worldwide, including the first-ever universitywide alumni association. His engagement with New Jersey has been exemplified by initiatives such as Rutgers Day, which showcases the university's academic, cultural, and recreational programs; the Rutgers Against Hunger initiative to address food insecurity in New Jersey; and the Rutgers Future Scholars Program, through which hundreds of disadvantaged teenagers in New Jersey are making important strides toward a tuition-free Rutgers education. His commitment to diversity across the university has included establishment of the Office for the Promotion of Women in Science, Engineering, and Mathematics; expanded support for veterans; and a cluster-hiring initiative.

The Board of Governors is pleased to bestow upon Richard L. McCormick an honorary Doctor of Laws degree in recognition of his many contributions as president and his distinguished service to Rutgers University and the state of New Jersey.

Conferring of Degrees

RUTGERS-CAMDEN

Chancellor Wendell E. Pritchett

School of Law-Camden

Dean Rayman L. Solomon Juris Doctor

Camden College of Arts and Sciences

Dean Kriste Lindenmeyer Bachelor of Arts Bachelor of Science

University College-Camden

Dean Kriste Lindenmeyer Bachelor of Arts

Graduate School-Camden

Dean Kriste Lindenmeyer

Master of Arts

Master of Arts in Liberal Studies

Master of Fine Arts

Master of Science

Master of Public Administration

Master of Public Health

Doctor of Physical Therapy

School of Business-Camden

Dean Jaishankar Ganesh

Bachelor of Science

Bachelor of Hospitality Management

Master of Business Administration

School of Nursing-Camden

Dean Joanne P. Robinson Bachelor of Science

RUTGERS-NEWARK

Interim Chancellor Philip L. Yeagle

School of Law-Newark

Dean John J. Farmer Jr. Juris Doctor

Rutgers Business School-Newark and New Brunswick

Dean Glenn R. Shafer

Bachelor of Science

Master of Accountancy

Master of Accountancy in Taxation

Master of Business Administration

Master of Information Technology

Master of Quantitative Finance

Newark College of Arts and Sciences

Acting Dean Jan Ellen Lewis

Bachelor of Arts

Bachelor of Fine Arts

Bachelor of Science

University College-Newark

Acting Dean Jan Ellen Lewis

Bachelor of Arts

Bachelor of Science

College of Nursing

Dean William L. Holzemer

Bachelor of Science

Master of Science in Nursing

Doctor of Nursing Practice

School of Criminal Justice

Dean Todd R. Clear

Bachelor of Science

Master of Arts

Graduate School-Newark

Dean Gary Roth

Master of Arts

Master of Arts for Teachers

Master of Arts in Liberal Studies

Master of Fine Arts

Master of Science

Doctor of Philosophy

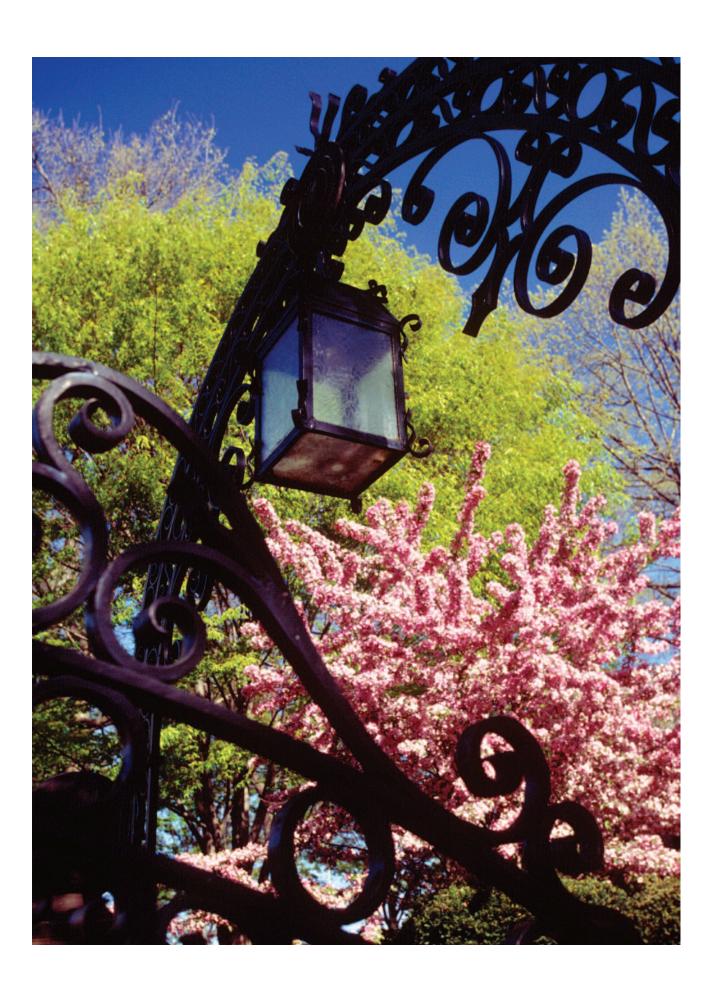
School of Public Affairs and Administration

Dean Marc Holzer

Bachelor of Arts

Master of Public Administration

Master of Public Health



Conferring of Degrees continued

RUTGERS-NEW BRUNSWICK

Interim Executive Vice President Richard L. Edwards

School of Engineering

Dean Thomas N. Farris
Bachelor of Science

School of Environmental and Biological Sciences

Executive Dean Robert M. Goodman Bachelor of Arts Bachelor of Science

Graduate School-New Brunswick

Dean Jerome J. Kukor

Master of Arts
Master of Arts for Teachers
Master of Business and Science
Master of Engineering
Master of Landscape Architecture
Master of Science

Ernest Mario School of Pharmacy

Acting Dean Joseph A. Barone Doctor of Pharmacy

Graduate School of Education

Dean Richard De Lisi Master of Education Doctor of Education

School of Social Work

Acting Dean Kathleen J. Pottick Master of Social Work

Graduate School of Applied and Professional Psychology

Dean Stanley B. Messer Master of Psychology Doctor of Psychology

Mason Gross School of the Arts

Dean George B. Stauffer
Bachelor of Fine Arts
Bachelor of Music
Master of Fine Arts
Master of Music
Doctor of Musical Arts

School of Communication and Information

Dean Jorge Reina Schement
Bachelor of Arts
Master of Communication and Information Studies
Master of Library and Information Science

Edward J. Bloustein School of Planning and Public Policy

Dean James W. Hughes
Bachelor of Arts
Bachelor of Science
Master of City and Regional Planning
Master of City and Regional Studies
Master of Public Affairs and Politics
Master of Public Health
Master of Public Policy
Doctor of Public Health

School of Management and Labor Relations

Acting Dean Susan J. Schurman
Bachelor of Arts
Bachelor of Science
Master of Human Resource Management
Master of Labor and Employment Relations

School of Arts and Sciences

Executive Dean Douglas Greenberg
Bachelor of Arts
Bachelor of Science

At the conclusion of the conferring of degrees, the Rutgers cannon will be fired in celebration.

Selected Faculty Honors

AKINBIYI AKINLABI

Linguistics, School of Arts and Sciences *Ivorian National Medal*



Akinbiyi Akinlabi, professor of linguistics and director of undergraduate studies in the Department of Linguistics, School of Arts and Sciences, was one of 10 people from across the world honored with an Ivorian National Medal

at the University of Cocody, Abidjan, Ivory Coast, in August 2011. Akinlabi was awarded the title and medal of Officier de l'Ordre National de la République de Côte d'Ivoire, Ivory Coast's second-highest national honor, for his achievements in promoting African linguistics. Akinlabi is an international expert in the Benue-Congo languages spoken in West Africa. He is the principal investigator of the National Science Foundation-sponsored Defaka and Nkoroo Language Documentation Project, which "seeks to describe, record, and archive the grammar and traditions of Defaka and Nkoroo, two endangered languages spoken in the Niger delta region of southern Nigeria."

SAMANTHA KELLY

History, School of Arts and Sciences

Andrew W. Mellon New Directions Fellowship



Samantha Kelly, associate professor of history, specializes in later-medieval Italy, with a focus on religion and politics. Her award-winning first book, *The New Solomon: Robert of Anjou* (1309–1343) and Fourteenth-Century Kingship,

explores a monarch who juggled the responsibilities of several Mediterranean territories. Kelly followed up that achievement with the first critical edition of a 14th-century history of Naples known as the *Cronaca di Partenope*. Kelly's new project explores relations between Europe and Ethiopia, a Christian country long out of contact with the Latin West, in the 14th and 15th centuries. The Mellon New Directions Fellowship, intended for humanistic scholars "who seek to acquire systematic training outside their own areas of special interest," will permit her to study Ethiopia's medieval and modern languages as well as anthropological, archaeological, and art-historical approaches to its past, in order to utilize the little-known written sources from medieval Ethiopia.

TAYARI JONES

English and Creative Writing, Faculty of Arts and Sciences–Newark Radcliffe Institute for Advanced Study Fellowship, Harvard University



An associate professor of English and creative writing, Tayari Jones made her mark as an author of distinction with her 2002 debut novel, *Leaving Atlanta*. Her most recent novel, *Silver Sparrow*, was selected as among 2011's

best by Library Journal, O Magazine, Slate, and Salon. Born and raised in Atlanta, much of Jones's writing examines the urban south. "Although I now live in the northeast," she says, "my imagination lives in Atlanta." The Village Voice wrote that she is "fast defining middle-class black Atlanta the way [John] Cheever did Westchester." Only six percent of applicants received the 2011–2012 Radcliffe Institute for Advanced Study Fellowship, which enables award-winning artists, academics, and professionals to devote a year to individual projects. At Radcliffe, Jones will focus on a new novel, Dear History, "in which she explores the collateral damage of mass incarceration."

JACOB S. SOLL

History, Faculty of Arts and Sciences–Camden John D. and Catherine T. MacArthur Foundation Fellowship



Jacob Soll, professor of history and a global expert on the early development of the modern state, was one of 22 Americans selected as 2011 MacArthur Fellows. Popularly known as the "genius grant," the five-year, \$500,000

MacArthur Fellowship recognizes individuals "for their creativity, originality, and potential to make important contributions in the future." Soll's MacArthur Fellowship was a first for Rutgers—Camden. In selecting Soll, the MacArthur Foundation called him "a historian whose meticulously researched studies of early modern Europe are shedding new light on the origins of the modern state." In reviewing Soll's 2009 book on Jean-Baptiste Colbert, Louis XIV's chief minister, the *New Republic* wrote, "The development of state information management might seem a dull subject. Ledgers, account books, and filing systems generally do not make for heroic drama or grand epic. Yet in the hands of Jacob Soll these mundane objects become strangely mesmerizing."

ENDRE SZEMERÉDI

Computer Science and Mathematics, School of Arts and Sciences

Norwegian Academy of Science and Letters Abel Prize Laureate



Endre Szemerédi, State of New Jersey professor of computer science and permanent research fellow at Hungary's Alfréd Rényi Institute of Mathematics, has won the Norwegian Academy of Science and Letters' 2012 Abel Prize,

one of the top honors in the field of mathematics. Often referred to as the "mathematician's Nobel," the Abel Prize comes with a grant of approximately \$1 million. In choosing Szemerédi, the Able committee cited "his fundamental contributions to discrete mathematics and theoretical computer science, and in recognition of the profound and lasting impact of these contributions on additive number theory and ergodic theory. Discrete mathematics is the study of structures such as graphs, sequences, permutations, and geometric configurations. The mathematics of such structures forms the foundation of theoretical computer science and information theory. Szemerédi was one of the first to realize the importance of theoretical computer science." Szemerédi is the recipient of numerous other international awards and is a member of the National Academy of Sciences.

MIKEL ZARATIEGUI-BIURRUN

Molecular Biology and Biochemistry, School of Arts and Sciences Searle Scholar



Mikel Zaratiegui-Biurrun, an assistant professor of biology and biochemistry, has been named a Searle Scholar. The Searle Scholars Program supports "the independent research of exceptional young faculty in the biomed-

ical sciences and chemistry." The grant will further Zaratiegui-Biurrun's investigations of a DNA type traditionally considered to lack meaningful functionality—research with implications for better understanding the genetic underpinnings of cancer. According to Zaratiegui-Biurrun, "the majority of our genome is composed not of genes, but of repetitive sequences traditionally considered 'Junk DNA.' We have recently recognized that, far from being useless filler, these sequences have important roles in the regulation of genome function, and if not properly managed, can result in degradation of the genome, leading to cancer." Zaratiegui-Biurrun's work "reveals how cells recognize repetitive DNA and stabilize it by packaging it as a structure called Heterochromatin."

Selected Faculty Honors continued

FELLOWS OF THE AMERICAN ACADEMY OF ARTS AND SCIENCES

The American Academy of Arts and Sciences is one of the nation's most prestigious honorary societies and a leading center for independent policy research. Since its founding in 1780 by John Adams, James Bowdoin, John Hancock, and other scholar-patriots, the academy has elected leading "thinkers and doers" from each generation, including George Washington and Benjamin Franklin in the 18th century, Daniel Webster and Ralph Waldo Emerson in the 19th, and Albert Einstein and Winston Churchill in the 20th. The current membership includes more than 250 Nobel Laureates and more than 60 Pulitzer Prize winners.

The following Rutgers professors have been elected fellows of the American Academy of Arts and Sciences during the past year.

THOMAS BANKS

Physics and Astronomy, School of Arts and Sciences

GREGORY W. MOORE

Physics and Astronomy, School of Arts and Sciences

FELLOWS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

The American Association for the Advancement of Science (AAAS) is a nonprofit international organization dedicated to advancing "science, engineering, and innovation throughout the world for the benefit of all people." It is the publisher of the peer-reviewed journal *Science*, which has an estimated readership of one million. While membership in the AAAS is open to all, fellows are chosen through a nomination, review, and election process for their meritorious efforts to advance science or its applications.

The following Rutgers professors have been elected fellows of the AAAS during the past year.

ANTHONY BROCCOLI

Environmental Science, School of Environmental and Biological Sciences

BINGRU HUANG

Plant Biology and Pathology, School of Environmental and Biological Sciences

PATRICK SINKO

Pharmaceutics, Ernest Mario School of Pharmacy

FULBRIGHT SCHOLARS

For more than 60 years, the Fulbright Program has served as the U.S. government's flagship international educational exchange program. It was established shortly after the end of World War II in 1946 under legislation sponsored by the then first-term U.S. Senator from Arkansas J. William Fulbright and signed into law by President Harry S. Truman. Today, the program operates in over 155 countries.

The core Fulbright U.S. Scholar Program offers American academics and professionals—chosen for their scholarly merit and leadership potential—the opportunity to teach and/or conduct research abroad in a wide range of fields. Through the active exchange of ideas, the program is committed to addressing shared international concerns and to promoting mutual understanding worldwide. Fulbright Scholars' appointments vary in length but are typically for a semester. The Fulbright Specialist designation offers short-term opportunities for academic collaboration of two to six weeks. The Distinguished Chair category is designed for eminent senior scholars with appointments up to a year.

The following Rutgers professors have received Fulbright grants in 2011–2012.

KATALIN BALOG

Philosophy, Faculty of Arts and Sciences–Newark Fulbright Scholar, Collegium Budapest, Budapest, Hungary

ELSAYED ELSAYED

Industrial and Systems Engineering, School of Engineering Fulbright Scholar, Qatar University, Doha, Qatar

PATRICIA FINDLEY

Social Work, School of Social Work Fulbright Senior Specialist grant, Ben Gurion University, Beer Sheva, Israel

RICHARD HARRIS

Political Science, Faculty of Arts and Sciences–Camden
Fulbright Specialist, St. Catherine's College, Oxford University, United Kingdom

SUNGSOO KIM

Business Administration, School of Business–Camden
Fulbright Distinguished Chair Award, Yonsei University, Seoul, Korea

MARA SIDNEY

Political Science, Faculty of Arts and Sciences-Newark Fulbright Scholar, University of Ottowa, Ottowa, Canada

GAIL TRINER

History, School of Arts and Sciences Fulbright Scholar, Federal University of Fluminense, Niteroi, Brazil

MEREDETH TURSHEN

Planning and Public Policy, Edward J. Bloustein School of Planning and Public Policy Fulbright Scholar, University of Ottowa, Ottawa, Canada

Selected Faculty Honors continued

ADDITIONAL NOTABLE HONORS

Tayfur Altiok, Industrial and Systems Engineering, School of Engineering *Fellow, Institute of Industrial Engineers*

Tewodros Asefa, Chemistry and Chemical Biology, School of Arts and Sciences National Science Foundation Special Creativity Award

Steven Barnet, Educational Theory, Policy, and Administration, Graduate School of Education

Fellow, American Educational Research Association

Philip E. Batson, Materials Science and Engineering, School of Engineering Fellow, Microscopy Society of America

Alok Baveja, Management, School of Business–Camden Warren I. Susman Award for Excellence in Teaching

Mia E. Bay, History, School of Arts and Sciences Sawyer Seminar, Mellon Foundation

Helen Berman, Chemistry and Chemical Biology, School of Arts and Sciences Fellow, American Crystallographic Association Carl Brändén Award, Protein Society

Karen Cerulo, Sociology, School of Arts and Sciences *Faculty Scholar-Teacher Award*

Kornel Chang, History, Faculty of Arts and Sciences-Newark Charles Warren Fellow, Center for Studies in American History, Harvard University

Todd R. Clear, Dean, School of Criminal Justice, Rutgers–Newark Fellow, American Society of Criminology

Ravit Duncan, Learning and Teaching, Graduate School of Education
National Science Foundation Faculty Early Career Development (CAREER) Award

Richard H. Ebright, Chemistry and Chemical Biology, Waksman Institute of Microbiology, School of Arts and Sciences Fellow, Infectious Diseases Society of America

Richard L. Edwards, Interim Executive Vice President for Academic Affairs Chauncey Alexander Lifetime Achievement Award

Maurice Elias, Psychology, School of Arts and Sciences Joseph E. Zins Distinguished Scholar Award **Ann V. Fabian**, American Studies, School of Arts and Sciences *Sawyer Seminar*, *Mellon Foundation*

Richard S. Falk, Mathematics, School of Arts and Sciences *Fellow, Society for Industrial and Applied Mathematics*

Eric Gawiser, Physics and Astronomy, School of Arts and Sciences
National Science Foundation Faculty Early Career Development (CAREER) Award

Daniel Goldstein, Anthropology, School of Arts and Sciences *Faculty Scholar-Teacher Award*

J. Frederick Grassle, Benthic Ecology and Ocean Biogeography, Institute of Marine and Coastal Sciences, School of Environmental and Biological Sciences International Cosmos Prize, Scientific Steering Committee of the Census of Marine Life

Leonard Hamilton, Psychology, School of Arts and Sciences Rutgers College Class of 1962 Presidential Public Service Award

Max Haggblom, Biochemistry and Microbiology, School of Environmental and Biological Sciences

Fellow, American Academy of Microbiology

Steven Handel, Ecology, Evolution, and Natural Resources, School of Environmental and Biological Sciences

Theodore Sperry Award, Society for Ecological Restoration Sciences

John W. K. Harris, Anthropology, School of Arts and Sciences Warren I. Susman Award for Excellence in Teaching

Saurabh Jha, Physics and Astronomy, School of Arts and Sciences Harvard University Bart J. Bok Prize

Charalampos (Babis) Kalodimos, Chemistry and Chemical Biology, School of Arts and Sciences

Blavatnik Award

Jenny Kehl, Political Science, Faculty of Arts and Sciences–Camden Abe Fellowship, Social Science Research Council

Joachim Kohn, Chemistry and Chemical Biology, School of Arts and Sciences Daniel Gorenstein Memorial Award

John Kucich, English, School of Arts and Sciences Board of Trustees Award for Excellence in Research

Selected Faculty Honors continued

Eric Lam, Plant Biology and Pathology, School of Environmental and Biological Sciences

Alexander von Humboldt Research Award

T.J. Jackson Lears, History, School of Arts and Sciences Faculty Scholar-Teacher Award

Barbara Lee, Human Resource Management, School of Management and Labor Relations Alice Paul Equality Award, Alice Paul Institute

James T. Luxhoj, Industrial and Systems Engineering, School of Engineering Fellow, Institute of Industrial Engineers

Judith L. McCoyd, School of Social Work

Award for Excellence, National Association of Perinatal Social Workers

Mor Naaman, Library and Information Science, School of Communication and Information National Science Foundation Faculty Early Career Development (CAREER) Award

Ferris Olin, Director, Institute for Women and Art Lifetime Achievement Award, Women's Caucus for Art

Hoang Pham, Industrial and Systems Engineering, School of Engineering *Fellow, Institute of Industrial Engineers*

Jayne Ann Phillips, English, Faculty of Arts and Sciences–Newark Faculty Scholar-Teacher Award

Catherine Puglisi, Art History, School of Arts and Sciences *Fellow, Bogliasco Foundation*

Alan Robock, Environmental Sciences, School of Environmental and Biological Sciences *Fellow, American Geophysical Union*

Amrik S. Sahota, Genetics, School of Arts and Sciences *Fellow, National Academy of Clinical Biochemistry*

Louis A. Sass, Clinical Psychology, Graduate School of Applied and Professional Psychology Joseph B. Gittler Award, American Psychological Foundation

Daniel Seidel, Chemistry and Chemical Biology, School of Arts and Sciences Amgen Young Investigator Award

Natasa Sesum, Mathematics, School of Arts and Sciences
National Science Foundation Faculty Early Career Development (CAREER) Award

Tanya Sheehan, Art History, School of Arts and Sciences *Fellow, W.E.B. Du Bois Institute at Harvard University*

Shirley Smoyak, College of Nursing

Lifetime Achievement Award, Network for Psychiatric Nurse Researchers, Royal College of Nursing, London

Eduardo Sontag, Mathematics, School of Arts and Sciences Institute of Electrical and Electronics Engineers (IEEE) Control Systems Award

Huapei Wang, Environmental Science, School of Environmental and Biological Sciences Schlanger Fellowship, Consortium of Ocean Leadership U.S. Science Support Program

Keith Weber, Learning and Teaching, Graduate School of Education *Board of Trustees Award for Excellence in Research*

John Worobey, Nutritional Sciences, School of Environmental and Biological Sciences *Fellow, American Psychological Association*

Weida Wu, Physics and Astronomy, School of Arts and Sciences Alexander von Humboldt Research Fellowship

Alexander Zamolodchikov, Physics, Rutgers High Energy Theory Center, School of Arts and Sciences

Dirac Medal, International Centre for Theoretical Physics

University Seal



The university seal is the official imprimatur of Rutgers, The State University of New Jersey. As such, it appears on official documents, such as contracts and deeds, and, most notably, on the diplomas issued to graduates of the university.

The outer ring contains the name of the university. The inner ring includes the date of Rutgers' founding, 1766, as Queen's College, the eighth institution of higher learning established in the American colonies. The university's motto, "Sun of righteousness, shine upon the West also," appears in Latin in the inner ring, surrounding a stylized sunburst. The motto is an adaptation of the motto of the University of Utrecht in the Netherlands, connoting the original college's early affiliation with the Dutch Reformed Church. It is today interpreted as a request for the enlightenment of learning to shine equally upon the New World.

University Coat of Arms



The shield of the Rutgers coat of arms appears on the university gonfalon, which is borne by a faculty member at the head of all university processions.

The shield is quartered to represent in armorial bearings the founding and the growth of the 246-year-old university.

The first quarter (dexter, or right upper quarter of the shield as one would carry it) bears the arms of Nassau, the House of Orange, and recognizes the Dutch settlers who founded the college under the aegis of the Dutch Reformed Church.

The armorial devices in the upper sinister quarter are those of George III combined with Queen Charlotte's. George's arms represent his dominions of England, Scotland, and Ireland; and the two small escutcheons, centered, his ancestral right to bear the arms of Brunswick and Saxony. The crest on the dexter small escutcheon is the Crown of Charlemagne, which George III as Treasurer of the Holy Roman Empire was entitled to show. It was George III who granted the Charter of 1766 to Queen's College, named in honor of Charlotte of Mecklenburg, King George's consort.

The arms shown on the sinister half of this quarter are Queen Charlotte's and represent the German states ruled by the House of Mecklenburg.

The third quarter, dexter, is the emblem from the Great Seal of the State of New Jersey, which Rutgers as the state university is entitled to show. Fittingly, the plows depicted also symbolize Rutgers' designation as one of the original land-grant colleges.

The fourth quarter, sinister, is the coat of arms of Colonel Henry Rutgers, an early benefactor of what was then known as Queen's College. Colonel Rutgers was a descendant of Rutger Van Schoenderwoerdt, who settled in New York in the 17th century. The family name was changed to Rutgers in 1636. The name of the college was changed in 1825 to honor Colonel Rutgers, trustee and benefactor.

University Mace



The university mace, an ornamental staff symbolizing the authority of the president, is borne before the president in academic processions by the secretary of the university.

The design of the Rutgers mace incorporates signs of the institution's traditions and present status as New Jersey's state university. The head of the mace bears the university's coat of arms and its seal worked in colored enamel and gold on silver, all surmounted by a facsimile of the crown of Queen Charlotte, for whom the university was originally named "Queen's." The long shaft is made of stained wood and silver on which are engraved intertwining ivy leaves, symbolizing learning; red oak leaves, representing New Jersey's state tree; and violets, the state flower.

Red Lion Bell

Students who process in University Commencement may ring the Red Lion Bell to signal

The name "Red Lion" hearkens back to 1771, when a handful of students attended the first classes of Queen's College in a converted tavern, called the Sign of the Red Lion, located at the corner of Albany and Neilson streets in New Brunswick. The bell itself is part of a Rutgers graduation tradition. In 1825, Colonel Henry Rutgers donated the interest on a \$5,000 bond and a bell to the then struggling Queen's College. The money kept the college alive and as a token of its gratitude, Queen's College was renamed Rutgers College. With a beautiful new bell in place, every graduating member of Rutgers College would ring "The Old Queens Bell" as a rite of passage before graduation.

Today it is not possible to ring the actual 1825 bell. However, to keep the tradition alive, an alumnus, who wishes to stay anonymous, donated this smaller replica of the bell to the Rutgers University Historical Society. At University Commencement, the bell is stationed at the south side of High Point Solutions Stadium, where each graduating student may ring it, continuing a beloved Rutgers tradition in a new way.

Academic Costume



The wearing of academic dress dates back to the early days of the oldest universities in the world. In the American Council on Education's book entitled *American Universities and Colleges*, it is suggested that "Gowns may have been counted necessary for warmth in the unheated buildings frequented by medieval scholars. Hoods seem to have served to cover the tonsured head. . . . "

Throughout the years, European universities have shown great diversity in their academic dress. American universities, on the other hand, when they decided to adopt academic dress, immediately established a code of regulations that today is followed by almost all American institutions. This code has made it possible to distinguish the bachelors, masters, and doctors and, at the same time, recognize the university that has given them the degree.

Gowns: The bachelor's gown has pointed sleeves and is worn closed. The master's gown, worn open or closed, has oblong sleeves, the front part of which frequently is cut away at the elbow. The doctor's gown has bell-shaped sleeves. It is worn open or closed.

At Rutgers, members of the Board of Governors and Board of Trustees, as well as those who hold a doctoral degree from the university, wear the Rutgers gown, which is scarlet with black velvet front panels framed on the outer edge with gold cord braid. The velvet panels are embroidered with a crown and the year 1766 at the neck, signifying the university's founding as one of the original colonial colleges under King George III of England.

Hoods: The hoods vary in size: 48 inches for the doctor's degree, 42 inches for the master's, and 36 inches for the bachelor's. All hoods are lined in silk in the academic color or colors of the institution conferring the degree. If the institution has more than one color, the colors are shown in divisions using chevrons.

Below is a list of some of the faculty colors as prescribed by the Intercollegiate Code for the binding of the hood:

Agriculture / Maize

Arts, Letters, Humanities / White

Business Administration, Commerce / Drab

City and Regional Planning / Brown

Communication and Information

Studies / Gray

Economics / Copper

Education / Light Blue

Engineering / Orange

Fine Arts, Architecture / Brown

Human Resources Management / Dusk

Journalism / Dark Crimson

Labor and Employment Relations / Peacock Blue

Law / Purple

Library Service / Lemon

Medicine / Green

Music / Pink

Nursing / Apricot

Oratory-Speech / Silver Gray

Pharmacy / Olive Green

Philosophy / Blue

Physical Education / Sage Green

Public Administration / Peacock Blue

Science / Golden Yellow

Social Service / Citron

Theology and Divinity / Scarlet

The color or colors of the lining of the hood for the nine colonial colleges are: scarlet, Rutgers; crimson, Harvard; green-gold-silver, William and Mary; blue, Yale; red-blue, Pennsylvania; orange-black, Princeton; light blue-white, Columbia; brown, Brown; and green-white, Dartmouth.

Caps: Black mortarboards or soft hats are worn for all degrees. The gold tassel signifies a doctoral degree.

Alma Mater

ON THE BANKS OF THE OLD RARITAN

My father sent me to old Rutgers, And resolv'd that I should be a man [or a woman]; And so I settled down, in that noisy college town, On the banks of the old Raritan.

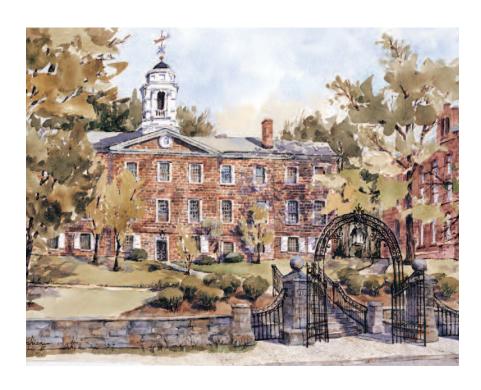
Then sing aloud to *alma mater*,
And keep the Scarlet in the van;
For with her motto high, Rutgers' name shall never die
On the banks of the old Raritan.

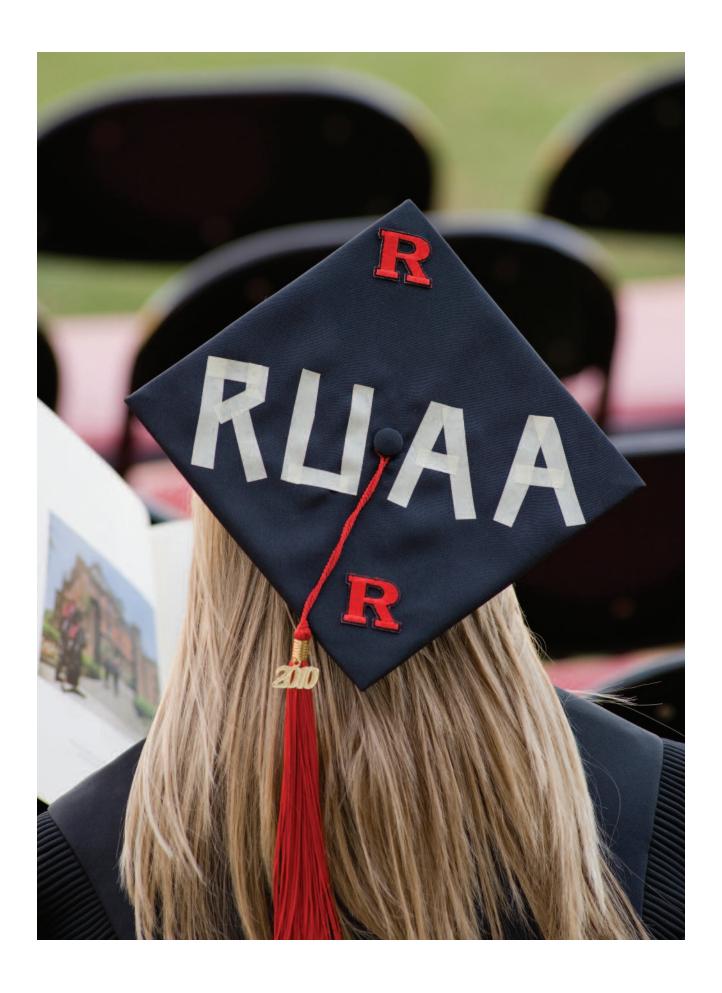
From New Jersey's northern lakes and mountains, To our southern pines and gleaming shore; Learning's fair and hallowed place, joins us, every creed and race,

And we praise the name of Rutgers evermore.

Chorus:

On the banks of the old Raritan, my friends, Where old Rutgers evermore shall stand; For has she not stood since the time of the flood, On the banks of the old Raritan.





Rutgers University Alumni Association

CONGRATULATIONS CLASS OF 2012!

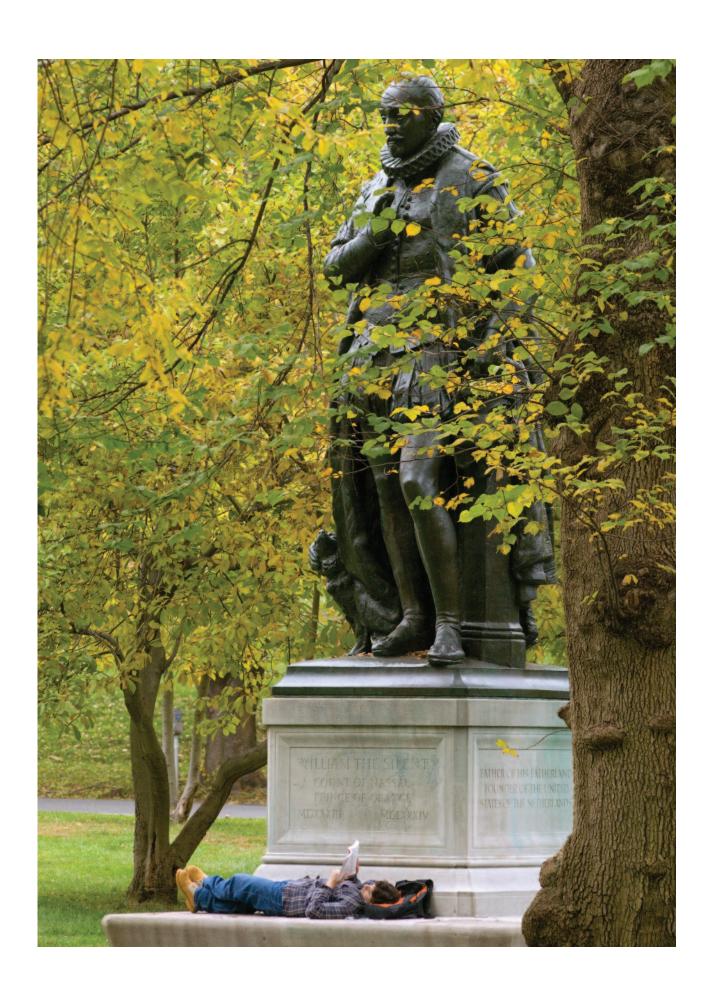
Welcome to the Rutgers University Alumni Association (RUAA), the official alumni organization that all Rutgers graduates are automatically members of—for free, for life! You are joining a network of more than 400,000 proud, living Rutgers alumni worldwide, a legion of scarlet enthusiasts who have shared many of the same experiences and traditions that you have enjoyed throughout your time at Rutgers.

We have many exciting opportunities available to you. Networking events, social outings, exclusive benefits, career resources, and volunteer missions await you as you embark upon this new chapter in your life.

As you make the transition to proud Rutgers graduate, remember **Ralumni.com** is your online headquarters for everything you need to know about the RUAA and about staying connected. We have a wide variety of activities and services tailored especially for new and recent alumni, and as a member you will also receive frequent communications, including *Rutgers Magazine*. We also invite you to become an active participant in the many events the RUAA hosts each year, or in one of our over 100 alumni groups.

We applaud you on this momentous occasion and look forward to sharing the next stage of your Rutgers life with you! Scan the QR code below to get started on your alumni journey, and enjoy your celebration!





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Commencement Music

The Rutgers Wind Ensemble

Herald Trumpeters Rutgers Fanfare Jerry Bilik

Processional

Olympic Fanfare and Theme for the Olympic Flag James Curnow

Pomp and Circumstance Military March No. 1 Edward Elgar

Flourish for Winds Ralph Vaughan Williams

Crown Imperial William Walton Conferring of Degrees

Theme from Superman

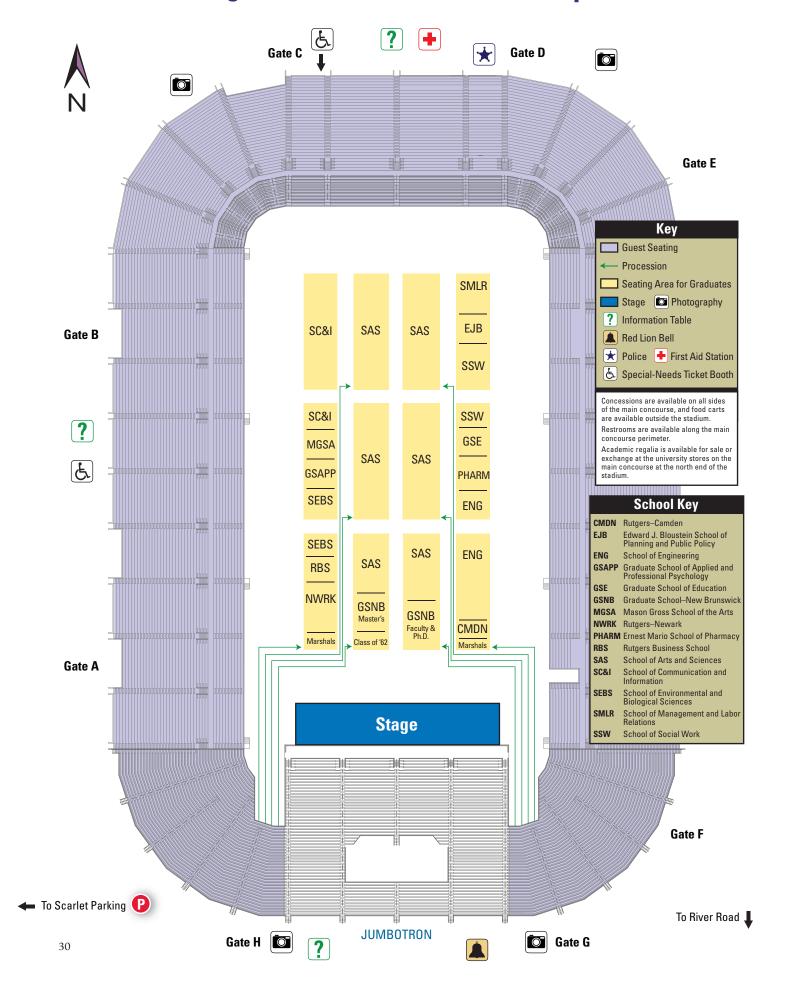
John Williams

Recessional

Americans We Henry Fillmore

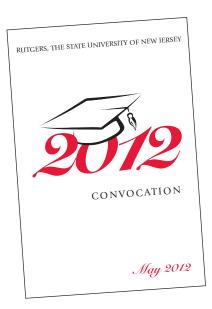
Liberty Bell March John Philip Sousa

High Point Solutions Stadium Map





CONVOCATION PROGRAM BOOKLETS



Go online to download Convocation Program booklets from Rutgers–New Brunswick ceremonies, which include the names of graduating students.



commencement.rutgers.edu/nbprograms

LET US KNOW WHAT YOU THINK

Did you enjoy University Commencement? Do you think that there is anything we could do to improve the experience in the coming years? Take our survey and let us know.



www.zoomerang.com/Survey/WEB22FGR6XQD6M



RUTGERS

Office of the Secretary of the University Winants Hall, Room 112 Rutgers, The State University of New Jersey 7 College Avenue New Brunswick, NJ 08901-1260

> Produced by Rutgers' Department of University Relations. Rutgers photography: Nick Romanenko; page 2: Alan Goldsmith. Illustration, page 23: Marge Chavooshian, Old Queen's Building, watercolor on paper.