RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

CONVOCATION

May 2013

School of Engineering

Commencement
Convocation
Class of 2013

Lot 53A on the Busch Campus
Sunday, May 19, 2013

School Administrative Officers

Thomas N. Farris, Ph.D., *Dean*

Fred R. Bernath, Ph.D., *Associate Dean for Academic Affairs*

Yee Chiew, Ph.D., *Associate Dean for International Students*

Henrik Pedersen, Ph.D., *Associate Dean for Life Long Learning and Professional Education*

Ilene Rosen, Ed.D., *Associate Dean for Student Development*

Jeffery L. Rankin, M.S., *Assistant Dean for First-Year Students, Director of the Honors Academy*

Jean-Patrick Antoine, B.S., *Assistant Dean for Honors Community*

Evelyn H. Laffey, Ed.D., *Assistant Dean for Engineering Education*

Lydia Q. Prendergast, Ph.D., *Assistant Dean for Academic Affairs and Engineering Education*

Peng Song, Ph.D., *Assistant Dean for Transfer Students*

Candeice White, B.S., *Assistant Dean for Women in Engineering*

Christopher Uchrin, Ph.D., *Program Director, Bioenvironmental Engineering*

Noshir A. Langrana, Ph.D., *Chairperson, Department of Biomedical Engineering*

Yee Chiew, Ph.D., *Interim Chairperson, Department of Chemical and Biochemical Engineering*

Nenad Gucunski, Ph.D., *Chairperson, Department of Civil and Environmental Engineering*

Athina Petropulu, Ph.D., *Chairperson, Department of Electrical and Computer Engineering*

Hoang Pham, Ph.D., *Chairperson, Department of Industrial and Systems Engineering*

Richard Lehman, Ph.D., *Chairperson, Department of Materials Science and Engineering*

Alberto Cuitino, Ph.D., *Chairperson, Department of Mechanical and Aerospace Engineering*

Order of Exercises

PROCESSIONAL

PRESIDING OFFICER
Dr. Thomas Farris, *Dean*

MUSICAL SELECTIONS
Rutgers Glee Club

INTRODUCTION OF CHAIRPERSONS AND GUESTS
Dean Thomas Farris

ADDRESS
Paul Hoffman
President and CEO
Liberty Science Center

PRESENTATION OF OUTSTANDING ENGINEERING SCHOLAR AWARD
Matthew Lunemann, *President*
Engineering Society
Rutgers Alumni Association

PRESENTATION OF OUTSTANDING GRADUATE STUDENT AWARD
Henrik Pedersen
Associate Dean for Life Long Learning and Professional Education

STUDENT ADDRESS
Mohammad Ayaz Khan
Mechanical Engineering
Class of 2013

PRESENTATION OF DIPLOMAS
Dr. Fred. R. Bernath, *Associate Dean*;
Dr. Lydia Q. Prendergast, *Assistant Dean*;
and Department Chairpersons

RECESSIONAL

Candidates for the Degree of Bachelor of Science

Curriculum in Applied Sciences in Engineering

STEVEN APONTE
MAHMUT BICER
RYAN BOSCAMP
PRESTON CHANG
SEAN COAKLEY
ISLAM ELALEM
DAVID ELLIS
ANDREW GARZON
SIDRA JAVED
BRIAN KOLODEY
MICHAEL LEE
ASHLEY LYTLE
FESTIM MALAJ
JOHN MELFI
ANDREW NGUYEN
RECEP PEZUKOGLU
JONATHAN SCHOEFFLING
AILICEC URREGO
CALEB WILLIAMS
ISMAIL ENES YIGIT

Curriculum in Bioenvironmental Engineering

EMIL BRAVO †
ANTHONY BROWN †
AMANDA CAMACHO
THOMAS GIORDANO
KYLE GOURLEY
SELWYN JOY †
ALEKSANDER KRIMBERG
BRITTNEY LINDLEY
RAND PIANIN
JOSHUA ROE
OMER SOHAIL †
KATE SULLIVAN
DANIEL VALLEAU
CLAUDE WALLACE
NATALIE WRIGHT

Curriculum in Biomedical Engineering

DONREY ACHARON
DANIEL ALLEN
JORDAN ASH
MICHAEL BIGNELL
DANIEL CATARATA
JING CHAI
ALYSSA CHAN
RONAK CHAWLA [1]
KENNETH CHIU
AMEE CHOVATIYA
MELISSA CONNER
CAROLYNN CRUTE
ALVIN DABHI
JUMANA DAKKA
PRAJESH DESAI [1]
NICOLE DI STEFANO
MARGARET ENTERLINE
PHILIP FEMANO
SATVIK GADAMSETTY
GREGORY GERKEN
JORDANA GILBERT
MARK GRUCZYNSKI
ROHIT GUPTE
LUISA GUTIERREZ OCAMPO
STEPHANIE IRING
RAHMA ISMAIL
BUYANJARGAL JARGALSAIKHAN
JACOB JASLOVE
JARRETT JOHNSON [1] †
BHRADRAJ KALARIA [1]
APARNA KANNAN
SUDHARSHAN KARTHIGEYAN
JAYANA KENANA
SONIYA KHAN
TIMOTHY KHOWONG
PEMA KONGPO
COLIN KOSINSKI
POOJA KULKARNI
APURVA LIMAYE
KACI MADDEN
RICHARD MARCHESE
MEGHAN MAYAT
JILIAN MELAMED
MELISSA METRY
ALI MUSLEH
MUHAMMAD MUSTAFA
SUBIKSHA NATARAJAN
WHITNEY NG LAI
MICHAEL NOCENTINO
BRIAN OSLER
PAUL PARTYKA
ERICA PASCALI
KEYUR PATEL
TIMOTHY PHAN
PRACHI PISAL
ERIC PLUDWINSKI
DAVID PRADO
VIKRAM K PREM KUMAR
ANTONIOS PSARAKIS
SONAL PURI
MONA RAHIMI-TAREE
SREENIVASAN RAJENDRAN
RAJIV RAO
JAY RAVALIYA
BENJAMIN RENNIE
ZACHARY ROSA
ADITYA SAI
MADASER SALEEM

RASHESH SHAH †
ELIZABETH SILAGI
AKIA SMALL
MERRON TADDESSE
RYAN TROMBETTA
CHRISTOPHER VASQUEZ
YUGMA VYAS
RYAN WALLACE
NADIR WILLIAMS
JOHNATHAN WOMACK
BENJAMIN YU
HENRY YU
DHARA ZALA

Curriculum in Chemical Engineering

IBRAHIM AKABA
NAOMI AKANBI
TOBECHUKWU ANAMDI
SAHAR AZMAT
ALEX BATTIPAGLIA
MATTHEW CERWINSKI
HINJUN CHAN
LAMONT CHEN
AARON CHUNG
ELIOT COLLINS
VINCENT DEL MONTE
SAMUEL DILKS IV
MATTHEW DOMINGUEZ
ERIC EYERMAN
SHARIF FARGHALY
PHILIP GALLARO
MARK GALLUCCI
LINDA GAO †
CHARLES GRASSIE
SAMMY GULRAJANI [1]
MEAGHAN GUYADER
KAREEM HOLLIGAN
STEPHANIE JOU
SHOSHANAH KAGEL
DIANE KAO
AVI KAPADIA
EVAN KOUFOS [1]
KEVIN LANGLEY
SYLWIA LAPKIEWICZ
SANG YUN LEE [1]
LIJER LIN
PAUL LUDFORD [1]
WILLIAM MAIULLO
CHRISTOPHER MARZOLINI
VICTORIA MBACHU
RICARDO MEDRANO
ROBERT MOREIRA
KYLE NARCOONIS
UYEN NGUYEN
LAURA NORKUTE
JOHN O'LEARY
HADIR OSMAN
RAMON PENA
MARC PERRATORE
RAJIV PUTCHA
AYSHA RAKHSHAN
FARAH RIYASAT
DAVID ROTHSTEIN
ANURAG SAKHAMURI
JOHN SANTIAGO
EDWARD SCHALL
EMANUEL SCOULLOS [1]
ADHAAR SHARMA
SUMIT SIKKA
ERIC SOMERS
NICHOLAS SON
MODUPE SONAIKE
GARY SPINGARN
COURTNEY STANTON
DEREK STURM
TANVIR TALUKDER
MARK THEILER
KENNETH TIAN
GAVIN TUNG
ATUL VAID
BRANDON WINSHIP
JOHN YI
MATTHEW YOUNG
REMIE YU

Curriculum in Civil Engineering

ABANDA ABANDA
JEREMY ABREU
RALPH ACOSTA
ARMANDO ALFONSO
PARTH AMIN
VICTOR BAQUERO-DURAN
HARRISON BARANY
ANDRES BARREZUETA
MATTHEW BUARON
HARPREET BUTTER
MARK CARUSO
SHANE CASSIDY
ERIC CAVANAUGH
ANDREA CEGLIA
KAREN CHAN
STEVEN CHO
NISARG CHOKSHI
SEAN CONNORS
TREVOR CURTIS
LING DAO
PHILLIP DAROLD
ADITYA DESAI
MATTHEW DESIMONE
ANTHONY DIMAIO
MICHAEL DIMORE
AISHA FARUQI
YAN CARLOS FELIZ
JONATHAN FOX

JACOB FRADKIN
RYAN FRITZ
NIKHITA GANJI
REYNALDO GARCIA
TIMOTHY GAUGHAN [1]
ZEESHAN GHANCHI
CHRISTOPHER GILBERT
JOSHUA GRANT
MATTHEW HAZEN
MICHAEL HOURANI
RICHARD HUANG
HUMBERTO JARAMILLO [1]
MUADIN KADRIU
ISHAAN KAPOOR
CORY KARINJA
KEVIN KAUFMAN
NURALI KHANANOV
SOHAM KHETANI
MIN-CHUL KIM
AARON LEE
MIN LI
JOHN PAUL LOEBS
KHALID MACHICH
GREGORY MAGULAK
SCOTT MALINOSKI
ANTHONY MARRERO
MARK MATARLO †
ALEXANDER MILZA
SEAN MOORE
MOHAMMAD NOORZAIE
LEAH PAK
JOSE PALAO
MINJOO PARK
RYAN PASCULLO
ANKUR PATEL
HIRAL PATEL
NEHA PATEL
PARAG PATEL
RUCHIT PATEL
RUPESH PATEL
STEFAN PAVLOVIC
MICHAEL PEREZ
THOMAS PEREZ
GIANCARLO POZOTRIGO
MICHAEL PRISCO
RYAN PRUIKSMA
ANGELICA QUINTERO
MARTIN RAFLA
RYAN RAMONES
CHRISTOPHER RODRIGUES
WOJCIECH SADEJ
MATTHEW SANTICERMA
MICHAEL SCHIMMENTI
FRANK SCHNEIDER
EBRAHIM SHABBIR
SAMARTH SHAH
SAPAN SHAH
JOSHUA SHERMAN
DEV SINGH
DILRAJ SINGH
GEOFFREY SMITH
DAVID SU
CHINMAY TAVARGERI
WILLIAM THOMPSON
RYAN TIERNAN
RUVICE TSAGUE
SCOTT WHITE
WILLIAM YAU
MICHAEL ZONIN

Curriculum in Electrical and Computer Engineering

RADHIKA AGRAWAL
DAMIAN AMEEN
NANCY ANDIA
ANDRE ANI
JUAN ANTIALON
JONG HYUN BAE
SAAD BAKHT
KARTIK BHATNAGAR
KEVIN BHAVSAR
CHRISTOPHER BRENNAN
BRIAN BUCCELLATO
NELSON CABALLERO
KIN CHAN †
PRAVEEN CHEKURI
CALVIN CHI CHIU
GRADEIGH CLARK
ANDREW CONEGLIANO
DANIEL COX
RYAN CULLINANE
ERIC DEJESUS
JULIO DEJESUS
KRISTIAN DETCHEV
ELVISON DOMINGUEZ
DEAN DOUVIKAS
ROHITH DRONADULA
SCOTT DWARNICK
EREN ERDOGAN
ABDELHAKIM ERGAIBI
PAJTIM FERATI
KAREN FLORES
CHRISTOPHER FREEMAN
BILL FUNG
XIANYI GAO
JAZMIN GARCIA
ERIC GILBERT
DAVID GONGON
ARCHANA GOPIKUMAR
PATRICK GRAY
ERIC GREENDYK
NICHOLAS GUIDA
MADHUMITHA HARISHANKAR [1]
DANIEL HELMLINGER
JAMES HIND
STEPHEN HOEFFNER
SNEHA JAGARLAMUDI
CHRISTOPHER JELESNIANSKI

SHIVAM JINGAR
TAHA KANPURWALA
TARUN KATIKANENI
TODD KATZ
NICOLE KENT
MATTHEW KEYS
SALMAN KHAN
JASKIRAT KHANGOORA
JARED KNOBLAUCH
SHANMUKHA KOTIKALAPUDI
SUHAS KUMAR †
MARK LAW
TRINH LE
EDWARD LEE
JAEEUN LEE [1]
LUIGY LEON
JUSTIN LEVATINO
YING YU LIU
ANTHONY LOCORRIERE
STEVEN LU
THERESA LYE
JONATHAN MALDONADO
OMER MANO
MATTHEW MCCUE
ADNAN MIAH
PRINCE MINGLE
ANDREW MOGHADAM
BENJAMIN MONTONE
CADY MOTYKA
KLESTI MUCO
SHRAVANTHI MUTHURAMAN
DENNY NG LAI
DANIEL NOLTE
TIMOTHY O'BRIEN
JEFFREY OCHS
RONALD OROZCO
AVINASH OZA
WILLIAM PAN
CHIRAG PATEL
HARDIK PATEL
PARTH H. PATEL
PARTH K. PATEL
GREGORY PATON
PHU PHAN
PRADNYA PISAL
JES MARTIN POBLETE
KEVIN POLISTICO
WESTLEY PROPATI
SCOTT QUELLER
ARSALAN RAHMAN
OMAR RAJA
NATALIE RAKETIC
BRIEN RANGE
ABDUL RATTU
PRATIK RINGSHIA
ELIE ROSEN
WILLIAM ROSSI
TIMOTHY SAWMA
TIMOTHY SCHIPSKE
ROY SHABA †
JENNIFER SHANE
OLEKSANDR SHEVTSOV
NOAH SILOW-CARROLL
JOHN SINGURA
MARSHALL SISS
KEVIN SOUNTHAVONG
AUSTIN SPADARO
LUKE STEEPY
AARON SUN
ERIC TANG
YUN TANG
ANDREY TERENTIEV
SWAYAM THACKER
MOZAM TODIWALA
MIROSLAV TOMASKA
NELSON TONG
DANIEL TOWNSEND
CHRISTOPHER TRAN
PETER TU
DAVID TULCHINSKY
ALEXANDER UDOVIC
RYLAN UHEREK
MICHAEL VAN GENDEREN
NEERAJ VENKATESAN
JOHN WALDT
JOSEPHINE WALENTOWICZ
SILAS WALTZER
KRISTIN WEIDMANN
ERIC WENGROWSKI
ANDREW WILLSON
TINGYOU XU
ZHI YANG
SIVA YEDITHI
MARINA YOUSSEF
SONGFEI ZHANG
LEE ZHOU

Curriculum in Industrial Engineering

KWABENA AGYEMANG
THOMAS BARLOW
RAMONE BARNES
ROMAINE BARNES
MICHAEL CHENG
YUN JUN CHUNG
VICTOR CUSATO-ROSA
NIKITA DHILLON
MICHAEL EGAN
ARDA ERZIN
AUGUST GRIMM
MILAD HADDAD
VU HO
LALAINE INUMERABLES
TARUN JADA
JAVIER JARAMILLO
SEUNG YEOP JEE
SAHIR JIWANI
JOSUE JOLIBOIS
RONALD JOSIAS
DAVID KIM
ELIZABETH KIM

RUTH LAFRANCE
PETER LEBRON
TOMASZ MADON
NEEL MAINTHIA
CLAUDIA MEDINA
JEFFREY MELTZER
JAMES NEAL
JAMES NGUYEN
ADRIAN POLTORAK
HOLLY POWELL
LINDSAY RISO
NICHOLAS RUGGIRELLO
JOSEPH SIKORSKI
KENLEY TAN
LAUREN WAGNER
JOSEPH WONG
NELSON YEUNG

Curriculum in Materials Science and Engineering

ALEXA ABDELAZIZ
DAVID ABRAMS
DIANA BAGINSKI
LAURA BOZZAY
BRYAN BYLES [1]
BRITTANY CALLAHAN
THOMAS CAO
DANIEL D AMORE
MEHUL DALAL
NEIL DOLINSKI [1]
BRENT ENGLER
SHUYAO FAN
GABRIELLE FERRER
MATTHEW FREEMAN
ADAM GARCIA
SETH GOONETILLEKE
MARK JAEGER
MICHAEL KAGAN
JAESUNG KIM
DARYL KULIGOWSKI
MIRIAM LEICHTMAN
MATTHEW MAZZOCHETTE
SWAPNIL MHATRE
JONATHAN MITCHELL
MICHAEL SENDER
CHIRAG SHAH
VICTORIA TICE
GREGORY YESNER
ANDREW ZHARNEST

Curriculum in Mechanical Engineering

PHILIP AHN
MICHAEL ALAIN
ADRIAN ALCANTARA
MUHAMMAD ARSHAD
KONSTANTIN AYDIN
GABRIEL AZACETA
JOHN AZZINARO
GEORGE BALLA
ARTHUR BARRETT
PATRICK BELL
JOHN BERARDI
HEPBURN BEST
YASH BHALERAO
SHILADITYA BHAWMIK
THOMAS BRAGEN †
PETER BRAUNIUS
WILLIAM BRZOZOWSKI
TRAVIS BUMGARNER
GERALD CARINO
NICHOLAS CARROZZO
BRIAN CHAN
JOON Y CHANG
ALBERT CHEN
YU CHENG
DARCY CHIRIBOGA
CATHERINE CHO
GRACE CHOI
DEVIN CLARK
ANDREW COHEN
KAYLEE CONNER
ARLIND COTI
ANDREW CRAWFORD
MICHAEL CRUZ
JENNY DAHABSU
ADRIAN DAUKSZEWICZ
NICHOLAS DECIBUS
BRANDON DELIBERO [1]
CHRISTOPHER DEPPE
PRATIK DESAI
SAMEER DHARSEE
GUILLERMO DIAZ COLON
MATTHEW DOMBROWSKI
STEVEN DOWELL
THOR DUANN
WANDA DURAN
NAZAR DZOBA
ERIC ENGLER
CHASE EVANS
CHRISTINA EVANS
SIMONE FERMIN
BRONSON FERRI
KYLE FLEISCHER
WILLIAM FRANZ
BENNY FUNG
STANISLAV FUSMAN
DANIEL GALLAGHER
DEVIN GALLAGHER
XIMING GAO
JOHN GLINKO
RYAN GODFREY
PAWEL GOMULKA
JOSEPH GONDEK

ROBERT GRADO
WILLIAM GRETZMACHER IV
CHRISTOPHER HANDY
JAMES HANSEN
THOMAS HANSEN [1]
KEVIN HENGST
TYLER HERDEG
ALAN HONG
ASHKAN HOSSEINI
DARRIN HUI
FRANCISCO IBARRA
JEFFREY INFANTE
JAMES JORDAN
STEVEN JUNG
SCOTT KELLER †
LIAM KERNS GILROY
MOHAMMAD KHAN
JAMES KIM
YUL KIM
MICHAEL KLAVENS
YEHOSHUA KLYMAN
SAMSON KOT
ANTHONY KUNCAS
ALEXANDER LAZARICIU
DANIEL LEE
ESTHER LEE
SEAN LEE
RACHEL LEGMAN
STEVEN LEGVARI
CHRISTOPHER LICCIARDI
WANCHAI LIM
MATTHEW LITTLE
XIN LIU
CHRISTOPHER LYNCH
MATTHEW MA
GAUTAM MADHIVANAN
JAMES MAGUIRE
ROY MARCO
ZACH MAYER
JOSEPH MCNALLY
SLOBODAN MLADJENOVIC
GREGORY MOOS
TOYYIB MORAKINYO
ORPHEE PATRICK NDAHIRIWE
WILLIAM NEAVES
JARED NESPOLI
JOSEPH NGUYEN
JAKE NOCCIOLO
MICHAEL NOTTA
MICHAEL OAKES
PATRICK O'NEIL
GABRIEL ORRICO
DANIEL OSORIO
ERIC OUGH
PATRICK PANAHON
YUN PARK
DAMON PASQUALE
HARDIK PATEL
ADRIEN PERKINS
BENJAMIN PIERSON
ADAM PIZZAIA [1]
DINA POLACK
CHRISTOPHER PRYCE
TIMOTHY QUINN
TYLER RABA
RYAN RAGOZA
JOEL RAMIREZ
SAGAR RANA
BRENDAN REAP
SIADELY REYES
MATTHEW RICHMOND
JAMES RIZKALLAH
ISAAC RIZZO
PHILIP ROSENKRANTZ
PHILIP RYBAK
THOMAS SAK
JEFFREY SALCEDO
AHMED SALEH
BENNET SAMANI
RICHARD SAMARAKONE
ALEJANDRO SANCHEZ
SAMYAK SAXENA
KEVIN SCALA
PETER SCHMITT
ANDREW SEBESHALMI
BANSARI SHAH
NIRVI SHAH
VAIBHAV SHAH
DENIS SHCHERBAKOV
PETER SIBOLE
PARTH SONI [1]
CHRIS SPENGLER
KYLE STARK
CHRISTOPHER STRECK
TIMOTHY STROMBERG
KENICHI SUMIOKA
JEFFREY TAYLOR
ADAM THACKARA
PANAGIOTI THEODORAKOPOULOS
MATTHEW THORN [1]
JASON TORRES [1]
AMINA TRABELSI
CHRISTOPHER TRAN
MARC TRIEBWASSER
QUYEN TRINH
SIDDHARTH TRIPATHI [1]
IHSANCAN TURAN
MICHAEL VEAL
ARJAY VERGARA
REGINALD VIEZEL
ANDREW WANG
PATRICK WRAGA
AGNIESZKA WYNAR
JOSEPH XIAO
SUNYONG YI
DANIEL YOUSSEF
MUHAMMAD ZAHID
DAN ZHANG
GARY ZIMMER

† Indicates B.A./B.S. or B.S./B.S. dual degree
[1] Indicates James J. Slade Scholar

JAMES J. SLADE SCHOLARS

Department of Biomedical Engineering

RONAK CHAWLA
Development of an ADHD Diagnostic Platform using Novel Biometrics

PRAJESH DESAI
The Effect of Conditioned Media in Promoting the M2 Macrophage Phenotype

JARRETT JOHNSON
Pillar-Induced Droplet Separation using a Self-Assembled Monolayer for DNA Phenol Extraction

BHRADRAJ KALARIA
Droplet-Based Multiphase Separation using an Electrowetting Technique

Department of Chemical and Biochemical Engineering

SAMMY GULRAJANI
Polymer Drugs for Controlled Drug Delivery

EVAN KOUFOS
The Effect of Lipid Chain Length and Lipid Head Architecture on the Mechanical Properties of Amphiphilic Bilayers using Dissipative Particle Dynamics

SUNG YUN LEE
Design of Tunable Aggregate Morphologies using Peptide Blocks

PAUL LUDFORD
Computational Studies of Domain Formation in Two-Component Livid Vesicles

EMANUEL SCOULLOS
Resilient Graphene Based Foams for Lightweight Applications and Electrochemical Processes

Department of Civil and Environmental Engineering

TIMOTHY GAUGHAN
Impact of Improvements in Traffic Control

HUMBERTO JARAMILLO
Nutrient Removal from Stormwater Runoff

Department of Electrical and Computer Engineering

MADHUMITA HARISHANKAR
Development of a Mobile Application for Android Cellular Phone

JAE LEE
Evaluation of the Future Mobile Internet:
General Storage Aware Routing (GSTAR)

Department of Materials Science and Engineering

BRYAN BYLES
Synthesis of FeOF via Oxidation of FeF2 Thin Films and Subsequent Lithiation

NEIL DOLINSKI
Fundamentals of Ligand Exchange on Gold Nanorods

Department of Mechanical and Aerospace Engineering

BRANDON DELIBERO
Theoretical Study of EK Propulsion in Micro-Channels

THOMAS HANSEN
Fabrication and Analysis of High Flow Rate Electroosmotic Pumps

ADAM PIZZAIA
Sonic Jet Injection into a Supersonic Cross Flow

PARTH SONI
AAO Membrane Surface Modifications

MATTHEW THORN
A High-Throughput Method for Mechanical Characterization of Cells

JASON TORRES
Three-Phase Cement-Based Piezoelectric Composites for Sensor Applications

SIDDHARTH TRIPATHI
Electrokinetics and Membrane

JAMES JEREMIAH SLADE

During his long and legendary tenure as a professor of engineering mechanics at Rutgers University, James Jeremiah Slade was a noted researcher, brilliant mathematician, and beloved by the students he taught for 36 years. Slade, who retired in 1964, received world-wide acclaim for his discoveries in the mechanics of turbulent sedimentation and self-excited oscillations and is credited with attracting many of the researchers who bought prominence to the College of Engineering, as well as to the university. He is remembered at Rutgers for developing a course called Engineering Analysis which became part of the required junior curriculum. It was his intense presentation of the material that earned the course a new student-selected title: "The Slade Mystery Hour."

A man of many talents, Slade was also a novelist who wrote about the Mexican Revolution of 1910, based upon his own experiences as a youngster who was born and raised in Mexico; a family man who lived in a 15-room house in "rural" Middlebush with his wife and two children; and active in the affairs of the community. The James J. Slade Scholars carry on a tradition of excellence in scholarship and research as exemplified by Slade.

ALUMNI-INDUSTRY SCHOLAR

The Alumni-Industry Scholar program is a unique award opportunity, envisioned and funded with the support of alumni, that gives Rutgers engineering students the opportunity of an enhanced education combining academics, real-world internships, lifelong mentoring, and financial support. The program is explicitly designed to set the stage for professional and personal success and to instill a commitment by scholars to continue the cycle by giving back to up-and-coming School of Engineering students.

About the School

Chartered as Queen's College in 1766, Rutgers was the eighth institution founded prior to the Revolutionary War. In 1825, the name was changed to Rutgers College in honor of Colonel Henry Rutgers, a veteran of the Revolution, "in gratitude for his numerous services" to the institution.

Under the land-grant program of 1864, instruction in agriculture, engineering and military education was introduced, and a program leading to the Bachelor of Science degree was established. The College of Arts and Sciences and the College of Agriculture and Engineering, designated separate units in 1914, were joined in 1918 by the New Jersey College for Women (which later became Douglass College). In 1917, the state legislature named the Rutgers Scientific School, which included the Colleges of Agriculture and Engineering, as the state university of New Jersey, and in a similar action in 1945 all the units of Rutgers and the Agricultural Experimentation Station became truly the state university.

Engineering at Rutgers dates back to 1864. Brevet Major Josiah Holcomb Kellogg, an 1860 graduate of West Point, was the first professor of engineering. The initial program, primarily civil engineering, produced a graduating class of seven in 1868. The first professor of electrical engineering was appointed in 1903, and in 1908 the Department of Mechanical Engineering was organized. In 1902 an act of state legislature established a ceramics department which became part of the College of Engineering in 1945.

The College of Engineering as a coordinate division of the university was created in 1914 and the Engineering Experiment Station (later entitled the Bureau of Engineering Research) was established in 1926. In 1999, the College of Engineering was renamed to the School of Engineering in to reflect the comprehensive nature of our programs.

The School of Engineering now includes seven undergraduate and graduate departments, including Biomedical Engineering, Chemical and Biochemical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, Industrial and Systems Engineering, Materials Science and Engineering and Mechanical and Aerospace Engineering. In addition, undergraduate programs are offered in Applied Sciences in Engineering (which includes Packaging Engineering) and Bioenvironmental Engineering.

Today Rutgers University on its three major campuses— New Brunswick/ Piscataway, Camden and Newark— along with some ten other research and teaching locations provides programs for more than 50,000 students from 50 states and 86 countries in its 29 degree-granting schools and colleges. Rutgers is the only institution in the country to include in its heritage a colonial college of the eighteenth century, the land-grant tradition of the nineteenth century, and the development of the modern state university.

The 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 continued to show 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 which today is followed by almost all American institutions. The establishment of this code has made it possible to distinguish the bachelors, masters, and doctors and, at the same time, recognize the university which has given the degree.

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. Cotton poplin or similar material is used for the bachelor's and master's degrees, and rayon or silk ribbed material is used for the doctor's degree.

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.

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. The binding or edge of the hood is usually made of velvet in the color designating the subject in which the degree was granted. Black mortarboards are worn for all degrees.

Some of the colors in the binding of the hood are: maize, Agriculture; white, Arts and Letters; orange, Engineering; purple, Law; lemon, Library Service; green, Medicine; light blue, Education; olive, Pharmacy; blue, Philosophy; gold Science; and citron, Social Work.

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.

About the Speaker

Paul Hoffman is a noted expert on the public understanding of science whose remarkable career has included stints as a journalist, biographer, media executive, scientific advisor, television personality and commentator, and paradoxologist. He is currently the chief executive officer of the Liberty Science Center and is the curator of *Beyond Rubik's Cube*, a 2014 traveling exhibit celebrating the 40th anniversary of the popular square-shaped puzzle.

Widely published in *The New Yorker, The New York Times, The Wall Street Journal*, *Scientific American*, *Time, Wired*, and more, Hoffman describes his work as exploring "the relationship between genius, madness, obsession and creativity." He has been a "brainstorming expert" for Internet startups, publishers, advertising agencies, museums, and scientific organizations from NASA to the National Science Foundation. He also served as president of both Discover magazine and Encyclopaedia Britannica, and as the editorial chairman of Big Think. A well-known television personality, Hoffman has appeared on CNN, ESPN, BBC, *Good Morning America*, *PBS NewsHour, The David Letterman Show,* and *The Oprah Winfrey Show*, among others.

Hoffman is the author of 11 books, including *The Man Who Loved Only Numbers: The Story of Paul Erdös and the Search for Mathematical Truth*, which received the Rhone-Poulenc prize for best science book of the year.

Under the nom de plume Dr. Crypton, he has created brain teasers, buried treasure hunts, and elaborate puzzle contests for clients such as Sharp and the Museum of Science and Industry. Hoffman is also a food entrepreneur. He is co-owner of Rucola, a locavore Italian restaurant, and BrisketTown, both located in Brooklyn, and he is a partner in Kitchensurfing.com.

A summa cum laude and Phi Beta Kappa graduate of Harvard College, Hoffman is a member of the American Academy of Arts and Sciences.

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