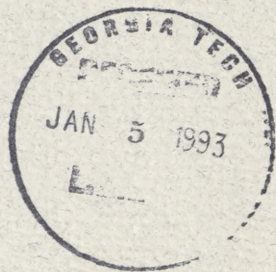


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# Georgia Tech

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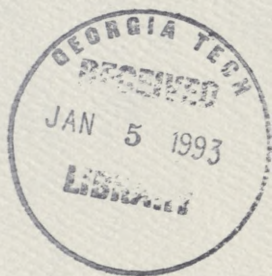
Commencement

Exercises

GEORGIA INSTITUTE OF TECHNOLOGY  
177th COMMENCEMENT  
December 12, 1992  
Alexander Memorial Coliseum

Welcome to the 177th Commencement of the Georgia Institute of Technology. The entire Tech community extends cordial greetings to parents, spouses, relatives, and friends gathered here for this significant ceremony.

For approximately 800 undergraduate and graduate students, today's ceremony recognizes their academic achievements at Georgia Tech and inaugurates a new era in their careers.



<b>Processional</b>	Georgia Tech Brass Ensemble, coordinated by Mr. Bucky Johnson and Mr. Ron Mendola, Department of Music
<b>Master of Ceremonies</b>	Dr. John P. Crecine, president
<b>Reflection</b>	Mr. Carlton O. Parker, director, YMCA
<b>National Anthem</b>	Georgia Tech Brass Ensemble
<b>Commencement Address</b>	Dr. N. Jan Davis, astronaut, NASA
<b>Introduction of Academic Deans</b>	Dr. Michael E. Thomas, executive vice president
<b>Presentation of Undergraduate Degree Candidates</b>	College of Computing, Dean Peter A. Freeman Ivan Allen College of Management, Policy, and International Affairs, Associate Dean Fred A. Tarpley, Jr. College of Architecture, Dean Thomas D. Galloway College of Sciences, Interim Dean Robert A. Pierotti College of Engineering, Dean John A. White
<b>Conferring of Degrees</b>	Dr. Crecine
<b>Presentation of Master's Degree Candidates</b>	Dr. Helen E. Grenga, associate vice president, Graduate Studies
<b>Conferring of Degrees</b>	Dr. Crecine
<b>Presentation of Doctoral Degree Candidates</b>	Dr. Grenga
<b>Conferring of Degrees</b>	Dr. Crecine
<b>Induction into Alumni Association</b>	Mr. H. Hammond Stith, Class of 1958, president, Georgia Tech Alumni Association
<b>Alma Mater</b>	Members of Georgia Tech Chorale
<b>Faculty Recessional</b>	Georgia Tech Brass Ensemble
<b>"Ramblin' Wreck"</b>	Graduates and audience

You are requested to refrain from loud expressions of pleasure for individual graduates. Such expressions frequently detract from the recognition due the next graduate in line.  
Your cooperation is respectfully but urgently requested.

## BACHELOR'S DEGREE RECIPIENTS

---

### COLLEGE OF COMPUTING

#### BACHELOR OF SCIENCE IN COMPUTER SCIENCE

*High Honor*  
Duane Carl Shippy

*Honor*  
Lawrence F. Lee

Charles Michael Cole  
Gordon Lee Edwards III  
Walter Emery Grace II  
Robert Scott Gue  
Brett Joseph Haas  
Douglas Scott Lawrence  
Louise Lei Lee  
Michael Lee Marler  
Joseph Thomas Minieri  
William G. Thomasson  
Scott Garrett Vickery  
Robert R. Vincent  
Martin Dexter Westbrook  
Edward James Wimberly  
June Patrice Winston  
Holli-Marie Wood

#### BACHELOR OF SCIENCE IN COMPUTER SCIENCE

*Cooperative Plan*

*Honor*  
Richard Allen Forand  
Robert Brian Kinberg

Timothy Michael Blackmon  
William H. Hix  
Charles Bryan Michael, Jr.  
David Michael Pullen

---

### IVAN ALLEN COLLEGE OF MANAGEMENT, POLICY, AND INTERNATIONAL AFFAIRS

#### BACHELOR OF SCIENCE IN HISTORY, TECHNOLOGY, AND SOCIETY

Brittany Elaine Bolton

#### BACHELOR OF SCIENCE IN INTERNATIONAL AFFAIRS

*Honor*  
Steven Lee Fish

Bret Dean Acker  
Todd E. Gillenwater  
Richard Everett Hester, Jr.  
David Cameron McKinney  
Joseph Michael Stallings  
Derek Wayne Tittle  
Edward Spaulding Wilson III

#### BACHELOR OF SCIENCE IN MANAGEMENT

*Highest Honor*  
Molly Montgomery Crigler  
Jon Eston Ingram, Jr.

*High Honor*  
Jeffrey Alan Howard

*Honor*  
Russell Arnold Sykes

John Alton Baumgartner III  
John Hampton Bennett  
Michael Ray Bishop  
Cindy Ellen Burel  
Kathleen Diana Burts  
Bowen Thomas Butler  
Craig Radford Calhoun  
Lisa Karen Cliatt  
John Daniel Clotfelter  
Sheila Susan Coker  
James Brett Connally  
Wendy Evelyn Conner  
David Howard Cooper  
Katherine Marie Day  
Sheri Lynn Douglas  
Elwood Wallace Dykes III  
Suyapa Mercedes Erazo  
Jeffery Kent Espy  
Heather Lee Ezell  
Wendy Leigh Ezell  
Brian Thomas Freeman  
Kimberlee Chanelle Furgess  
Jason Marsh Gotsch  
Mark Elliott Hall  
Gregory Martin Halsall  
William Joseph Harris, Jr.  
Russell Allen Harvey  
Stacey Lee Hoffmann  
Chandarie Sir Ith  
Eddie Lee Ivery  
Susan Elizabeth Jacobs  
Robert Stephen Jaracz, Sr.  
Mark Aloysius Jardina  
Edwin Anthony Joyce III

Walter W. Kang  
Catherine Lynn Knight  
Peter Arthur Lamas  
William David LeFever  
Cynthia Marie Lineberry  
Elizabeth Ann Mascotti  
John Christopher McFarland  
Corey James Miller  
Matthew Ernest Moseley  
Shellie Taray O'Neal  
Victor Manuel Palumbo  
Bruce Montgomery Prock  
Gregg Polk Ratledge  
Scott Bradley Richards  
Dane Alfred Ritter  
Andrew Douglas Robinson  
Adam Michael Rosovsky  
Jeffrey Alfred Rothwell, Jr.  
Mita Shukla  
Chad Harold Smith  
William Jack Spencer IV  
Mark Daniel Tiller, Jr.  
Michael E. Verdesca  
Kevin Turk Watson  
Charles Lamar White II  
Jason Price Wroten  
Tracy Michelle Zimmerman

#### **BACHELOR OF SCIENCE IN MANAGEMENT**

*Cooperative Plan*

*Highest Honor*

Amelia Verner Latimer

*High Honor*

Kevin Wayne Glowacki

*Honor*

Kelley Beth Oliver

Timothy James Christian

David Lamar Crowe

Susan Mary McAlear

Karen Lynn O'Hare

Brendan O'Rahilly Smith

#### **BACHELOR OF SCIENCE IN MANAGEMENT SCIENCE**

*Honor*

Daniel Brent Langsford

Russell Bryan Broadway

Laurie Elizabeth McLaughlin

Pamela Chong Mi Na

## **COLLEGE OF ARCHITECTURE**

### **BACHELOR OF SCIENCE**

*High Honor*

Emery Stapleton Leonard III

*Honor*

Franciso J. Rodriguez Suárez

Keith Robert Black

Joseph Donald Blount, Jr.

Claudia Marie Crissey

Mark Edward Daniel

Craig Andrew Dixon

Watson Lee Dorn III

Joanne Lorraine Gaffery

Margaret Diana Gorman

Russell Edward Harrell

Christopher Kendric James

Jerrell Gilmer May

Sean Michael Nicholason

David Wesley Price

Elizabeth Laura Pritchard

Michael Ruef

Jennifer Julane Sherr

Chun-I Wang

Laura Catheryn Wilcher

Dale Osbourne Wilson

### **BACHELOR OF SCIENCE IN BUILDING CONSTRUCTION**

*High Honor*

Matthew James Jones

Sean Kevin Dacey

Kayle Hugh Gastley

William Birkett Howarth

Angie Denise Jones

Joshua Troetel

### **BACHELOR OF SCIENCE IN INDUSTRIAL DESIGN**

*High Honor*

Cynthia Ann Sherwin

*Honor*

Gary Earl Torkington II

Gregory Pendleton Bailey

Joel Scott Johnston

Catherine Ashley Sharp

Barbara Michelle Swindell

---

## COLLEGE OF SCIENCES

### BACHELOR OF SCIENCE IN APPLIED BIOLOGY

Angela Monique Cate  
Mary Melanie Dalton  
Severine Alison Groves  
Amy Alyne Huston  
Elizabeth Maria Vincenzo  
William Edwin Webb  
James Miller Wilson V

### BACHELOR OF SCIENCE IN APPLIED BIOLOGY

*Cooperative Plan*

*High Honor*  
David Kelly Bard

### BACHELOR OF SCIENCE IN APPLIED PSYCHOLOGY

*Honor*  
Michael Kelsey Waller  
  
Laura Suzanne Dansbury

### BACHELOR OF SCIENCE IN APPLIED MATHEMATICS

Leinaala Connor Brewer  
Heather Leigh Cofer

### BACHELOR OF SCIENCE IN APPLIED PHYSICS

*Highest Honor*  
John Michael Bouras

### BACHELOR OF SCIENCE IN CHEMISTRY

David Richard D'Amato  
Melinda Patricia Gwitt

### BACHELOR OF SCIENCE

Alpette Richardson

---

## COLLEGE OF ENGINEERING

### BACHELOR OF MATERIALS ENGINEERING

*Honor*  
Lonnie Jay Harrison  
  
Paul Daniel Nowoswiat

### BACHELOR OF MATERIALS ENGINEERING

*Cooperative Plan*

*High Honor*  
Nedwin Hernandez Asuncion

John Daniel Boone  
Edward Todd Wright

### BACHELOR OF COMPUTER ENGINEERING

Patrick Brendan McBrayer

### BACHELOR OF NUCLEAR ENGINEERING

*High Honor*  
John Clarence Richards

### BACHELOR OF ENGINEERING SCIENCE AND MECHANICS

Paul Daniel Eichamer, Jr.  
Johnnie Watson III  
William Hunter Wilson

### BACHELOR OF INDUSTRIAL ENGINEERING

*Highest Honor*  
Bruce Lamar Roberts

*High Honor*  
Julie Lynn Jackson Bailey  
Mark Alan Marcum  
Christina Pearl Olson

*Honor*  
M. Burcak Akisha  
Tim Allen Gottfried  
Michael Kelsey Waller

Federico Ricardo Aguilar  
Andrew Robert Benz  
William Charles Boswell III  
Tara Lynne Brooks  
Jealeatha Anniece Brown  
Jeffery Len Cato  
Thomas Andrew Day  
Jennifer Leigh Drummond  
Eduardo Arturo Facusse  
Eduardo Enrique Fernandez  
Robert Charles Frenzel, Jr.  
Christopher Scott Golden  
Brent Swomley Goolsby  
Keith Brian Hughes  
Kristin Leigh Krug  
Richard S. Lin  
Marcus Antonio Matthews

John Richard McMillen  
Timothy Warren Muir  
Kelly Colleen Newell  
Victor Dennard Owens  
Carla Oxendine  
Son Van Pham  
Brady L. Rackley III  
Kevin Jay Seefried  
Marc Daniel Sorce  
Abiraman Subramanian  
Kimberly Noelle Thompson  
Richard Alan Weatherford  
Blake Lamar Wolfe

**BACHELOR OF  
INDUSTRIAL ENGINEERING**

*Cooperative Plan*

*Honor*

Andrea Machree Hix

Christopher Adam Brooks  
Lawanna Ann Buice  
Jeff Edward Gowan  
Susan Kay Low  
Colleen Marie Lozen  
Bartholomew James Nipert  
Karen Denise Thacker  
Laurie Ann Wandling

**BACHELOR OF  
AEROSPACE ENGINEERING**

*Highest Honor*

Susanne Marie Essig

*Honor*

William Chuan-Tien Liu  
Marc Ronald Robert  
Eve Elise Whitney

Michael Faulkner  
Chung-Wei Jamie Hsu  
Jeffrey Rand Krueger  
Jason George Lenakos  
Todd William Parrish  
Clifton Marcell Perry, Jr.

**BACHELOR OF  
AEROSPACE ENGINEERING**

*Cooperative Plan*

*High Honor*

Maria Karen Toogood

*Honor*

Steven A. Smith

**BACHELOR OF  
CHEMICAL ENGINEERING**

*Highest Honor*

Michael Robert Houston

*Honor*

Barry Lawton Bowman

Christine Kelly Barry  
Judy Lynn Bowers  
David Alan Bruce  
Daniel Mario Gatti  
Joy Francine Jordan  
Alpa Sanjay Shah

**BACHELOR OF  
CHEMICAL ENGINEERING**

*Cooperative Plan*

*Highest Honor*

Timothy George Benish  
Samuel Elliot Feuer

Robert James Dickson  
Jason Kenneth Glasgow  
Charles Michael Williams

**BACHELOR OF SCIENCE IN  
TEXTILES**

Patricia Worthington Knight  
Shannon James McCarthy

**BACHELOR OF SCIENCE IN  
TEXTILES**

*Cooperative Plan*

William Archibald Barron III

**BACHELOR OF  
TEXTILE ENGINEERING**

Rafer M. Benson  
Kevin Wade Hilton  
Rae Deneen Stover

**BACHELOR OF  
TEXTILE ENGINEERING**

*Cooperative Plan*

George Harrison Jones

**BACHELOR OF  
CIVIL ENGINEERING**

*Highest Honor*

Julie Michelle Doyle

*High Honor*

James William Eckert, Jr.  
Keith Dean Sanders  
Jonathan Earl Schubarth

*Honor*

Thomas Patrick McGill

Brian Charles Alberga  
Charles John Beadles  
Edward Kent Benson

John Robert Hutwagner  
Jimmy Todd Jackson  
Daniel Ryan McDuff  
Fani Bandise E. Mtetwa  
Clayton Matthew Orwig  
Donald Edward Perry, Jr.  
Jere Carl Richardson  
Michael Gerald Robinson  
Jeremy Curtis Sims  
Michael Andrew Solms  
Stephen Christopher Spry  
Jeffrey Monrad Wold

**BACHELOR OF  
CIVIL ENGINEERING**

*Cooperative Plan*

*Honor*

Steven Martin Evans  
Michael Neal Spradlin

Daniel James Coyle  
Kristie Michelle Drury  
John Marshall Kelley  
Raissa Lonelle Mateo Cortes  
Mark Walid Nannis  
Carol Delene Perry  
Jeffrey Neil Stegman  
Patrick William Zomer

**BACHELOR OF  
ELECTRICAL ENGINEERING**

*Highest Honor*

Colin Bernard Baldwin  
Michael Lawrence DeRosa  
Benjamin Allen Fons  
Scott Patrick McMillan

*High Honor*

Katrida Collier  
Dale Scott Douglas  
William Raymond English, Jr.  
Judd England Heape  
Erol K. Yurtkuran

*Honor*

Steven John Brakke  
Mauricio Interiano  
David Franklin Norman  
  
Tony Wendell Amerson  
Barry James Bolling  
Philip Ryan Bowden  
David Allen Bowman  
David Jefferey Bush  
Tyrone Daniel Clements  
Francis Alex Cloutier IV  
Hardie Davis, Jr.

Gregory Thomas Dunn  
James Chung-Hao Fang  
Kenneth Marcus Griffin, Jr.  
Anthony Lee Harris  
Harold A. Hollis  
Timothy Roy Horton  
Stanley Earl Houston, Jr.  
Sukant S. Jain  
Frank Garrett Kaminsky  
John Albert McGuire, Jr.  
Kimberly Eileen Newman  
Michael Dan O'Hearn  
Todd Ashley Bryant Oxford  
Stephen Scott Piper  
Brian Thomas Rigsbee  
Michelle Lisa Rogers  
Stephanie Yu-Wen Sang  
Keith Myron Carl Schroeder  
Richard Anthony Sienicki  
Dexter Lee Smith  
Keith Eric Spiro  
Erika Charisse Stovall  
Brian Kevin Varson  
Linda Taylor Viney  
John Christopher Wieters IV  
Anna Young

**BACHELOR OF  
ELECTRICAL ENGINEERING**

*Cooperative Plan*

*Highest Honor*

Geoffrey Todd Appleton  
Colin Lee Cassidy  
James Song-Jen Chen  
Chris Allan Jensen  
Kirk Matthew Liemohn  
Antonio Jenaro Miranda

*High Honor*

Jonathan Carl Davis  
Kevin Crawford Hawkins

*Honor*

Jill Eileen Allen  
Peter Holmes Haase  
Mary Leland Joyner  
Christopher Alison Lee

Terence Anthony Crone  
Craig Marvin Curtis  
Mark Edward Heinze  
Konstantine Carl Maheras  
Stuart Edgell Mapes  
Eric Frederick Meihofner  
Randall Lawrence Mock  
Robert Lawrence Sadler, Jr.  
Sandip Umanglal Shah

David Judson Shumway  
Thomas Donald Stelter  
David Lee Stiglitz  
Stephen Wai Ho Tam  
Mark David Tuttle  
Jason Chadwick Vickers  
David M. von Behren

## **BACHELOR OF MECHANICAL ENGINEERING**

### *Highest Honor*

Kimberly Lynn Eaves Cardwell  
Lance Anderson Ferguson  
James Alexander Key  
Eric Michael Ritenour  
Benjamin Kao-Shing Sun

### *High Honor*

Scott Michael Alpert  
Shawn Adam Bernard  
Jason Scott Dell  
Nicholas Lyle Jenkins  
Jon Michael Peacock  
Orlando E. Ruiz  
Christopher Warren Shurtz

### *Honor*

Peter M. Dangelewicz  
David Fred Del Vecchio  
Mark Edward Johnson  
Nancy Leigh Moulton  
Ky Nguyen Vu  
Christian St. Peter Weitzel  
James McLester Witt III

### *S. Clark Beard*

Roderick Everett Billups  
John Joseph Bovatsek  
Matthew George Broniec  
Frank Bivins Calhoun III  
Katherine Neal Daley  
Robert Hastings Doepke, Jr.  
Gregory Hayes Eiford  
Douglas Kirk Fleeman  
Nicolette Adelle Gordon  
Charles J. Griffith II  
Patricia Jane Haygood  
James E. Jeffer II  
Troy Ryan Keller

Hyung Il Kim  
Oliver Thomas Koch  
Joseph W. Mahn  
Randy Wayne McLaughlin  
Vien Xuan Nguyen  
Rodney Craig Nilson  
Richard Ethan Nutt  
Marie Elena Pesola  
Rajesh S. Reddy  
Angel Gerardo Rodriguez  
Elena Christine Roush  
Stephanie Suzanne Sanderson  
M. Gray Saunders  
Richard David Sherertz  
Gregory Marshall Spiro  
Kate Ann Thompson  
Wyatt Eugene Thurman  
David Champ Weeks  
Bobby R. Wheeler, Jr.  
K. Bradford Yu

## **BACHELOR OF MECHANICAL ENGINEERING**

### *Cooperative Plan*

### *High Honor*

Walter Scott Radeker IV

### *Honor*

Edward Abraham Hefter  
Christopher Boyd Rogers

Eric Lee Arnold  
Paul Bernard Batra  
Jeffrey Allen Bertelsbeck  
Kenneth Michael Bilson  
Howard Holt Bradshaw III  
Christopher Steven Brown  
Robert Thomas Bucci  
Kenneth Scott Chambers  
Christian Gregory Cullen  
Timothy Joel Morris  
Eric Andrew Myracle  
Edward Howe Rushworth  
Todd Robert Schutte  
Reed Edward Shupe  
Maria G. Taruffi-Smith  
Eric Marshall TeVault  
Cooper Do-bin Yang

**GRADUATE EDUCATION PLANS  
OF UNDERGRADUATE DEGREE  
CANDIDATES**

Students are listed with their graduate school and intended field of study. Faculty or staff members shown in italics are those who were instrumental in the student's decision to attend graduate school.

Scott M. Alpert  
Georgia Institute of Technology  
Mechanical Engineering

Tony Wendall Amerson  
Georgia Southern University  
Business Administration

Kent Benson  
Georgia Institute of Technology  
Structural Engineering  
*Dr. Oliver McGee*

Arindam Bose  
Georgia Institute of Technology  
Aerospace Engineering  
*Dr. B. T. Zinn and Dr. J. I. Jagoda*

Leinaala C. Brewer  
Georgia Institute of Technology  
Mathematics

Douglas A. Bruttomesso  
Georgia Institute of Technology  
Engineering Science and Mechanics

Paul H. Chung  
Georgia Institute of Technology  
Mechanical Engineering

Daniel Coyle  
Virginia Polytechnic Institute and  
State University  
Civil Engineering

Terrence A. Crone  
Mount St. Mary's Seminary, Maryland  
Divinity

Mary Noelle Currey  
Georgia Institute of Technology  
Mechanical Engineering

Robert James Dickerson  
University of Maine  
Chemical Engineering

Victor Donge  
Georgia Institute of Technology  
Industrial Engineering  
*Dr. James Craig and Dr. Daniel Schrage*

Kasra Ghaffari  
Georgia Institute of Technology  
Mechanical Engineering

Jason Glasgow  
University of Alabama  
Environmental Engineering

Mark Hale  
Georgia Institute of Technology  
Aerospace Engineering  
*Dr. James Craig*

Lonnie J. Harrison  
Georgia Institute of Technology  
Industrial Engineering  
*Dr. Paul Griffin*

Michael R. Houston  
University of California at Berkeley  
Chemical Engineering  
*Dr. Paul Kohl and Dr. Anthony Skelland*

Chung-Wei Jamie Hsu  
Georgia Institute of Technology  
Aerospace Engineering  
*Dr. Chien-Hsiung Chuang*

Amy Alyne Huston  
Georgia State University  
Nutrition

Nick Jenkins  
Georgia Institute of Technology  
Mechanical Engineering

James Key  
Georgia Institute of Technology  
Mechanical Engineering

Christopher Alison Lee  
Georgia Institute of Technology  
Electrical Engineering  
*Dr. Nan M. Jokerst*

John-Heon Lee  
Georgia Institute of Technology  
Ceramic Engineering  
*Dr. David Hill and Dr. M. Marek*

William Chuan-Tien Liu  
Georgia Institute of Technology  
Aerospace Engineering  
*Dr. C. H. Chuang*

Calvin Mackie  
Georgia Institute of Technology  
Mechanical Engineering  
*Dr. Carolyn Meyers*

---

Thomas P. McGill  
Georgia Institute of Technology  
Civil Engineering  
*Dr. Aris Georgakakos*

Antonio J. Miranda  
University of California at Berkeley  
Electrical Engineering  
*Dr. G. Casinovi*

Kim Newman  
Georgia Institute of Technology  
Electrical Engineering

Christina Olson  
Georgia Institute of Technology  
Industrial Engineering  
*Dr. Paul Griffin*

Robert S. Pierce  
Georgia Institute of Technology  
Mechanical Engineering

Jere Carl Richardson  
Georgia Institute of Technology  
Civil Engineering  
*Dr. Paul W. Mayne*

Erik M. Ritenour  
Georgia Institute of Technology  
Mechanical Engineering  
*Dr. W. Wepfer and Dr. G. Colwell*

Phillip B. Russell  
Stetson University  
Law  
*Dr. Jackie Kleiner*

Jonathan E. Schubarth  
Georgia Institute of Technology  
Environmental Engineering

Fidencio Tapia  
Georgia Institute of Technology  
Aerospace Engineering  
*Dr. D. Schrage*

Pamela Webb  
Georgia Institute of Technology  
Mathematics  
*Dr. Anca Deliu*

Erol Yurtkuran  
Georgia Institute of Technology  
Electrical Engineering

## MASTER'S DEGREE RECIPIENTS

---

### MASTER OF SCIENCE

Michael Bruce Allen II  
*Textiles*

William George Baum III  
*Civil Engineering*

Arindam Bose  
*Aerospace Engineering*

Bertrand Boussert  
*Electrical Engineering*

Eric Jawara Campbell  
*Electrical Engineering*

Sheau-Miin Chang  
*Textile Engineering*

Yoon Young Chung  
*Aerospace Engineering*

Jeffry Scott Coble  
*Industrial Engineering*

Cora J. Cook  
*Civil Engineering*

Edward Gerard Crowther  
*Industrial Engineering*

Rhonda Phillips Culp  
*Economics*

Philippe Paul De Backer  
*Electrical Engineering*

Ali F. Gebril  
*Civil Engineering*

Kasra Ghaffari  
*Mechanical Engineering*

John St. Clair Godfrey  
*Industrial Engineering*

Gary Anthony Guzzetta  
*Industrial Engineering*

Olaf Hädrich  
*Electrical Engineering*

Russell Blair Haga  
*Electrical Engineering*

Mark Andrew Hale  
*Aerospace Engineering*

Stephen Scott Hardaker  
*Textile Engineering*

Dacheng Huang  
*Electrical Engineering*

James J. Huang  
*Electrical Engineering*

Alan Wayne Kersten  
*Psychology*

Bryan C. Khamvongsa  
*Textile Chemistry*

Ubaid R. Khan  
*Electrical Engineering*

Merrick Frank Kossack  
*Industrial Engineering*

Jonas Bennett Lamis  
*Industrial Engineering*

June Yonghong Li  
*Civil Engineering*

Russell Chao Lu  
*Electrical Engineering*

John Carl Magill  
*Electrical Engineering*

Lori A. Mann  
*Electrical Engineering*

Margarita Sarah Morgulis  
*Industrial Engineering*

Werner Bryan Nasser  
*Electrical Engineering*

Habib Nehme  
*Electrical Engineering*

Thierry Pierre Nouza  
*Electrical Engineering*

Valentine Asongu Nzengung  
*Civil Engineering*

Tetsuyuki Ogawa  
*Aerospace Engineering*

Joonwon Park  
*Textiles*

Roy Andrew Partain  
*Economics*

Timothy Lee Roden  
*Electrical Engineering*

Phillip Byron Russell  
*Economics*

Khalil Shujaee  
*Aerospace Engineering*

Chris Norwood Simons  
*Civil Engineering*

Matthew William Stefaniw  
*Electrical Engineering*

Kenneth Michael Stewart II  
*Electrical Engineering*

Kathryn Howe Taft  
*Industrial Engineering*

Brian K. Talbot  
*Textile Engineering*

Michael William Talbot  
*Textiles*

Fidencio Tapia Rodriguez  
*Aerospace Engineering*

Jennifer Rae Taylor  
*Textile Engineering*

Sukasem Tejatanalet  
*Textile Chemistry*

Christopher Dara Touch  
*Electrical Engineering*

Gregory Scott Warren  
*Electrical Engineering*

Bernhard Josef Weiss  
*Civil Engineering*

James Andrew Williams  
*Industrial Engineering*

## **MASTER OF SCIENCE IN POLYMERS**

Jim McRae Criss  
Raghavan Govindarajan  
Suneer Vipin Patel  
Mohsen Sahafeyan

## **MASTER OF SCIENCE IN STATISTICS**

Hisham Ahmad Al-Mharmah  
Cynthia Margaret Cady  
Brady L. Daniels

## **MASTER OF SCIENCE IN TECHNOLOGY AND SCIENCE POLICY**

Earl LeRoy Babbitt III  
Jeffrey Frazer Luck  
Robert Paul Roggenkamp  
Aristotelis Tympas

## **MASTER OF SCIENCE IN HEALTH PHYSICS**

Edgard Jacques Abou-Jaoude  
Nazih S. Chbeir  
Paul H. Chung  
Mark Gerard Haenchen  
Muffin Louise Blakeney Harmer  
Debra Jeanne Hillman  
Jane McElrath Lunceford  
Benjamin W. Morgan  
Mary Elizabeth Napolitano  
Edward Jay Newbauer  
Sandy Jo Riahi  
Robert Wayne Simpkins  
Cynthia Denise Townsend  
Jeffrey Scott Yakoubian

## **MASTER OF SCIENCE IN HEALTH SYSTEMS**

Russell John Gavron, Jr.  
Bill E. Leech, Jr.

## **MASTER OF SCIENCE IN COMPUTER SCIENCE**

Molham Aref  
Asquith Albert Bailey  
Jason Timothy Black  
Michael George Goldsman  
Ikjoo Han  
Howard Clinton Higley  
Gena R. Hillhouse  
Gordon Zev Hirsch  
Ulysses Hollimon, Jr.  
Raymond Wayne Johnson

Kimberly King Kizirian  
Cheryl Dee Krupczak  
Peter Angelos Patsis  
Gerald P. Shea  
Carol Yvette Tolbert

**MASTER OF SCIENCE IN  
NUCLEAR ENGINEERING**

Harold E. Baumberger  
Mark George Kowal

**MASTER OF SCIENCE IN  
PSYCHOLOGY**

Mark Alan Jacobson  
Ronald Michael Wachman

**MASTER OF SCIENCE IN  
ENGINEERING SCIENCE AND  
MECHANICS**

Douglas Allen Bruttomesso  
Jonathan Devan Sherrill  
Richard Whitney Whitcomb

**MASTER OF SCIENCE IN  
APPLIED MATHEMATICS**

Ivy La-Shaun Boggs  
Benjamin Joseph Elkins  
Pamela Batten Webb

**MASTER OF SCIENCE IN  
OPERATIONS RESEARCH**

Wynand Crawford DePuy  
Kevin Randolph Gue  
Greg W. Hunt  
Allan Stuart Mackinnon, Jr.  
Steven Paul Querido  
Julie Elaine Simmons  
William Hill Swearingen  
Timothy Paul VanVoorhis

**MASTER OF SCIENCE IN  
INDUSTRIAL ENGINEERING**

Timothy Roy Anderson  
Suzanne Janet Dilley  
Matthew Thomas Enright  
Timothy Gerard Goddette  
Deirdre Lynelle Grayson  
Edward Gordon Hindy  
Lori Renee Johnson  
Puneet Kohli  
Jeffrey Kenneth Lee  
Augustin Joseph Mason  
Victor Hosea Moses  
Mark Andrew Natter  
Raymund Patrick F. Navarro  
Christy Stacey Ogletree  
John Jacob Owen III

James David Rose  
Michael John Valletutti  
Cuneyt Vanli  
Catherine Marie Weaver  
Robert Hans Wilke  
Carolyn Lea Wingfield

**MASTER OF SCIENCE IN  
PHYSICS**

Kenneth B. Brown  
Lee Elwyn Harrell  
Darlene Louise Hart  
Angela Hohl  
Jimmie Greene McEver III

**MASTER OF SCIENCE IN  
MANAGEMENT**

Jose Alfredo Clavier  
Gregory Charles Hendry  
Wai-Yan Lam  
Andrew Farley Olander

**MASTER OF SCIENCE IN  
AEROSPACE ENGINEERING**

Dragos Stefan Dancila  
Victor Donge  
Brett Ian Eichler  
Hamidi Halim  
Steven John Kulm  
Michael Bryan McFarland  
Bruce David Savage  
J. Eric Schmirler

**MASTER OF SCIENCE IN  
CERAMIC ENGINEERING**

Jean Buckingham-Whited  
Michael Martin Ellis  
Amy Sue Jensen  
Jong-Heon Lee  
Lara Audreen Touryan

**MASTER OF  
ARCHITECTURE**

Antonio José Aguilar  
Mark Frederick Arnold  
Jane Ann Barrett  
Chris Leon Butler  
Chaneel Marie Callwood  
James Andrew Crenshaw  
Rhea Shannon Darley  
Leslee Cagnion Evans  
Mary James Evans  
Robert Jennings Fountain  
Gregory Lyn Garcia Riley  
Walter Gebhardt  
Cynthia Lynn Hammond  
Curtis Stewart Jaunsen

Michael David Jones  
Astrid Kantzenbach  
John Russell Lauer  
Karen Mole  
Hung Shar  
William Wilson Stelten  
Carl Patrick Steuer  
Alan James Venable  
Robert Bruce Wise  
John Carter Woollen

**MASTER OF  
CITY PLANNING**

Katherine Wun Yee Lai  
Bonnie J. Mandel  
Chris Norwood Simons

**MASTER OF SCIENCE IN  
CHEMISTRY**

Judy Katherine Barnett  
Jeffry Alexander Jones  
DeAwna Raquel McMahon  
Annia I. Ruiz  
Melissa Anne Saylor  
Sheryl Kaye Wallace

**MASTER OF SCIENCE IN  
METALLURGICAL ENGINEERING**

Laura Lucio Dollar  
Christine Marie Lance  
Andrew Farley Olander  
William Thomas Whited

**MASTER OF SCIENCE IN  
CHEMICAL ENGINEERING**

Mohan Ganesan  
Srinath Reddy  
Kenneth Lawrence Roberts  
G. Ravi Srinivas

**MASTER OF SCIENCE IN  
TEXTILES**

Brian Jay Failor

**MASTER OF SCIENCE IN  
TEXTILE CHEMISTRY**

Lee John Berry

**MASTER OF SCIENCE IN  
TEXTILE ENGINEERING**

Yin Zhou

**MASTER OF SCIENCE IN  
ENVIRONMENTAL ENGINEERING**

Karim Shafe' Assaf  
Brett Alden Blackwelder

Harold Allen Davis  
Paul Jeffrey Delphos  
Gregory Scott Dyson  
Hans X. Figueroa-Sweet  
Andrew Harvey Klein  
Kenneth Elvert Lemons  
Bert Pearce  
John Anthony Pierson  
Ann Katherine Harrell Shumate  
Carrie Louise Weisse  
Michael Patrick Whelan

**MASTER OF SCIENCE IN  
CIVIL ENGINEERING**

Muhammad Naveed Akhtar  
Brent Jon Bandy  
Thomas William Barr  
Douglas Neil Brown  
Luis Santiago Casado  
Nina Ming-Huei Chou  
Joey Lawrence Christmas  
Jose Alfredo Clavier  
Fabienne Derain  
Amro Mohamed Elakkad  
Thomas Henry Fass  
Paul William Feist  
Nimesh Rameshchandra Gajjar  
Bill Golden  
Benjamin D. Grove, Jr.  
Mazhar Hajhossein  
Dean Earl Harris  
Nahm Ho Lee  
Elizabeth Anne Leipski  
Orlando R. Méndez Monserrate  
Mohammed Moinuddin  
Marilyn Joyce Moore-Lowther  
Clay Daniell Reichert  
Thomas Kearney Saad  
Bruce Anthony Schmith  
Michael Roy Wild  
Walter Brandon Winzurk

**MASTER OF SCIENCE IN  
ELECTRICAL ENGINEERING**

Gregory Lamont Allen  
Odis Dale Amason, Jr.  
John Emery Ball  
Andrew Barton Barclay  
Edwin Espanola Bautista  
Nathan Louis Bernbaum  
Chetanand Bhaugeerutty  
Ramin Borazjani  
Steven Martin Broome  
Mea Rene Butler  
Randall Lewis Carver  
Frédérique Chantal Cesbron  
Margaret Elise Chandler  
Kwok Chi Cheng

Jeffrey Alvin Connelly  
Alen Docef  
Charles Randall Dollar II  
James David Edwards  
Yun-Hui Fan  
Michael Dennis Haggerty  
Kelvin C. Hawkins  
Gregory Charles Hendry  
Mel Greenway Johnson  
Farrukh Kamran  
Abdul Khaliq  
Yuan Luo  
Waqar Mahmood  
Jeffrey James McCoskey  
Brian The Ngo  
Patrick George O'Farrell  
Michael James O'Connor  
Jose Ortemio Perez  
Dilip Bhikha Patel  
Robert Wayne Pickell  
Walter Kenneth Pitt  
Haroon Rafique  
Byron L. Reams  
Daniel Martin Shamanski, Jr.  
Orden Erroldo Smith  
Iraj Sodagar  
Jose Luis Souto Cañellas  
Latrice Marie Spaugh  
Mubin Sun  
Hugh Blake Svendsen  
William Warren Whitfield  
Kenneth Edward Wojciechowski  
Eugene Franklin Wood, Jr.  
Scott Fosson Woods  
Jason Brett Woodward  
Ernest Jose Zamora

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

James Edgar Abbey  
Steven Jon Alfred  
Mary Katrina Baldwin  
Robert Stanley Blenis, Jr.  
Michael John Bolander  
Trent Christopher Boneau  
Mark Douglas Campbell  
Charles Edward Carter  
Barry Todd Cease  
Mary Noelle Currey  
Brian James Driessen  
Leopold Tsung Te Fan  
Elizabeth Fennell  
Walter Garcen  
Edward Gonsalves Sosa  
Kit William Grabbe  
Bryan Eric Gross  
Alphonso Lamott Hall  
Suzanne Elizabeth Hall-Johnson  
Philip Wei Hu  
Gintautas Bronius Jazbutis  
Benjamin Clifford Lemon, Jr.  
Kris Hamilton Lillibridge  
John Michael Ludden  
Calvin Mackie  
Calvin Joel Martin  
Robert Scott Pierce  
Valerie Denise Poindexter  
Phillip J. Rush  
Eric Michael Schneider  
Daniel Joseph Shabo  
George Ronald Smith  
Anthony J. Stevens  
Monica Anne Thacker  
James John Wentz  
Kyle Fitzgerald Wicker  
Nathan Lee Wood

## DOCTORAL DEGREE CANDIDATES

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### DOCTOR OF PHILOSOPHY ARCHITECTURE

Bettye R. Connell

Thesis: "Elopement' Opportunities Among  
Dementia Patients in Nursing Homes:  
Architectural Considerations"

Adviser: Dr. J. C. Archea

Olugbemiga A. Olatidoye

Thesis: "Design-oriented Graphic-User-  
Interface"

Adviser: Dr. W. E. Rodriguez

Kendra S. Smith

Thesis: "A New View of Architectural  
Sketches"

Adviser: Dr. M. Frascari

### DOCTOR OF PHILOSOPHY TEXTILE ENGINEERING AND SCIENCE

Bruce E. Wade

Thesis: "Boron Nitride Fibers from Polymer  
Precursors"

Advisers: Dr. A. S. Abhiraman and  
Dr. P. Desai

### DOCTOR OF PHILOSOPHY COMPUTER SCIENCE

Martin H. Davis, Jr.

Thesis: "Optical Waveguides in General  
Purpose Parallel Computers"

Adviser: Dr. U. Ramachandran

Kamalakar Karlapalem

Thesis: "Redesign of Distributed Relational  
Data Bases"

Adviser: Dr. S. B. Navathe

Joel D. Martin

Thesis: "Direct and Indirect Transfer:  
Explorations in Concept Formation"

Adviser: Dr. D. O. Billman

Erika Rogers

Thesis: "Visual Interaction: A Link Between  
Perception and Problem Solving"

Adviser: Dr. R. C. Arkin

Asterio K. Tanaka

Thesis: "On Conceptual Design of Active  
Data Bases"

Adviser: Dr. S. B. Navathe

Mary Jane Willshire

Thesis: "The Effects of Inheritance on the  
Properties of Physical Storage Models in  
Objects Oriented Data Bases"

Adviser: Dr. K. Schwan

### DOCTOR OF PHILOSOPHY MATHEMATICS

Mingxiang Chen

Thesis: "Structural Stability for Time-Periodic  
Systems"

Adviser: Dr. S. L. N. Chow

### DOCTOR OF PHILOSOPHY INDUSTRIAL AND SYSTEMS ENGINEERING

Kuo-Hwa Chang

Thesis: "Extreme Queues and Stationarity of  
Heavy-Traffic Service Systems"

Adviser: Dr. R. Serfozo

James A. Howell

Thesis: "An Analysis of Speculator Behavior  
and the Dynamics of Price in a Futures  
Market"

Adviser: Dr. W. R. Fey

Anuj Mehrotra

Thesis: "Constrained Graph Partitioning:  
Decomposition, Polyhedral Structure, and  
Algorithms"

Adviser: Dr. G. L. Nemhauser

Antonio C. Moretti

Thesis: "A Technique for Finding the Center  
of a Polytope"

Adviser: Dr. E. R. Barnes

Jaeyoung Park

Thesis: "Performance Measures for Carousel  
Storage/Retrieval Systems"

Adviser: Dr. R. D. Foley

Erick D. Wikum

Thesis: "One-Machine Generalized  
Precedence Constrained Scheduling"

Advisers: Dr. D. C. Llewellyn and  
Dr. G. L. Nemhauser

Mirng Bih Yang

Thesis: "A Financial System for Capital  
Investment Decisions in a Manufacturing  
Environment"

Adviser: Dr. G. J. Thuesen

### DOCTOR OF PHILOSOPHY PHYSICS

Larry Fabiny

Thesis: "Dynamics of a Coupled Solid-state  
Laser Array"

Adviser: Dr. R. Roy

Wolfgang J. Mantke  
Thesis: "*Quantum Action Principle*"  
Adviser: Dr. D. Finkelstein

James L. Mercer, Jr.  
Thesis: "*New Binding Models for Elemental Semiconductors*"  
Adviser: Dr. M.-Y. Chou

Guosheng Tan  
Thesis: "*Raman Spectroscopy Studies of the Influence of cAMP on the Structure of the cAMP Receptor Protein (CRP)*"  
Adviser: Dr. R. M. Wartell

#### DOCTOR OF PHILOSOPHY PSYCHOLOGY

Jeffrey M. Gerth  
Thesis: "*Performance-based Refinement of a Synthetic Auditory Ambience: Identifying and Discriminating Auditory Sources*"  
Adviser: Dr. G. M. Corso

Christopher R. Hale  
Thesis: "*Effects of Background Knowledge on Associative Learning in Causal Domains*"  
Adviser: Dr. L. W. Barsalou

Jeffrey G. Morrison  
Thesis: "*The Effects of Display and Response Codes on Information Processing in an Identification Task*"  
Adviser: Dr. G. M. Corso

#### DOCTOR OF PHILOSOPHY AEROSPACE ENGINEERING

Lakshmana Nagesh Babu Gummadi  
Thesis: "*Active Control of Delaminations in Smart Composite Structures*"  
Adviser: Dr. S. V. Hanagud

Azhar M. Khan  
Thesis: "*Helicopter Mission and Rotor Performance Optimization with Quasi-Linear Inflow Theory*"  
Adviser: Dr. D. A. Peters

Jian Li  
Thesis: "*Interlaminar Fracture Analysis for Laminated Composite under Combined Loading*"  
Adviser: Dr. E. A. Armanios

Ashish K. Sareen  
Thesis: "*Rotorcraft Airframe Structural Optimization for Vibration and Dynamic Stress Reduction Including Damping Treatment*"  
Adviser: Dr. D. P. Schrage

#### DOCTOR OF PHILOSOPHY CERAMIC ENGINEERING

Yong-Sun Chung  
Thesis: "*In-Situ Deposition of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Superconducting Films by Aerosol Decomposition in a Plasma Enhanced Chemical Vapor Deposition Reactor*"  
Adviser: Dr. D. N. Hill

#### DOCTOR OF PHILOSOPHY CHEMISTRY

Katherine R. Edman  
Thesis: "*Studies in Particle Dynamics of the Particle Beam Interface*"  
Adviser: Dr. R. F. Browner

Lilia C. Harvey  
Thesis: "*I. Excited State Proton Transfer in Ortho-Substituted Naphthols. II. Mechanistic Studies of Ortho Allyl-Naphthol Photocyclizations*"  
Adviser: Dr. L. M. Tolbert

Jay T. Holt  
Thesis: "*1,8-Diarylanthracenes as Reagents for Asymmetric Synthesis*"  
Adviser: Dr. H. O. House

Songman Hsu  
Thesis: "*Oxidation and Reduction Studies of Polyphenylene Sulfide and Its Model Compounds*"  
Adviser: Dr. L. M. Tolbert

Leigh Ann Lipscomb  
Thesis: "*Studies of Metalloporphyrins by Advanced Laser Raman Techniques*"  
Adviser: Dr. N.-T. Yu

Ghana S. Warshamana  
Thesis: "*Interaction of T7 RNA Polymerase with Its Promoters*"  
Adviser: Dr. R. A. Ikeda

#### DOCTOR OF PHILOSOPHY CHEMICAL ENGINEERING

Steven R. Alexander  
Thesis: "*Electrochemical Removal of H<sub>2</sub>S from Fuel Gas Streams*"  
Adviser: Dr. J. Winnick

Henri A. Brittain  
Thesis: "*Adherence of Sickle Red Cells to Human Microvascular Endothelium Cells: The Role for Plasma, von Willebrand Factor, and Platelet Thrombospondin*"  
Adviser: Dr. T. M. Wick

Mitchell J. Hait  
Thesis: "*Measurement and Prediction of Infinite Dilution Properties in Nonionic Solutions*"  
Adviser: Dr. C. A. Eckert

Peter W. Hart

Thesis: "Formation and Release of Absorbable Organic Halides During Kraft Pulp Bleaching"

Adviser: Dr. J. S. Hsieh

## DOCTOR OF PHILOSOPHY CIVIL ENGINEERING

Sung Yong Back

Thesis: "A Shear-flexible Finite Element Model for Lateral-torsional Buckling Analysis of Thin-walled Open Beams"

Adviser: Dr. K. M. Will

Shahram Malek

Thesis: "EASINET: A Procedural Package for Development and Analysis of Intersection Control Strategies"

Adviser: Dr. P. S. Parsonson

Jean-Paul Pinelli

Thesis: "Development of Energy Dissipating Cladding Connections for Passive Control of Building Seismic Response"

Adviser: Dr. B. J. Goodno

## DOCTOR OF PHILOSOPHY ELECTRICAL ENGINEERING

Anwar Al-Yatama

Thesis: "Quantization and Routing in Broadband Networks"

Adviser: Dr. C. T. Lea

Kurt Baudendistel

Thesis: "Compiler Development for Fixed-point Processors"

Adviser: Dr. J. H. McClellan

Bryce A. Curtis

Thesis: "A Special Instruction Set Multiple Chip Computer for DSP: Architecture and Compiler Design"

Adviser: Dr. V. K. Madiseti

Brian T. Kelley

Thesis: "VLSI Computing Architectures for High-speed Seismic Migration"

Adviser: Dr. V. K. Madiseti

Intaek Kim

Thesis: "A Hybrid Analytical/Intelligent Methodology for Sensor Fusion"

Adviser: Dr. G. Vachtsevanos

Min Luo

Thesis: "Perturbation Analysis and Optimization of Fork-Join Queueing Networks"

Adviser: Dr. Y. Y. Wardi

James G. Maloney

Thesis: "Analysis and Synthesis of Transient Antennas Using the Finite-Difference Time-Domain (FDTD) Method"

Adviser: Dr. G. S. Smith

Kathleen C. Maloney

Thesis: "Analysis, Synthesis, and Recognition of Stressed Speech"

Adviser: Dr. M. A. Clements

Tandhoni S. Rao

Thesis: "Noncausal Methods and Models for Image Processing"

Adviser: Dr. R. M. Mersereau

Axel Thomsen

Thesis: "High-speed, High-accuracy Signal Processing with Parallel Analog Circuits"

Adviser: Dr. M. A. Brooke

Robert E. Troxler

Thesis: "Magnetic Control of Superconducting Phase-Shifters with Experimental Verification"

Adviser: Dr. G. P. Rodrigue

Kwan K. Truong

Thesis: "Vector Quantizer Design for Images and Video Based on Hierarchical Structures"

Adviser: Dr. R. M. Mersereau

## DOCTOR OF PHILOSOPHY MECHANICAL ENGINEERING

Bipin Chadha

Thesis: "An Information Driven Approach to Design/Manufacturing Integration"

Adviser: Dr. R. E. Fulton

Pingping Ma

Thesis: "The Role of Fluid Flow and Mass Transfer on Atherosclerosis in the Human Carotid Bifurcation"

Adviser: Dr. D. N. Ku

Barbara N. McCord

Thesis: "Fatigue of Atherosclerotic Plaque"

Adviser: Dr. D. N. Ku

James G. McDaniel

Thesis: "A Higher-Order Shell Theory for the Dynamic Response of a Viscoelastically Coated Circular Cylindrical Shell with Heavy Fluid Loading"

Adviser: Dr. J. H. Ginsberg

Ronald B. Roth

Thesis: "An Experimental Investigation and Optimization of a Variable Reluctance Spherical Motor"

Adviser: Dr. K.-M. Lee

---

Thomas Jungwoog Shin  
Thesis: "*The Mechanical Properties of the Human Cornea*"  
Adviser: Dr. R. P. Vito

Shin-Chen Su  
Thesis: "*Parallel Subdomain Method for Massively Parallel Computers*"  
Adviser: Dr. R. E. Fulton

Heechun Yang  
Thesis: "*Modeling the Processing Science of Thermoplastic Composite Tow Prepreg Materials*"  
Adviser: Dr. J. S. Colton

Jinghan Ye  
Thesis: "*Quantitative TC-99M Myocardial Perfusion Spect With 180° Acquisition*"  
Adviser: Dr. K. J. Kearfott

**N. JAN DAVIS, PH.D.**  
Commencement Speaker

Dr. N. Jan Davis is an astronaut with the National Aeronautics and Space Administration (NASA). She is qualified as a mission specialist on Space Shuttle flight crews, and made history on the September 1992 Space Shuttle mission as a partner of the first married team to enter space together. She is also a Georgia Tech alumna.

Dr. Davis launched her higher education at Georgia Tech, where she received a B.S. in Applied Biology in 1975. In 1977, she earned a B.S. in Mechanical Engineering from Auburn University. She later returned to her hometown of Huntsville, Alabama, to earn a M.S. and Ph.D. in Mechanical Engineering from the University of Alabama in 1983 and 1985, respectively.

After graduating from Auburn University in 1977, Dr. Davis joined Texaco in Bellaire, Texas, as a petroleum engineer working in the area of tertiary oil recovery. She left Texaco in 1979 to work for NASA's Marshall Space Flight Center as an aerospace engineer. In 1986, she was named a team leader in the Structural Analysis Division of a group responsible for the structural analysis and verification of the Hubble Space Telescope (HST), the HST Maintenance Mission, and the Advanced X-Ray Astrophysics Facility. The following year, she was designated lead engineer for the redesign of the Solid Rocket Booster external tank attach ring. In June 1987, she became an astronaut.

Her initial technical assignment was in the Astronaut Office Mission Development Branch, where she provided technical support for the Tethered Satellite System, the Italian Upper Stage, the PAM Upper Stage, and Spacelab missions. She then served as a capsule communicator (CAPCOM) in Mission Control.

She was mission specialist on STS-47, Spacelab-J, the 50th Space Shuttle mission. Launched on September 12, 1992, this cooperative venture between the United States and Japan conducted 43 experiments in life sciences and materials processing. During the eight-day mission, Dr. Davis was responsible for operating Spacelab and its subsystems and performing a variety of experiments. Her fellow crew member was husband and astronaut Mark Lee. After completing 126 orbits of the Earth, STS-47 Endeavor landed at Kennedy Space Center on September 20, 1992.



Dr. Davis is the recipient of the Marshall Space Flight Center Director's Commendation, three NASA Special Service Awards, NASA Fellowship for Full-Time Study, and ASME National Old Guard Prize. She is a Fellow of the American Society of Mechanical Engineers and a member of Tau Beta Pi, Omicron Delta Kappa, Pi Tau Sigma, and Alpha Xi Delta.

Her current assignment is to serve on the crew of STS-60, scheduled for November 1993.

## COLLEGE OF COMPUTING

Recognizing that computing is now critical to modern society, Georgia Tech has created the new College of Computing to provide academic and intellectual leadership in this important discipline.

Having evolved from a School of Information and Computer Science founded in 1963, the College of Computing was established in fall 1990, with the scholarship of the National Science Foundation. It has an academic faculty of 39, a research faculty of 20, and an enrollment of more than 100 Ph.D. students, approximately 100 M.S. students, and 500 undergraduate students. The intellectual enterprise of the College includes among its goals the further development of a fundamental science and technology of computing; the enhancement of human problem-solving ability by designing novel information processing systems; and the expansion of the functions of such systems into new areas of society.

Prominent alumni of this program include Edith M. Martin ('76, '80), vice president and chief information officer, Intelsat; Barry Folsom ('72), president and CEO, Radius Inc.; James Allchin ('83), vice president of advanced systems, Microsoft Corporation; Yousef Khalidi ('85), senior staff engineer, Sun Microsystems; and Carl Eikhoff ('73), president, Magnum Communications.

As part of the technological university for the twenty-first century, the College will provide Georgia Tech with a focal point that can help the state, region, and nation develop critically needed leadership in computing.

## IVAN ALLEN COLLEGE OF MANAGEMENT, POLICY, AND INTERNATIONAL AFFAIRS

In 1969, the School of Industrial Management became the College of Management. In 1989, the Ivan Allen College of Management, Policy, and International Affairs was formed—a unique configuration of schools that links management education with the humanities, social sciences, and foreign languages. Total undergraduate enrollment in the Ivan Allen College as of fall 1991 was 1,329.

Outstanding alumni from the schools and departments in the Ivan Allen College include David C. Garrett ('55), former chairman of the board, Delta Air Lines; James D. Robinson ('57), chairman, American Express Company; Cecil B. Day ('58), founder of Days Inn of America; Charles W. Brady ('57), chairman of Invesco Capital Management; John P. Imlay, Jr., ('59), chairman of Management Science America; and Sam Nunn ('60), U.S. Senator from Georgia.

The Ivan Allen College houses Classroom 2000, a showcase teaching facility established with a grant from Apple Computer, and the Center for International Strategy, Technology, and Policy. This center provides timely answers to clients in the business and public sectors who have questions regarding investment, risk, development, and defense matters. Other areas of active research include marketing, accounting, finance, organizational behavior, operations, management, management of technology, information technology, international management, applied economics, and the history of technology.

## COLLEGE OF ARCHITECTURE

The School of Architecture became the College of Architecture in 1975. As of fall 1991, undergraduate enrollment totaled 645 for the College.

Prominent alumni of the College of Architecture include George Heery ('50), chairman of the board, Heery International, Inc. and designer of the Coca-Cola Building and the Atlanta-Fulton County Stadium; John Portman ('50), John Portman and Associates, designer of Peachtree Center, the Hyatt Regency, Atlanta, the Marriott Marquis, and the Westin Peachtree Plaza; Hugh A. Stubbins, Jr. ('33), chairman and CEO, The Stubbins Associates, Inc., designer of the Citicorp Building in New York City and the Ronald Reagan Presidential Library; and John A. Busby ('56), Jova Daniels Busby, Architects, and past president of the national American Institute of Architects.

Research programs in the College of Architecture include the Center for Rehabilitation Technology, where research is conducted on devices that assist disabled persons in work, home, and community environments; the Center for Architectural Conservation, which assists the National Park Service with methods for managing cultural resources; and the Construction Research Center, which studies materials and methods in the construction industry.

The College also includes the Department of Music and the newly created Division of Fine Arts.

## COLLEGE OF SCIENCES

The College of Sciences was established from the College of Sciences and Liberal Studies (previously known as the General College) as a consequence of the academic reorganization of 1990. The sciences have had a rich history at Georgia Tech from the very beginning of the institution in 1888. Under the stewardship of leaders such as Gilbert Boggs, head of the chemistry department, research was an expected component of undergraduate education and faculty involvement. That heritage still persists in the undergraduate and graduate programs in the College of Sciences today. Total enrollment in the College as of fall quarter 1991 was 797 undergraduate students.

In 1906 the School of Chemistry was established in order to grant degrees in chemistry. This was followed by the establishment of the School of Physics (1939), Mathematics (1952), Psychology (1959), Biology (1960), and Earth and Atmospheric Sciences (1970), previously the School of Geophysical Sciences. The Department of Physical Education and Recreation, with clear distinction between skill activities and academics, recently became the Department of Health and Performance Sciences. These seven units comprise the newly established College of Sciences.

The College plays a central role in general education at Georgia Tech through its offering of introductory courses in sciences and mathematics. Its specialized courses lead to degrees in the various scientific, mathematical, and technological disciplines and a number of newly developed interdisciplinary programs. The College has traditionally been a leader in graduate education of Ph.D. students in the sciences. The tradition of research and research publications involving students is one of the highlights of the College.

## COLLEGE OF ENGINEERING

Eighteen eighty-eight marked the opening of the Institute and the establishment of the School of Mechanical Engineering. As of fall 1991, the College had a total undergraduate enrollment of 6,271.

Outstanding alumni of the College of Engineering include Robert B. Ormsby ('45), president, Lockheed Corporation-Aeronautical Systems Group; astronauts John Young ('52), and Richard Truly ('59); Dillard Munford ('39), chairman and CEO of Atlanta based Munford, Inc., which controls over 800 Majik Market stores; Ronald Wayne Allen ('64), chairman and CEO of Delta Air Lines; C. J. (Pete) Silas ('53), chairman and CEO of Phillips Petroleum Co.; Thomas J. Malone ('63), president and CEO, Milliken and Company; Malcolm T. Stamper ('46), vice chairman of the board, Boeing Company; and former President Jimmy Carter ('46).

Georgia Tech consistently ranks among the top five schools in the country in graduating bachelor-level engineering graduates. Undergraduate and graduate students' education, in addition to faculty learning and research, are enhanced in the College through exposure to the most up-to-date laboratory equipment.

## ATHLETICS

The Athletic Department emphasizes teamwork, individual ability, and skill as well as encouraging competition and placing winning in the proper perspective.

At Tech, academics and athletics truly do mix, and the Institute is rich in both traditions. Georgia Tech competes on the NCAA Division I level within the nine-member Atlantic Coast Conference, a league which places high emphasis on academics. Memorable alumni include Robert Tyre "Bobby" Jones, 1930 winner of golf's Grand Slam; Olympic gold medalist Antonio McKay, track; Mark Price and John Salley, basketball; and 12 members of the National Football Foundation's College Football Hall of Fame.

Tech athletes have been led by legendary coaches such as R. L. "Bobby" Dodd, 1946-66; John W. Heisman, 1903-19; William Alexander, 1920-45; and John "Whack" Hyder, 1952-73. New leaders stand out under the direction of Dr. Homer Rice, athletic director; Bobby Cremins, basketball; Jim Morris, baseball; Agnus Berenato, women's basketball; William "Puggy" Blackmon, golf; and Bill Lewis, football.

Not everyone can compete in intercollegiate athletics, which is why intramural sports are available to all students. More than 20 activities, ranging from swimming to weight training, are offered. The multipurpose Fuller E. Callaway III Student Athletic Complex houses most of the intramural activities.

## GEORGIA TECH RESEARCH INSTITUTE

Georgia Tech Research Institute (GTRI) is an integral part of Georgia Tech, operating as a nonprofit, applied research organization. It performs investigations in engineering, science, computer technology, and economic development for a variety of sponsors including federal, state, and local government agencies, industrial firms, and private organizations.

The purpose of GTRI, as chartered by the Georgia legislature, is to serve the community, state, and the nation. Its mission includes participating in national programs of science, technology, and preparedness; developing Georgia's natural resources; aiding in industrial and economic development; furnishing technical advice and assistance to business and industry; providing a statewide, industrial extension service; and conducting scientific research. GTRI employs approximately 1,500 people including nearly 700 full-time support personnel. The remaining employees are students, academic faculty, and consultants who participate in the research program on a part-time basis.

## LIBRARY AND INFORMATION CENTER

Information is integral to learning, teaching, and research. The Georgia Tech Library functions as a client-oriented information center focusing on the data and information needs of students, faculty, and staff. In addition, the Library provides a rich learning environment where students may study, investigate, and enhance their learning experiences.

The first Library of Georgia Tech was established in 1899 and consisted of a room in the Administration Building housing less than 2,000 volumes. Now the Library contains over 2.5 million volumes, a complete collection of U.S. patents, over 2 million technical reports, government documents, and industrial standards.

The explosion of scientific and technical information and the advent of computing, networking, and multimedia technologies are the foundation of the evolution of the Library from a building of books to a learning and information center. The Library was the first in the nation to provide local on-line information retrieval capabilities. The Georgia Tech Electronic Library (GTEL) offers a variety of data bases to students and faculty for research, class assignments, and personal information. These facilities are complemented by a video tape viewing room where students may view material to supplement their classroom assignments or view entire courses for personal enrichment.

The Georgia Tech Library Archives contain books, papers, manuscripts, and other items describing the history of Tech and the contributions of its history makers. The Library has a special responsibility to preserve the history of science and technology. The rare books and medals collections are part of that important preservation effort.

## THE MACE

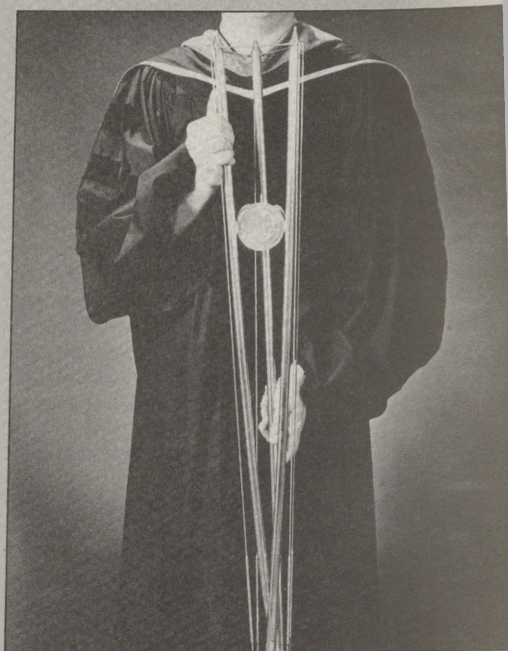
In academic ceremonies, the mace is an ornamental staff carried as a symbol of authority. The office of the mace bearer, though purely ornamental, dates back to medieval England when special occasions required the use of a bodyguard. In colonial America, the mace became a symbol of office when used in conjunction with academic regalia.

The Georgia Tech mace being carried in today's ceremony was designed by Cabell Heyward, a research scientist in the College of Architecture, and was first used in April 1988 at the presidential inauguration of John P. Crecine. The mace was made possible by a gift from the Georgia Tech Student Foundation and the Class of 1934. It is being carried by Uzi Landman, recipient of the 1992 Distinguished Professor Award.

The primary focus of the mace is its three brass rods, which demonstrate the principle of "tensegrity," a concept of structure combining tension and integrity developed by R. Buckminster Fuller in 1927. The integrity, or wholeness, of the mace is maintained by each of the rods being held in place by the tension of the steel wire; the rods do not touch one another at any point.

The brass rods symbolize the three primary components of Georgia Tech's mission: education, research, and service. The gold color of the brass and the white color of the steel wire represent Georgia Tech's colors. The mace also incorporates three silver metallic seals, which are reproductions of the official seal of the state of Georgia, the original seal of Georgia Tech, and the current seal of the Institute.

The mace was fabricated by Mr. Heyward and Arthur Schoenfeld, who are both from the Center for Rehabilitation Technology in the College of Architecture, in conjunction with Atlanta jeweler Robert Nagle.



## ACADEMIC REGALIA

The academic regalia worn by today's commencement participants is a colorful relic dating back to the Middle Ages, when education was a function of religious organizations. The monks' habit and the cowl worn over their heads were predecessors of the modern black gowns and hoods. The mortarboard worn by graduates developed from the skull caps worn during medieval days by churchmen officiating at religious services.

In 1894, American universities standardized gown styles for the three different types of degrees. Doctoral degree candidates wear the traditional black gown with full, round sleeves, velvet facings on the front, and velvet bars on the sleeves. Hoods are lined with the color of the university granting the degree. Hoods at Georgia Tech are lined in white and gold. The doctoral hood is distinguished by its blue trim, which is the color representing philosophy.

Master's degree candidates also wear the traditional black gown, with full-length square sleeves that have a crescent-shaped piece hanging from each sleeve. The master's hoods are also lined in white and gold and are distinguished on the outside by gold trim, the color of science. Recipients of the bachelor's degree at Tech wear a plain black gown and no hood.

Caps used by all Tech graduates are traditional mortarboard, and tassels are white and gold.

## ACADEMIC DEGREES

### The Bachelor's Degree

The bachelor's degree is the oldest academic degree used by institutions of higher education in America. This degree, which represents completion of a four-year course of study at the college level, was first awarded in 1642 to the graduating class of Harvard College.

### The Master's Degree

The master's degree represents the successful completion of one or two years of study beyond the baccalaureate degree. This academic honor, which dates back to the establishment of the oldest universities in Europe, usually requires a thesis and an oral examination.

### The Doctoral Degree

The doctoral degree is the most advanced academic degree conferred by American institutions of learning. "Doctor," which means teacher or instructor, was used as a title in the twelfth century to denote men of great learning. It was first used as an academic title at the University of Bologna in Italy.

## THE ALMA MATER

*Music by Frank Roman  
Words by I. H. Granath*

Oh, sons of Tech, arise, behold!  
The Banner as it reigns supreme,  
For from on high the White and Gold  
Waves in its triumphant gleam.  
The spirit of the cheering throng  
Resounds with joy revealing  
A brotherhood in praise and song,  
In memory of the days gone by.  
Oh Scion of the Southland!  
In our hearts you shall forever fly.

We cherish thoughts so dear for thee,  
Oh, Alma Mater in our prayer.  
We plead for you in victory,  
And in the victory we share!  
But when the battle seems in vain  
Our spirits never falter,  
We're ever one in joy or pain  
And our union is a lasting bond.  
Oh! May we be united  
Till the victory of life is won.

## THE RAMBLIN' WRECK

I'm a Ramblin' Wreck from Georgia Tech  
And a Hell of an engineer  
A helluva, helluva, helluva,  
Helluva, hell of an engineer.  
Like all the jolly good fellows,  
I drink my whiskey clear.  
I'm a Ramblin' Wreck from Georgia Tech  
And a hell of an engineer.

Oh! If I had a daughter, sir,  
I'd dress her in white and gold  
And put her on the campus  
To cheer the brave and bold.  
But if I had a son, sir  
I'll tell you what he'd do—  
He would yell "To Hell With Georgia"  
Like his daddy used to do.

Oh! I wish I had a barrel of rum  
And sugar three thousand pounds,  
A college bell to put it in,  
And a clapper to stir it 'round.  
I'd drink to all good fellows  
Who come from far and near.  
I'm a Ramblin', Gamblin'  
Hell of an engineer.

## COMMENCEMENT COMMITTEE

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Leonard Nagel, Coordinator, Commencement Reception/Luncheon

*White and gold ribbons on today's diplomas were hand-tied by disabled adult employees of the Bobby Dodd Center in Conyers, Georgia. Former Georgia Tech Coach Bobby Dodd was instrumental in securing funding for the vocational rehabilitation training facility that bears his name.*

