



Cullen College of Engineering

CONVOCATION
THURSDAY, DECEMBER 14, 2017





UNIVERSITY of HOUSTON

Letter from the President

December 2017

Dear University of Houston Graduates:

Congratulations on this most memorable day of your college career! The degree you are about to receive symbolizes the world-class, tier-one education you obtained at the University of Houston.

There were many factors that contributed to your success. The support of your parents, families and friends, and the encouragement of your faculty, advisors and staff played a significant part. But what made it all possible was the personal commitment, drive and resolve that helped you cross the finish line. We take profound satisfaction in knowing these same attributes will serve you well as you make your mark in the world.

Please leave today as proud UH graduates, confident you are the best prepared, best educated and best equipped individuals of your generation. I know in my heart that you are now ready and able not just to compete, but to succeed and be leaders in your chosen careers.

With my best wishes for a bright and rewarding future,

Renu Khator

Renu Khator
President, University of Houston



Letter from the Dean

Dear Engineering Graduates,

By nature of you being here today, you are among the best, brightest and hardest working engineers the world has to offer.

You have made it through one of the most rigorous engineering programs in the country. During your time as an engineering student, you have collectively spent thousands of hours researching, volunteering and interning in the city of Houston, adding to the strength and vibrancy of our community. When you leave our labs and classrooms to embark on your careers, your professional contributions will have a resounding impact here, in the city of Houston, and around the world.

You are the thinkers, doers and creators of our modern world. You will be the designers, builders, problem-solvers and inventors of our tomorrow. Although you represent a wide variety of backgrounds and disciplines, as you walk across the stage to accept your diploma, you all have one thing in common: you are world-class engineers.

From here, the world is at your fingertips. Work hard, give back and trust in the knowledge you have acquired during your time as a student at the UH Cullen College of Engineering. Everything else will fall into place.

Congratulations, Cougar engineers! I look forward to seeing the impact your bright careers will have on our future and our world. Please stay in touch and fill me in on all of your successes: dean@egr.uh.edu.

Sincerely,

A handwritten signature in black ink that reads "Joseph W. Tedesco". The signature is written in a cursive, slightly slanted style.

Joseph W. Tedesco
Elizabeth D. Rockwell Dean and Professor



Convocation Speaker

CYNTHIA OLIVER COLEMAN, P.E.
Retired ExxonMobil Chemical Engineer

Cynthia Oliver Coleman, P.E. is a retired ExxonMobil Chemical Engineer and passionate Engineering Volunteer Leader. Since graduating magna cum laude in 1971 and becoming the first Black woman to receive a chemical engineering degree from the University of Houston (UH) Cullen College of Engineering (CCE), she has been on a lifelong mission helping others, especially women and minorities, pursue engineering. She currently serves on the UH Petroleum Engineering Advisory Board, the College's Campaign Committee for UH \$1 Billion Campaign, and the UH Alumni Association Foundation Board. She is a dedicated Advocate & Donor for UH Women in Engineering, and Counselor for UH Society of Women Engineers. She is a past President of the UH Engineering Alumni Association (UH EAA), and Founder & Chair Emeritus of UH EAA Engineers Week that has provided more than \$460,000 in scholarships to UH engineering students and student organizations.

In 1967 when Cynthia became a chemical engineering freshman at UH, she was the only woman in her class. Even though she had doubts about engineering, she persevered to obtain her degree. In doing so, she became first in her family to graduate college. She began her career as the first woman engineer in Humble Oil's East Texas Division which became Exxon's Oil & Gas Division. During her 33-year ExxonMobil career she was a role model featured in various publications, and she held positions in gas engineering, reservoir engineering, engineering applications, engineering recruiting, and engineering information systems before her retirement in 2004.

Cynthia has received an engineering leadership service award, an outstanding volunteer award, and the recognition of having a women in engineering award named after her. She has been featured in various UH magazines, and she is 1 of 238 women engineers in the country featured in "True Stories of Women Engineers" book used in educational outreach. She is a Life Member of the Society of Women Engineers, National Society of Black Engineers, and Alpha Kappa Alpha Sorority, Inc. Cynthia is married to UH alumnus Leonard, and they are proud parents of UH alumna daughter Kelly.

University of Houston
Cullen College of Engineering

Convocation

Thursday, December 14, 2017, 10 a.m.
Bayou City Event Center

PROCESSIONAL	Grand Marshal Chad Wilson <i>Instructional Assistant Professor</i> Grand Marshal Leonard Trombetta <i>Associate Professor</i> Faculty Banner Bearer Platform Party Dean Joseph Tedesco
PRESENTATION OF THE COLORS	UH ROTC
NATIONAL ANTHEM	Moore School of Music
WELCOME AND INTRODUCTORY REMARKS	Joseph W. Tedesco <i>Elizabeth D. Rockwell Dean and Professor</i>
REGENT'S REMARKS	The Honorable Durga Agrawal <i>Regent, University of Houston Board of Regents</i>
CONVOCATION ADDRESS	Cynthia Oliver Coleman <i>Cullen College of Engineering Alumnus</i>
PRESENTATION OF BEST DISSERTATION AWARDS	Suresh Khator <i>Associate Dean for Graduate Programs and Computing Facilities</i>
PRESENTATION AND HOODING OF DOCTORAL CANDIDATES	Mike Lejeune <i>Presenter</i>
PRESENTATION OF MASTER'S CANDIDATES	Mike Lejeune <i>Presenter</i>
PRESENTATION OF BACHELOR'S CANDIDATES	Mike Lejeune <i>Presenter</i>
CLOSING REMARKS	Dean Tedesco
ALMA MATER	Moore School of Music
RECESSIONAL	

Event music provided by the Moore School of Music.



Cullen College of Engineering

The University of Houston Cullen College of Engineering, established in 1941, is accredited by the Engineering Accreditation Commission of ABET. The Cullen College is ranked among the top 100 engineering schools in the country and is recognized as one of Best Engineering Schools of 2017 by U.S. News & World Report.

Approximately 5,000 students are enrolled in engineering courses—3,267 undergraduates as well as 1,287 master's and doctoral students in biomedical, chemical, civil, computer, electrical, environmental, geosensing systems, industrial, mechanical and petroleum engineering. The college also offers interdisciplinary graduate programs in space architecture, subsea, aerospace, materials, and computer and systems engineering. Chemical, mechanical, electrical, computer and civil engineering are ranked among the top graduate programs nationally by U.S. News & World Report.

The mission of the Cullen College of Engineering at the University of Houston is to serve the Greater Houston community, Texas and the nation by educating engineers to assume leadership positions in the identification and solution of the complex technical challenges of society, to advance the state of knowledge through pioneering research and scholarly work, to facilitate the transfer of new technology to Texas and U.S. industries, to play a key role in economic development for the Greater Houston region and the State of Texas, and to benefit the public sector through service to the university, community, industry, government and the engineering profession.

Administration

Joseph Tedesco
Elizabeth D. Rockwell Dean and Professor

Hanadi Rifai
Associate Dean for Research and Facilities

Suresh Khator
*Associate Dean for Graduate Programs
and Computing Facilities*

Frank Claydon
*Director of the Division of Undergraduate
Programs and Student Success*

Metin Akay
*Chair, Department of
Biomedical Engineering*

Michael Harold
*Chair, Department of Chemical
and Biomolecular Engineering*

Roberto Ballarini
*Chair, Department of Civil
and Environmental Engineering*

Badrinath Roysam
*Chair, Department of Electrical
and Computer Engineering*

Gino Lim
*Chair, Department of
Industrial Engineering*

Pradeep Sharma
*Chair, Department of
Mechanical Engineering*

Mohamed Soliman
*Chair, Department of
Petroleum Engineering*

Jagannatha Rao
*Director of Online Programs and
Extension Services*

Phaneendra Kondapi
*Director of Engineering Programs,
UH Katy*

Russell Dunlavy
Chief Development Officer - UH STEM

Stephen Bangerter
Executive Director of Business Operations

Audrey Grayson
Executive Director of Communications

Janice Quiroz-Perez
*Director of the Engineering
Career Service Center*

Roshawnda Anderson
Assistant Dean of Administration

National Academy of Engineering Members

J.J. Azar

Petroleum Engineering

Benton Baugh

Subsea Engineering

Charles Cutler

Chemical and Biomolecular Engineering

Christine Ehlig-Economides

Petroleum Engineering

S. M. Farouq Ali

Petroleum Engineering

John Lienhard

Mechanical Engineering

Dan Luss

Chemical and Biomolecular Engineering

Andrea Prosperetti

Mechanical Engineering

Kaushik Rajashekara

Electrical and Computer Engineering

James Symons

Civil and Environmental Engineering

Jerome Schultz

Biomedical Engineering

Ganesh Thakur

Petroleum Engineering

Anestis Veletsos

Civil and Environmental Engineering

Kaspar Willam

Civil and Environmental Engineering

Department of Biomedical Engineering

Mohammad Abidian

Associate Professor

Metin Akay

Professor and Chair

Yasemin Akay

Instructional Assistant Professor

Muayyad Al-Ubaidi

Professor

Joseph Francis

Associate Professor

Howard Gifford

Associate Professor

Nuri Ince

Assistant Professor

Kirill Larin

Professor

Sheereen Majd

Assistant Professor

Elebeoba May

Associate Professor

Chandra Mohan

Professor and Associate Chair

Muna Naash

Professor

Jerome Schultz
Professor

Sergey Shevkoplyas
Associate Professor

Tianfu Wu
Assistant Professor

Yingchuan Zhang
Assistant Professor

Department of Chemical and Biomolecular Engineering

Vemuri Balakotaiah
Professor

Praveen Bollini
Assistant Professor

Patrick Cirino
Associate Professor

Jacinta Conrad
Associate Professor

Vincent Donnelly
Professor

Demetre Economou
Professor

Lars Grabow
Associate Professor

Michael Harold
Professor and Chair

Alamgir Karim
Professor

Ramanan Krishnamoorti
Professor

Dan Luss
Professor

Michael Nikolaou
Professor

Mehmet Orman
Assistant Professor

Jeremy Palmer
Assistant Professor

Jeffrey Rimer
Associate Professor

Megan Robertson
Associate Professor

Navin Varadarajan
Associate Professor

Peter Vekilov
Professor

Richard Willson
Professor

Department of Civil and Environmental Engineering

Roberto Ballarini
Professor and Chair

Abdeldjelil Belarbi
Professor

Mina Dawood
Associate Professor

Egor Dontsov
Assistant Professor

Craig Glennie
Associate Professor

Reagan Herman
Instructional Associate Professor

Thomas Hsu
Professor

Yandi Hu
Assistant Professor

Konrad Krakowiak
Assistant Professor

Hyongki Lee
Associate Professor

Arturo Leon
Associate Professor

Stacey Louie
Assistant Professor

Yi-Lung Mo
Professor

Kalyana Nakshatrala
Associate Professor

Hanadi Rifai
Professor and Associate Dean

William Rixey
Associate Professor and Associate Chair

Debora Rodrigues
Associate Professor

Ramesh Shrestha
Professor

Joseph Tedesco
Professor and Dean

Cumaraswamy Vipulanandan
Professor

Keh-Han Wang
Professor

Department of Electrical and Computer Engineering

Jiming Bao
Associate Professor

Aaron Becker
Assistant Professor

Stanko Brankovic
Associate Professor

Ji Chen
Professor

Jiefu Chen
Assistant Professor

Jinghong Chen
Associate Professor

Yuhua Chen
Associate Professor

Frank Claydon
Professor and Director

Cullen College of Engineering

FACULTY

Jose Contreras-Vidal
Professor

Rose Faghih
Assistant Professor

Xin Fu
Associate Professor

Zhu Han
Professor

Thomas Hebert
Associate Professor

David Jackson
Professor

Harish Krishnamoorthy
Assistant Professor

Han Le
Professor

Huang Quang Le
Instructional Assistant Professor

Jung Uk Lim
Instructional Assistant Professor

Dmitri Litvinov
Professor

Stuart Long
Professor

David Mayerich
Assistant Professor

Hien Nguyen
Assistant Professor

Miao Pan
Assistant Professor

Shin-Shem Pei
Professor

Saurabh Prasad
Assistant Professor

Kaushik Rajashekara
Professor

Badrinath Roysam
Professor and Chair

Paul Ruchhoeft
Associate Professor

Xiaonan Shan
Assistant Professor

David Shattuck
Associate Professor

Bhavin Sheth
Associate Professor

Wei-Chuan Shih
Associate Professor

Leonard Trombetta
Associate Professor and Associate Chair

John Wolfe
Professor

Yan Yao
Associate Professor

Wanda Zagozdzon-Wosik
Associate Professor

Department of Industrial Engineering

Christopher Chung
Associate Professor

Qianmei Feng
Associate Professor

Ali Kamrani
Associate Professor

Suresh Khator
Professor and Associate Dean

Taewoo Lee
Assistant Professor

Gino Lim
Professor and Chair

Ying Lin
Assistant Professor

Jiming Peng
Associate Professor

Lawrence Schulze
Associate Professor

Randal Sitton
Instructional Associate Professor

Yaping Wang
Instructional Assistant Professor

Department of Mechanical Engineering

Ashutosh Agrawal
Associate Professor

Daniel Araya
Assistant Professor

Haleh Ardebili
Associate Professor

Richard Bannerot
Professor

Theocharis Baxevanis
Assistant Professor

Christina Chang
Instructional Assistant Professor

Xuemei Chen
Instructional Assistant Professor

Yi-Chao Chen
Professor

Zheng Chen
Assistant Professor

Matthew Franchek
Professor

Hadi Ghasemi
Assistant Professor

Karolos Grigoriadis
Professor

Phaneendra Kondapi
Instructional Professor and Director

Yashashree Kulkarni
Associate Professor

Dong Liu
Associate Professor

Holley Love
Instructional Assistant Professor

Philippe Masson
Assistant Professor

Anastassios Mavrokefalos
Assistant Professor

Ralph Metcalfe
Professor

Rodolfo Ostilla Monico
Assistant Professor

Andrea Prosperetti
Professor

Jagannatha Rao
*Associate Professor,
Associate Chair and Director*

Jae-Hyun Ryou
Assistant Professor

Venkat Selvamnickam
Professor

Pradeep Sharma
Professor and Chair

Gangbing Song
Professor

Li Sun
Professor

Su Su Wang
Professor

Kenneth White
Professor

Di Yang
Assistant Professor

Cunjia Yu
Assistant Professor

Department of Petroleum Engineering

Christine Ehlig-Economides
Professor

S. M. Farouq Ali
Professor

Lori Hathon
Assistant Professor

Dimitrios Hatzignatiou
Professor

Konstantinos Kostarelos
Associate Professor

KyungJae Lee
Assistant Professor

Michael Myers
Associate Professor

Guan Qin
Associate Professor

Ahmad Sakhaee-Pour
Assistant Professor

Mohamed Soliman
Professor and Chair

Ganesh Thakur
Professor

Huai Wang
Instructional Assistant Professor

George Wong
Associate Professor

Division of Undergraduate Programs and Student Success

Daniel Burleson
Instructional Assistant Professor

Diana de la Rosa-Pohl
Instructional Assistant Professor

Jerrod Henderson
Instructional Assistant Professor

Brian Metrovich
Instructional Associate Professor

Erin McCave
Instructional Assistant Professor

Chad Wilson
Instructional Associate Professor

Best Ph.D. Dissertation Award

Summer 2017 and Fall 2017 Graduates

This semester, we have two outstanding dissertation award winners. A plaque and a check for \$1,000 will be given to the following two individuals:

Rui Li,

Ph.D. in Chemical and Biomolecular Engineering

DISSERTATION TITLE: Multifaceted Approaches to Tailor Zeolite Properties and Elucidate the Role of Precursors in Nonclassical Crystallization

DISSERTATION ADVISORS: Dr. Jeffrey Rimer

Meysam Heydari Gharahcheshmeh

Ph.D. in Materials Science and Engineering

DISSERTATION TITLE: Structural and Electromagnetic Study of Heavily Doped ZR-Added Rebc Coated Conductors Fabricated by Reel-to-Reel MOCVD

DISSERTATION ADVISORS: Dr. Venkat Selvamanickam

The Honors College Honors

The Honors College at the University of Houston offers students special opportunities to develop their academic abilities. Below are the Honors College honors designations.

University Honors with Honors in Major

Students who complete the Honors College curriculum (36 hours) and complete a senior honors thesis.

University Honors

Students who complete the Honors College curriculum and elect not to complete a senior honors thesis.

Collegiate Honors and Collegiate Honors with Honors in Major

Students who fulfill the requirements for the honors program in the college of their major, including 21 hours of honors courses; who complete an Honors College minor, or who complete 21 hours of approved honors courses. If students also complete a senior honors thesis, they graduate with Collegiate Honors with Honors in Major.

Membership in The Honors College and Membership in The Honors College with Honors in Major

Students who affiliate with the Honors College during their undergraduate years and complete fewer than 21 hours of honors courses. If students also complete a senior honors thesis and fulfill the requirements of their major with distinction, they graduate with Membership in The Honors College with Honors in Major.

Honors in Major

Students who complete a senior honors thesis but are not members of the Honors College.

Summer 2017 Honors Recipients

Collegiate Honors

Tri Huu Nguyen

Membership in The Honors College

Fernando Sergio Curiel

Fall 2017 Honors Recipients

University Honors with Honors in Major

Chandika Silva

University Honors

Cristian Antonio Aparicio

Laura L. Clark

Victoria Y. Dieu

Thomas Ing Hsu

Kevin J. McEnery

Walter A. Rodriguez

Abdullah Rami Tuffaha

Andrew Vodinh

Jonathan Boris Zelenko

Collegiate Honors

Michael S. Alexander

Shubhangi S. Mundhada

Honors

Undergraduate students who have completed the graduation requirements of the Honors College, including a senior honors thesis or senior honors project, are graduated with “University Honors with Honors in Major.” Undergraduate students who have completed all requirements of the Honors College except for the thesis or project are graduated with “University Honors.”

Undergraduate students who successfully complete a senior honors thesis or senior honors project and who are not members of the Honors College are graduated with “Honors in Major.”

Undergraduate students who complete their degree requirements under catalogs beginning in Fall 2010 will graduate with the stated academic honors if they achieve the following grade point averages earned in the last fifty-four (54) hours (all of which must be A, B, C,... letter grade courses) completed at the University of Houston. Grades of S, U, I and W are not assigned grade point values and are not used in the computation of the grade point average.

3.90 to 4.0	Summa Cum Laude (with highest honors)
3.70 to 3.89	Magna Cum Laude (with high honors)
3.50 to 3.69	Cum Laude (with honors)

Further, the honors calculation will include all hours completed in the semester in which the first of those final fifty-four (54) hours was completed.

Fall 2017

**DOCTOR OF PHILOSOPHY
IN CHEMICAL ENGINEERING**

FNU Aseem

Oxidative Coupling of Methane over Mixed
Metal Oxide Catalysts: Thermokinetic
and Oxygen Distribution Effects
ADVISOR: Dr. Michael P. Harold

Karthik Venkata Rama Krishna Dadi

Transient and Steady-State Light-Off Features
During Co-Oxidation of CO and HCs in DOC
ADVISORS: Dr. Vemuri Balakotaiah and
Dr. Dan Luss

Shuai He

Molecular Modeling of Shale Gas Transport
Mechanisms in Shale Nanopores
ADVISOR: Dr. Guan Qin

Sashank Kasiraju

Catalysis of Imperfections: Importance of the
Nature and Abundance of Defects in Oxides
and Chalcogenides for Diverse Applications
ADVISOR: Dr. Llars C. Garbow

Rui Li

Multifaceted Approaches to Tailor Zeolite
Properties and Elucidate the Role of
Precursors in Nonclassical Crystallization
ADVISOR: Dr. Jeffrey D. Rimer

Shobhit Misra

Building Models of Process Systems:
Applications in Control & Design
ADVISOR: Dr. Michael Nikolaou

**DOCTOR OF PHILOSOPHY
IN CIVIL ENGINEERING**

Niousha Amani

Characterization and Modeling the Dynamic
Responses, Gas Leakage and Contamination on
the Behavior of the Smart Cement Composite
ADVISOR: Dr. Cumaraswamy Vipulanandan

Mohammed Fathi Mohammed Bashar

Subcritical Flow Computation in an
Open-Channel Network with Dividing
Junctions and Sluice Gates
ADVISOR: Dr. Keh-Han Wang

Jassim Mustafa Qadir Jaf

Interaction of Solitary Waves with
a Submerged Breakwater and
Experimental Visualizations of
Induced Vortex Characteristics
ADVISOR: Dr. Keh-Han Wang

Prakash Poudel

**DOCTOR OF PHILOSOPHY
IN ELECTRICAL ENGINEERING**

Md Masud Parvez Arnob

3D Plasmonic Nanoarchitectures: Fabrication,
Characterization, and Applications
ADVISOR: Dr. Wei-Chuan Shih

Nikunj Arunkumar Bhagat

Brain-Machine Interface with Closed-Loop
Neuromuscular Stimulation for Grasping in
Stroke and Spinal Cord Injury Survivors
ADVISOR: Dr. Jose L. Contreras-Vidal

Kedar Balaji Grama

Computational Analysis of Remodeling in
the Rat Brain after Traumatic Brain Injury
ADVISOR: Dr. Badrinath Roysam

Qicheng Huang

Power Sharing and Power Quality
Improvement in Parallel Connected
Power Converters in the Microgrid
ADVISOR: Dr. Kaushik Rajashekara

Lianyang Li

mTBI Detection and Assessment
based on EEG/MEG Analysis
ADVISOR: Dr. George Zouridakis

Lintong Li

Development of an Absorbing Radio Frequency
Shield for Safe Magnetic Resonance Imaging
ADVISOR: Dr. Ji Chen

Xinyu Liu

Transparent and Non-transparent
Microstrip Antenna on a CubeSat
ADVISOR: Dr. David R. Jackson

Kaveh Shervin

Development of High Efficiency
Low Cost III-V Solar Cells
ADVISOR: Dr. Alexandre Freundlich

Radwa Aly Mohammed Hussein Sultan

Utilizing Full Duplex Multiple Antenna
in Heterogeneous Networks
ADVISOR: Dr. Zhu Han

Hsu-Hsiang Wu

Evaluation & Exploration of Complex
Subterranean Formations Using
Numerical Modeling: Azimuthal EM
Deep Resistivity Applications
ADVISOR: Dr. Ji Chen

Junchao Wu

Design and Analysis of Hardware-
based Scheduler and Multi-photon
Quantum Cryptography Protocol
ADVISOR: Dr. Yuhua Chen

Huaqing Zhang

A Hierarchical Game Framework
for Distributive Resource
Allocation in Future HetNet
ADVISOR: Dr. Zhu Han

DOCTOR OF PHILOSOPHY IN GEOSENSING SYSTEMS ENGINEERING AND SCIENCES

Xiao Wang

Filtering of Single Photon LiDAR Data
ADVISOR: Dr. Craig Glennie

DOCTOR OF PHILOSOPHY IN MATERIALS ENGINEERING

Su-Chi Chang

Synthesis and Characterization of
Two Dimensional Transition Metal
Dichalcogenide Materials
ADVISOR: Dr. Shin-Shem Steven Pei

Saman Gheyfani

Long Cycle-Life Aqueous Batteries
Enabled by Organic Electrode Materials
ADVISOR: Dr. Yan Yao

Yao Yao

Hetero-Epitaxial Growth of Ge and
ZnO on Metal Substrates by Reel-
to-Reel Physical Vapor Deposition
for Flexible Device Fabrication
ADVISOR: Dr. Venkat Selvamianickam

DOCTOR OF PHILOSOPHY IN MECHANICAL ENGINEERING

Mete Mutlu

Dynamic Analysis of Subsea Blowout
Preventer Fluid Power System
ADVISOR: Dr. Matthew A. Franchek

Cullen College of Engineering
CANDIDATES FOR GRADUATION

Peter Alexander Smith
Miniature Axial Flow Blood Pump:
Hydraulic Development & Design
ADVISOR: Dr. Ralph W. Metcalfe

Milad Yarali
Thermal and Thermoelectric Transport
Measurements of Carbon Nanotube
Networks, Silicon Nanomembranes, and
Transition Metal Dichalcogenides
ADVISOR: Dr. Anastassios Mavrokefalos

**MASTER OF SCIENCE
IN AEROSPACE ENGINEERING**

Leonard Perez

**MASTER OF SCIENCE
IN BIOMEDICAL ENGINEERING**

Zhilin Guo
Jeffrey Sun

**MASTER OF CHEMICAL
ENGINEERING**

Diane Lynn Hayes
Johannes Kawi
Zerayacob Barsula Sermollo
Fahad Nayaz Sheriff

**MASTER OF SCIENCE
IN CHEMICAL ENGINEERING**

Mohammed Masoud E. Alamiri

**MASTER OF SCIENCE
IN CIVIL ENGINEERING**

Hazeem Amer
Amit Awal
Shaima Mohammed Aziz Aziz
Vladimir Berka
Garrett Powell Best

Vikhyath Kumar Gattu
Abrar Siddiq Hazari
Joel Brian Huber
Owanari Oluwakemi Iyalla
Shivani Pokharel
Bishow Pant

**MASTER OF SCIENCE
IN COMPUTER AND SYSTEMS
ENGINEERING**

Akhil Kumar Reddy Chityala
Wilson Paul Deshapaga
Jih-Tsen Lin
Ashoka Vardhan Pasupula
Krishna Priya Peddi
Giridhar Gourav Puttamsetty
Aashritha Vundyala

**MASTER OF ELECTRICAL
ENGINEERING**

Lijuan Hou
Sree Sai Ram Narayana
Sudarsan Sadasivuni

**MASTER OF SCIENCE
IN ELECTRICAL ENGINEERING**

Krishnagopal Ashok
Venkata Gowtam Srivatsav Chemudupati
Anusha Chinni
Seyeddavar Daeinejad
Hieu Trong Dinh
Mayuri Harikumar
Yashraja Reddy Obulam
Cristobal A. Pena
Sinh Phan Pham
Hrshikesh Prabhu
Pallavi Rawat
Jorge Rivera

Arvindhan Sayapathy
Sayandeep Sen
Sayeed Shakaib Ahmed
Sulav Sharma Gautam
Manish Reddy Sudini
Mohammad M. Sultan
Xiaohui Wang
Zhiheng Zuo

MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

Sergio De La Fuente
Sai Sheetal Garlapati
Divya Dharmendra Khandelwal
Eric Minh Le
Peter Shashank Lyman
Jose G. Mendiola
Annie T. Nguyen
Akhil Reddy Vakiti

MASTER OF INDUSTRIAL ENGINEERING

Akshay Agrawal
Sai Nishanth Reddy Anumandla
Laxmi Bhandari
Harsh Kalpesh Desai
Sandeep Gundla
Sajal Sanjay Gupta
Yingzhe Huang
Mohammed Noor Ul Haq Hussain
Vinod Kaushal Irukulla
Chaitanya Kumar Isukala
Reza Jarvand
Sai Chaitanya Kantipudi
Lokesh Karthikeyan
Nithin Prakash Kashyap
Lizyle Leslie Machado

Gangadhar Mahalingappa
Shashank Manghat
Suraj Mattoo
Aravindhakshan Mohan
Nikitha Muddapuram
Sai Krishna Manish Munnangi
Satya Sai Sandeep Mupparaju
Parvathy Muralidharan
Harish Uday Nagesh
Srihari Nalla Nagula
Sravani Nanduri
Madhav Jayeshkumar Pandya
Poojan Ajaykumar Patel
Hardik Maganbhai Pokal
Lokanadh Sasank Prabhala
Nirmal Kumar Ravichandran
Sayantrini Saha
Siddhartha Sarkar
Dinesh Sigireddy
Dinesh Babu Sivasamy
Sai Ravi Krishna Subramani
John Pradeep Sugumar
Tipu Sultan
Tony Thomas Pattathil
Sai Teja Tumuluru
Bharat Vadapalli

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Linh Quoc Vu

MASTERS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

Anjali Bhattarai
I. Kang Wu

Cullen College of Engineering
CANDIDATES FOR GRADUATION

**MASTER OF SCIENCE
IN MECHANICAL ENGINEERING**

Nnamdi Thaddeus Agbo
Yufei Ai
Omar Ashraf Ali
Ravi Teja Chaganti
Luis Alfonso Daza
Juan D. Delgadillo Morales
Ramkumar Ethirajulu
Ubong Etukudo
Mauricio Gonzalez
Neeraj Gupta
Graham Hunter
Christopher James Ingold
Mehul Jain
Abhishek Kaurav
Edison Lamsal
Mukhtar Mobolaji Mustapha
Jeison Yamit Palomino
Keyur Tarunkumar Patel
Vedang Dipakbhai Patel
Shadman Hussain Qaisar
Anand Rathnam
Ahmed Khan Salman
Kishan Prabhakar Savant
Uduakobong Patrick Solomon
Sweekrith Suresh
Arpan Upadhyaya
Venkata Sai Raviteja Vankadara
Bajjo Varghese Kaleeckal
Deepankar Verma

**MASTER OF PETROLEUM
ENGINEERING**

Troy Aalund
Zachariah K Al-Shafei
Robert De Gobbi

Reza Faraji
Utkarsh Gupta
Hussein Amr Khorshed
Samuel Lau
Zhaosheng Lin
Haoran Liu
Andrea Alejandra Mateos
John E. Musa
Olabode J. Otunola
Connor A. Rivard
Aakash Subhashbhai Shah
Vicky Singla
Robert Strong
Linan Su
Rahul Pravin Umrani
Chukwuma Carl Ukegbu
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On Protein Crystal Nucleation Precursors
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Spatio-temporal Features of Combined
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Selective Catalytic Reduction
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Crash Analysis of Degraded Concrete
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Nondestructive Real-Time Interface Bonding
Characterization between Fiber Reinforced
Polymer Strands and Highly Sensing Cement
and Polymer Composite Matrix during
Loading and Chemical Degradation

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Hydrodynamic Interactions between a Solitary
Wave and a Partially Submerged Structure of
Either a Thin Porous Wall or a 2-D Finite-
Length Body with Attached Dual Porous Walls

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Innovations in Raman Spectroscopy
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All hail to thee,
Our Houston University.
Our hearts fill with gladness
When we think of thee.
We'll always adore thee
Dear old varsity.
And to thy memory cherished,
True we'll ever be.

Academic Regalia

THE ATTIRE of the participants dates back to the 12th and 13th centuries, when universities began to be established in Europe. In 1321, at the University of Coimbra in Portugal, gowns were required attire not just for faculty members, but also for students of all classifications. Other European universities started requiring gowns, but there was not a standard design. In 1887, Gardner Leonard volunteered to design the graduation gowns for his class at Williams College. His design, as well as the standardization of colors to denote areas of study, were later adopted by an intercollegiate commission, and are the ones used today by most United States colleges and universities.

GOWNS. The bachelor's gown has long pointed sleeves; the master's gown has an oblong sleeve open at the wrists (some older gowns may be open near the upper part of the arm); the doctoral gown is fuller than the others with full-length velvet panels on the front and three velvet crossbars on each sleeve in black or in the color distinctive to the academic discipline of the wearer's degree.

HOODS. The hood, worn by master's and doctoral degree recipients, drapes over the shoulders and down the back and indicates the academic discipline to which the degree pertains; the field of the hood denotes the university that conferred the degree. The size of the hood indicates the level of the degree.

CAPS. The black mortarboard is the most common cap used. The tassel fastened to the center of the cap is black, although it may be the color appropriate to the subject of the degree. The tassel for the doctoral cap may be of gold thread. Candidates for bachelor's degrees wear the tassels on the right side, shifting it to the left side after being awarded their degrees. Candidates for master's and doctoral degrees wear their tassels on the left side from the outset and do not shift them after receiving their degrees.

BACHELOR'S DEGREES	<i>Gown:</i> Black <i>Tassel:</i> Orange
MASTER'S DEGREES	<i>Gown:</i> Black <i>Hood:</i> Orange <i>Tassel:</i> Black
DOCTORAL DEGREES	<i>Gown:</i> Black <i>Hood:</i> Dark Blue <i>Tassel:</i> Old Gold

A special thanks to the Convocation Committee and volunteers who assisted in making this memorable event possible.

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4722 Calhoun Road, Room E421
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