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, engineering Cougars! 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,

Joseph W. Tedesco
Elizabeth D. Rockwell Dean and Professor
Convocation Speaker

JESSE GONZALEZ

Jesse Gonzalez received his Bachelor of Science in Civil Engineering from the University of Houston in 1969. He served as Chairman of the Board for SpawGlass and served as president of the Houston operations for more than fifteen years until his retirement in 2009. Mr. Gonzalez is a registered Professional Engineer in the State of Texas, is past President of the local chapters of Associated Builders and Contractors as well as Associated General Contractors of America and is Past Chairman of the Greater Heights Chamber of Commerce. He is a Life Member of the Houston Alumni Association and serves on the UH Civil and Environmental Engineering Industrial Advisory Board as well as on the UH Engineering Leadership Board. Mr. Gonzalez is a recipient of the University of Houston Distinguished Engineering Alumni Award, which he received in 2003, and is the recipient of the Lifetime Achievement Award from the UH Alumni Association in 2011.

Mr. Gonzalez, in partnership with nine other employees, purchased the company SpawGlass in 1991. Soon after the purchase, the company was transitioned to 100% employee ownership with more than 300 employee shareholders, ranging from administrative staff and field laborers to executive management. Since the purchase and employee ownership, the company has thrived reaching revenue levels of almost $500 million. The company has been voted Best Places to Work by the Houston Business Journal and Texas Monthly as well as consistently being ranked as one of Houston’s Top 10 General Contractors and one of the Top 400 US General Contractors.

Mr. Gonzalez is married to his high school sweetheart Terry, and they have four children.
University of Houston
Cullen College of Engineering

Convocation
Friday, December 16, 2016, 6 p.m.
Hofheinz Pavilion

PROCESSIONAL
Grand Marshal Chad Wilson
Instructional Assistant Professor

Grand Marshal Leonard Trombetta
Associate Professor

Faculty
Banner Bearer
Platform Party
Dean Joseph Tedesco

PRESENTATION OF THE COLORS
UH ROTC

NATIONAL ANTHEM
ManCorps

WELCOME AND INTRODUCTORY REMARKS
Joseph W. Tedesco
Elizabeth D. Rockwell Dean and Professor

CONVOCATION ADDRESS
Jesse Gonzalez
Cullen College of Engineering Alumnus

PRESENTATION OF BEST DISSERTATION AWARDS
Hanadi Rifai
Associate Dean for Research and Facilities

PRESENTATION AND HOODING OF DOCTORAL CANDIDATES
Jacinta Conrad
Associate Professor of Chemical and Biomolecular Engineering

PRESENTATION OF MASTER’S CANDIDATES
Jagannatha Rao
Director of Online Programs and Extension Services

PRESENTATION OF BACHELOR’S CANDIDATES
Frank Claydon
Director of the Division of Undergraduate Programs and Student Success

CLOSING REMARKS
Dean Tedesco

ALMA MATER
ManCorps

RECESSIONAL

Event music provided by ManCorps, Moores 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—3,722 undergraduates as well as 1,247 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 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Joseph Tedesco</td>
<td>Elizabeth D. Rockwell Dean and Professor</td>
</tr>
<tr>
<td>Hanadi Rifai</td>
<td>Associate Dean for Research and Facilities</td>
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<tr>
<td>Suresh Khator</td>
<td>Associate Dean for Graduate Programs and Computing Facilities</td>
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<tr>
<td>Frank Claydon</td>
<td>Director of the Division of Undergraduate Programs and Student Success</td>
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<tr>
<td>Metin Akay</td>
<td>Chair, Department of Biomedical Engineering</td>
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<tr>
<td>Michael Harold</td>
<td>Chair, Department of Chemical and Biomolecular Engineering</td>
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<tr>
<td>Roberto Ballarini</td>
<td>Chair, Department of Civil and Environmental Engineering</td>
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<tr>
<td>Badrinath Roysam</td>
<td>Chair, Department of Electrical and Computer Engineering</td>
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<tr>
<td>Gino Lim</td>
<td>Chair, Department of Industrial Engineering</td>
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<tr>
<td>Pradeep Sharma</td>
<td>Chair, Department of Mechanical Engineering</td>
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<tr>
<td>Mohamed Soliman</td>
<td>Chair, Department of Petroleum Engineering</td>
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<tr>
<td>Russell Dunlavy</td>
<td>Chief Development Officer - UH STEM</td>
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<tr>
<td>Stephen Bangerter</td>
<td>Executive Director of Business Operations</td>
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<tr>
<td>Audrey Grayson</td>
<td>Executive Director of Communications</td>
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<tr>
<td>Jagannatha Rao</td>
<td>Director of Online Programs and Extension Services</td>
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<tr>
<td>Janice Quiroz-Perez</td>
<td>Director of the Engineering Career Service Center</td>
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<tr>
<td>Roshawnda Anderson</td>
<td>Assistant Dean of Administration</td>
</tr>
</tbody>
</table>
### National Academy of Engineering Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>J.J. Azar</td>
<td>Petroleum Engineering</td>
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<tr>
<td>Benton Baugh</td>
<td>Subsea Engineering</td>
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<tr>
<td>Charles Cutler</td>
<td>Chemical and Biomolecular Engineering</td>
<td></td>
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<tr>
<td>Christine Ehlig-Economides</td>
<td>Petroleum Engineering</td>
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<tr>
<td>John Lienhard</td>
<td>Mechanical Engineering</td>
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<tr>
<td>Dan Luss</td>
<td>Chemical and Biomolecular Engineering</td>
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<tr>
<td>Andrea Prosperetti</td>
<td>Mechanical Engineering</td>
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<tr>
<td>Kaushik Rajashekara</td>
<td>Electrical and Computer Engineering</td>
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<td>James Symons</td>
<td>Civil and Environmental Engineering</td>
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<tr>
<td>Ganesh Thakur</td>
<td>Petroleum Engineering</td>
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<tr>
<td>Anestis Velestos</td>
<td>Civil and Environmental Engineering</td>
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<tr>
<td>Kaspar Willam</td>
<td>Civil and Environmental Engineering</td>
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### Department of Biomedical Engineering

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Mohammad Abidian</td>
<td>Associate Professor</td>
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<tr>
<td>Metin Akay</td>
<td>Professor and Chair</td>
</tr>
<tr>
<td>Muayyad Al-Ubaidi</td>
<td>Professor</td>
</tr>
<tr>
<td>Ravi Birla</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Joseph Francis</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Howard Gifford</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Nuri Ince</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Kirill Larin</td>
<td>Professor</td>
</tr>
<tr>
<td>Sheereen Majd</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Elebeoba May</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Chandra Mohan</td>
<td>Professor and Associate Chair</td>
</tr>
<tr>
<td>Muna Naash</td>
<td>Professor</td>
</tr>
<tr>
<td>Ahmet Omurtag</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Sergey Shevkoplyas</td>
<td>Associate Professor</td>
</tr>
</tbody>
</table>
Tianfu Wu  
*Assistant Professor*

Yingchuan Zhang  
*Assistant Professor*

### Department of Chemical and Biomolecular Engineering

Vemuri Balakotaiah  
*Professor*

Dan Luss  
*Professor*

Patrick Cirino  
*Associate Professor*

Michael Nikolaou  
*Professor*

Jacinta Conrad  
*Associate Professor*

Jeremy Palmer  
*Assistant Professor*

Vincent Donnelly  
*Professor*

Jeffrey Rimer  
*Associate Professor*

Demetre Economou  
*Professor*

Megan Robertson  
*Assistant Professor*

Lars Grabow  
*Assistant Professor*

Navin Varadarajan  
*Associate Professor*

Michael Harold  
*Professor and Chair*

Peter Vekilov  
*Professor*

Ramanan Krishnamoorti  
*Professor*

Richard Willson  
*Professor*

### Department of Civil and Environmental Engineering

Roberto Ballarini  
*Professor and Chair*

Craig Glennie  
*Associate Professor*

Abdeldjilil Belarbi  
*Professor*

Thomas Hsu  
*Professor*

Mina Dawood  
*Associate Professor*

Yandi Hu  
*Assistant Professor*

Egor Dontsov  
*Assistant Professor*

Konrad Krakowiak  
*Assistant Professor*
Hyongki Lee  
*Assistant Professor*

Arturo Leon  
*Associate Professor*

Stacey Louie  
*Assistant Professor*

Yi-Lung Mo  
*Professor*

Kalyana Nakshatrala  
*Assistant 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*

Kaspar Willam  
*Professor*

Department of Electrical and Computer Engineering

Jiming Bao  
*Associate Professor*

Frank Claydon  
*Professor and Director*

Jose Contreras-Vidal  
*Professor*

Xin Fu  
*Assistant Professor*

Zhu Han  
*Professor*

Thomas Hebert  
*Associate Professor*

David Jackson  
*Professor*

Han Le  
*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  
Assistant 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

Gino Lim  
Professor and Chair
Jiming Peng  
Associate Professor
Lawrence Schulze  
Associate Professor
Department of Mechanical Engineering

Ashutosh Agrawal
Assistant Professor

Daniel Araya
Assistant Professor

Haleh Ardebili
Associate Professor

Richard Bannerot
Professor

Theocharis Baxevanis
Assistant Professor

Yi-Chao Chen
Professor

Matthew Franchek
Professor

Hadi Ghasemi
Assistant Professor

Karolos Grigoriadis
Professor

Yashashree Kulkarni
Associate Professor

Dong Liu
Associate Professor

Philippe Masson
Assistant Professor

Anastassios Mavrokefalos
Assistant Professor

Ralph Metcalfe
Professor

Andrea Prosperetti
Professor

Jagannatha Rao
Associate Professor,
Associate Chair and Director

Jae-Hyun Ryou
Assistant Professor

Venkat Selvamanickam
Professor

Pradeep Sharma
Professor and Chair

Gangbing Song
Professor

Li Sun
Professor

Su Su Wang
Professor

Kenneth White
Professor

Di Yang
Assistant Professor

Cunjiang Yu
Assistant Professor
Department of Petroleum Engineering

Christine Ehlig-Economides  
Professor

Lori Hathon  
Assistant Professor

Dimitrios Hatzignatiou  
Professor

Konstantinos Kostarellos  
Associate Professor

Michael Myers  
Associate Professor

Guan Qin  
Associate Professor

Mohamed Soliman  
Professor and Chair

Ganesh Thakur  
Professor

George Wong  
Associate Professor
Best Ph.D. Dissertation Awards

Summer 2016 and Fall 2016 Graduates

This semester, we have awarded the following individual a plaque and a check for $1,000 for being the outstanding dissertation award winner:

Fatemeh Ahmadpoor
PhD in Mechanical Engineering

**Dissertation Title:** Statistical Mechanics of 2D Materials: From Biological Membranes to Graphene

**Dissertation Advisor:** Dr. Pradeep Sharma
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.
Honors Recipients

University Honors

Leo Bartos
Jingfan Hu
Elsa M. Johnson
Andrew James Maicke

Fernando Medrano
Henry Hung Nguyen
Aubrey Claire Swilling

Collegiate Honors

Krystal D. Gengler
Humas S. Khan

Enjelia Veony

Membership in The Honors College

Kameron Billingsley

Mauricio Gonzalez
Fall 2016

**DOCTOR OF PHILOSOPHY IN BIOMEDICAL ENGINEERING**

Yun Peng  
Biomechanics and Electromyography in Assessing Female Stress Urinary Incontinence  
**ADVISOR:** Dr. Yingchun Zhang

**DOCTOR OF PHILOSOPHY IN CHEMICAL ENGINEERING**

Melanie Jane Hazlett  
Kinetic and Mechanistic Study of CO and Hydrocarbon Oxidation, and NOX Oxidation and Reduction over Pt-Pd Catalysts  
**ADVISORS:** Dr. William S. Epling and Dr. Lars C. Grabow

Megan Ann Ketchum  
Pathological Crystallization from Mixed Aqueous-Organic Solvents  
**ADVISORS:** Dr. Jeffrey Rimer and Dr. Peter Vekilov

Ibukun Gbadebo Makinde  
Production Forecasting, Performance Analyses and Behavior of Shale Volatile Oil Reservoirs  
**ADVISORS:** Dr. W. John Lee and Dr. Guan Qin

Shyam Panjwani  
Data Driven Approaches to Model Building: Applications to Energy Industries  
**ADVISOR:** Dr. Michael Nikolaou

Brian J Rohde  
Thermoset Blends of an Epoxy Resin and Polydicyclopentadiene  
**ADVISORS:** Dr. Megan Robertson and Dr. Ramanan Krishnamoorti

Monique Shaunta Wilburn  
Methane Oxidation over, and Sulfur Interactions with, Pd/Pt Bimetallic Catalysts  
**ADVISOR:** Dr. Bill Epling

**DOCTOR OF PHILOSOPHY IN CIVIL ENGINEERING**

Bahareh Basirat  
Testing and Modeling of Drilling, Cementing and Long Term Performance of Smart Cemented Oil Well  
**ADVISOR:** Dr. Cumaraswamy Vipulanandan

Zibraeb Alem Gebreselassie  
Detection and Quantification of Steel and Composite Corrosion with Smart Cement and Polymer Coating Materials  
**ADVISOR:** Dr. Cumaraswamy Vipulanandan

Saeid Karimi  
**ADVISOR:** Dr. Kalyana Babu Nakshatrala

Meng Liu  
Bond Behavior and Reliability Analysis of Carbon Fiber Reinforced Polymer (CFRP) Strengthened Steel Beams  
**ADVISOR:** Dr. Mina Dawood

Can Xu  
Material Degradation due to Moisture and Temperature  
**ADVISOR:** Dr. Kalyana Babu Nakshatrala

Botong Zheng  
Rehabilitation of Fatigue Sensitive Steel Elements Using Shape Memory Alloy/Fiber Reinforced Polymer (SMA/FRP) Composite Patches  
**ADVISOR:** Dr. Mina Dawood

¹ Summa Cum Laude - ² Magna Cum Laude - ³ Cum Laude - ⁴ Banner Bearer (highest GPA)
Doctor of Philosophy in Electrical Engineering

Yunan Gu
Matching Theory Framework for 5G Wireless Communications
ADVISOR: Dr. Zhu Han

Sirui Xing
Kinetic Study of Graphene Synthesis by Chemical Vapor Deposition
ADVISOR: Dr. Shin-Shim Pei

Mengna Yang
Investigation of TDOA Localization Method for Non-Line-of-Sight Scenarios
ADVISORS: Dr. David R. Jackson and Dr. Ji Chen

Ivan Nekrashevich
Ferromagnetic Resonance Spectroscopy of Arrays of Coupled Nanomagnets
ADVISORS: Dr. Dmitri Litvinov and Dr. Paul Ruchhoeft

William Quinn Walker
Thermo-Electrochemical Mechanisms of Lithium Ion Batteries for Human Space Flight Applications
ADVISOR: Dr. Haleh Ardebili

Doctor of Philosophy in Mechanical Engineering

Fatemeh Ahmadpoor
Statistical Mechanics of two-dimensional Materials: From Biological Membranes to Graphene
ADVISOR: Dr. Pradeep Sharma

Song Chen
Novel Fabrication of Flexible Electronics by Transfer Printing Process
ADVISOR: Dr. Cunjiang Yu

Mejdi Kammoun
Flexible and Stretchable Lithium Ion Batteries Based on Solid Polymer Nanocomposite Electrolyte
ADVISOR: Dr. Haleh Ardebili

Seyed Mohammad Parvasi
Advances in Piezoelectric Modeling for Health Monitoring of Structures with Interface Elements
ADVISOR: Dr. Gangbing Song

Xin Yan
Time-Scaling in Atomistics and the Mechanical Behavior of Materials
ADVISOR: Dr. Pradeep Sharma

¹ Summa Cum Laude - ² Magna Cum Laude - ³ Cum Laude - ⁴ Banner Bearer (highest GPA)
Cullen College of Engineering
CANDIDATES FOR GRADUATION

Junxiao Zhu
Innovative Applications of Piezoelectric Ceramic for Structural Impulse Events Monitoring
ADVISOR: Dr. Gangbing Song

MASTER OF SCIENCE IN AEROSPACE ENGINEERING
Saravanakumaar Ramia
Alec J Stephenson

MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING
Kelsey Smegner

MASTER OF SCIENCE IN CIVIL ENGINEERING
Sravya Bikki
Venkatesh Burri
Saicharan Patel Byrishetty
Ranadeer Gadeela
Harish Hegde
Halil Ibrahim Kula
Jinge Li
Wanzhi Liu
Yunhao Lu
Raj Gopal Nannapaneni
Dhruvat Mahendrakumar Patil
Salouna Pati
Rabin Poudel
Harischandra Bhanu Tadikonda
Xiaoyin Tan
Huy Quang Tran
Saurav Regmi

MASTER OF CHEMICAL ENGINEERING
Qiang Gao

Sha Huang
Jennifer Johnson
Rodney L. Leger
Aymara Carolina Pacheco
Jonathan Jay Chaim Talor

MASTER OF SCIENCE IN CHEMICAL ENGINEERING
Nicholas Jason Collett
Rajat Subhra Ghosh
Joshua Daniel Herr

MASTER OF SCIENCE IN COMPUTER AND SYSTEMS ENGINEERING
Mohammad Mobashshir Alam Adeel
Bhumika Jaysukhbbhai Dhani
Mohammed Mukarram Gulam
Tejeswini Jayaramareddy
Vinay Kumar Reddy Kaitha
Vamshidhar Reddy Keesara
Vinay Babu Kosaraju
Sindhu Maturi
Sreya Saswati Mohanty
Ahmed O. Ogunfayo
Saketh Reddy Palakollu
Sujita Rani Pathipaka
Harshavardhan Sriperumbooduru
Alma Rebeca Tijiboy Mendoza
Varshitha Reddy Yendapally

MASTER OF ELECTRICAL ENGINEERING
Bindu Varshini Kosanam
Niteshkumar Mishra
Simrat Bir Singh Pannu
Adwita Chintamani Parkar
Asher Rahman

¹ Summa Cum Laude - ² Magna Cum Laude - ³ Cum Laude - ⁴ Banner Bearer (highest GPA)
MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Alekhya Bhavani Adusumilli
Anusha Aedavalli
Rajeev Reddy Bathula
Pouya Beigi
Naveen Reddy Chilumula
Zhengwu Fang
Prateek Prakash Gaure
Pavithra Gopinath
Bala Naga Vamsidhar Grandhi
Sahithi Krishnaveni Grandhi
Ahmed Mugees Hassan
Eric Scott Ingram
Srikant Kandanuru Venkata Sudarshan
Gauri Vijay Kelkar
Matthew Lewis
Habib Faih Mahder
Syed Waris Mahmod
Srijani Mukherjee
Raidan R Nasreddine
Chioma Shirley Ndoubu
Shrivatsa Neerkaje
Khuzema Sunel
Lifeng Yan

MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

Saurabh Nomula
Pujith Pamulapati
Rakiba Rouf
Susana Vallejo

MASTER OF SCIENCE IN GEOSENSING SYSTEMS ENGINEERING AND SCIENCES

Peter J. Gadomski

MASTER OF INDUSTRIAL ENGINEERING

Sameer Reddy Alapati
Krishnasai Reddy Ambati
Abhishek Cheboli
Dhiraj Pandittrao Chougale
Michael Graham Conlin
Sri Harsha Reddy Daggula
Naga Santoshi Haasika Dasika
Dinesh Devarajan
Sriram Dintakurti
Veera Venkata Srujan Kumar Dronamraju
Dharanidhar Reddy Edala
Stewart Austin Estopinal
Chaitanya Gangineni
Sai Jayanth Reddy Gillella
Sicong Guo
Reza Jarvand
Naveenraj Kalyanasundaram
Karthick Srinivasan Kandasamy
Sahit Katta
Sai Vivek Kethavarapu
Gaurav Khandelwal
Chia Yuan Ko
Huseyin Kose
Tarun Kunchakuri
Vishwanath Lingam
Akhila Sree Maddukuri
Dipam Sudhirbhai Makani
Sreshta Mandadi
Rube Victor Mariduena Piedra
Evan James Morris
Aditya Subramani Murugan
Sreavan Krishna Narra
Nishant Kamleshkumar Patel
Harsh Mukeshbhai Patel
Vivek Anand Reddy Pidaparthi
Sri Pranay Potluri

¹ Summa Cum Laude - ² Magna Cum Laude - ³ Cum Laude - ⁴ Banner Bearer (highest GPA)
Pranav Chandrashekhar Purohit
Praveen Ramesh
Aashika Sathya Moorthy
Naga Lakshmi Poojitha Satyavarapu
Harihar Sekar
Parth Rakeshkumar Shah
Rushi Gaurangbhai Shah
Deepak Shankar
Raj Kumar Shanmugha Sundaram
Saketh Kapardi Singaraju
Harmandeep Singh
Duarakesh Sridhar
Vamsi Kaushik Sridharan
Manoj Surapaneni
Rahul Teja Thotempudi
An T. Trinh
Vaibhav Tyagi
Abhishek Vaid
Prem Vanajothi
Esabelle Verdeja

**MASTER OF SCIENCE**
**IN INDUSTRIAL ENGINEERING**

Saurav Sharma
Varun Vedantham

**MASTER OF SCIENCE**
**IN MATERIALS SCIENCE AND ENGINEERING**

Chella Ganapathy Chockalingam
Bharath Dixit
Kuan Yi Lee

**MASTER OF MECHANICAL ENGINEERING**

Diego Alejandro Rojas

---

1 Summa Cum Laude - ² Magna Cum Laude - ³ Cum Laude - 4 Banner Bearer (highest GPA)
MASTER OF PETROLEUM ENGINEERING
Akhila Bachapalli
Kumara Mouktik Chittipeddi
Seif Elfeky
Jingya Guan
Kaijie Guo
Yi Jiang
Haixia Liu
Palak Puri
Kyuchul Shin
Vignesh Swaminathan
Xuanda Wu
Jielin Xu

MASTER OF SCIENCE IN PETROLEUM ENGINEERING
FNU Gaurav
Himanshu Shekhar Jha
Deep Rajendrakumar Joshi
Dileep Kumar Ujjineni

MASTER OF SCIENCE IN SUBSEA ENGINEERING
Abayomi Adesina Adediran
Olaoluwa Ayotunde Alalade
Adewole Ayodeji Badmus
Preston Abbott Broom
Ovidio Cesar Gonzalez
Javan Ogorchukwu Igboh
Ahmad Oluwadamilola Isiaka
Oluwabusayo Modupe Olorunnipa
Oluwarotimi Okikiola Shoge
Kartik Subramanian

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Cesar Ariel Gonzalez
Daniel Fernando Gracia
Rick J. Harenberg ¹
Jacob A. Logan
Walter Mata ³
Henry Hung Nguyen

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Shaun L. Smith  
Evelyn Stewart  
Tu Gia Truong  
Ayman Sami Zamzam  
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Chaofan Chen  
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Albien Fezga  
Dhruvmin Dipakkumar Gandhi  
Jitin George  
Larry W. Gerhardt  
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Carlos M. Regueiro
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Angiogenesis in in vitro three-dimensional Microwell Platform
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Rational Design of Nanoporous Materials through Molecular Design and Mechanistic Study of Nucleation and Growth
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Lei Liu
Control of the Electron Energy Distribution and Plasma Ignition Delay in a Novel Dual Tandem Inductively Coupled Plasma Source
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Numerical Study of Production Mechanism of Unconventional Liquid-Rich Shale Reservoirs with Multi-Fractured Horizontal Wells
ADVISOR: Dr. John Lee

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Controlling Structure and Properties of Zeolites Prepared in Organic-free Media
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Design and Application of Regulatory Protein-Based Biosensors for Biocatalyst Screening in Recombinant Escherichia Coli
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Photo Assisted Etching in Halogen Containing Plasmas
ADVISORS: Dr. Vincent Donnelly and Dr. Demetre Economou

Guozhen Yang
Development of Sustainable and Degradable Thermosets and Elastomers
ADVISOR: Dr. Megan Robertson

**DOCTOR OF PHILOSOPHY IN CIVIL ENGINEERING**

Arezou Attar
Accelerated Alkali-Silica Reaction and Corrosion of Reinforcing Steel in Concrete: Application on Dry Casks
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Florentia Kavoura
Moment-Rotation Behavior of “Pinned” Column Base-Plate Connections in Low-Rise Metal Buildings
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Mohammad Shabouei
Theoretical and Numerical Study in Porous Media: Solution Verification and Viscous Fingering Instability
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Oil Spill Cleanup by Hydrophobic Silica Aerogels and Spilled Oil Interaction with Suspended Sediments
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ADVISORS: Dr. David R. Jackson and Dr. Stuart A. Long

Dawei Li
Efficient Computation of Layered Medium Green’s Function and its Application in Geophysics
ADVISOR: Dr. Ji Chen

Murad Megjhani
Data-Driven, Label Consistent, Dictionary Learning Methods for analysis of Biological Datasets
ADVISORS: Dr. Badrinath Roysam and Dr. Jose-Luis Contreras Vidal

Sohini Sengupta
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Kaige Yan
Efficient Computer System Designs to Improve the Mobile User Experiences
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ADVISOR: Dr. Craig Glennie

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Taofeek Olumuyiwa Biobaku
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ADVISOR: Dr. Gino J. Lim

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**ADVISOR:** Dr. Gino Lim

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**ADVISOR:** Dr. Jae-Hyun Ryou

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Solution Fabrication for Multifilamentary tapes of the Second Generation High-Temperature Superconductor
**ADVISOR:** Dr. Venkat Selvamanickam

Dahye Lee
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**ADVISOR:** Dr. Dmitri Litvinov

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**ADVISOR:** Dr. Yan Yao

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**ADVISOR:** Dr. Anastassios Mavrokefalos

Farah Hammami Kammoun
Atomistic Modeling of Nanostructures via Molecular Dynamics and Time-Scaling Methods
**ADVISOR:** Dr. Yashashree Kulkarni

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**MASTER OF CHEMICAL ENGINEERING**

Michael Gerber
Praveen Pradeep

**MASTER OF SCIENCE IN CHEMICAL ENGINEERING**

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**MASTER OF SCIENCE IN CIVIL ENGINEERING**

Sai Anudeep Reddy Maddi
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**MASTER OF ELECTRICAL ENGINEERING**

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Tariq Khan
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Master of Science in Environmental Engineering
Piluja Sivananthan

Master of Industrial Engineering
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Changning Li
Bharat Mantha

Master of Science in Subsea Engineering
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Ahmed Abayomi Olayiwola
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Bachelor of Science in Chemical Engineering
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Jorge D. Jimenez
Justin Noel Loveless
Dominic James Mak
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Bachelor of Science in Industrial Engineering
Jessica Olvera

Bachelor of Science in Mechanical Engineering
Brittany Bleau Caughron
Jonathan Travis Graham
Brian Khanh Le
Tasneem Mohamed
Alexander James Pearsall
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.

Words and music by Harmony Class of 1942
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** | **Gown:** Black  
|                         | **Tassel:** Orange |
| **Master's Degrees**   | **Gown:** Black  
|                         | **Hood:** Orange  
|                         | **Tassel:** Black |
| **Doctoral Degrees**   | **Gown:** Black  
|                         | **Hood:** Dark Blue  
|                         | **Tassel:** Old Gold |
A special thanks to the Convocation Committee and volunteers who assisted in making this memorable event possible.

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Convocation Co-Coordinator and Administrative Assistant

Brandon Green  
Convocation Co-Coordinator and Academic Records Coordinator

Shirley Mate  
Academic Advisor III

Miranda Vernon-Harrison  
Director of Graduate Student Affairs

Roshawnda Anderson  
Assistant Dean of Administration

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