

# Senior Design Conference

## Schedule of Events

10:00 am to 12:00 pm	Concurrent Design Presentations
12:00 pm to 1:00 pm	Break
1:00 pm to 3:00 pm	Concurrent Design Presentations

**Friday, May 1, 2020**

**Discipline Abbreviations:**

AE = Architectural Engineering  
CH = Chemical Engineering  
CE = Civil Engineering  
CS = Computer Science  
EV = Environmental Engineering  
ME = Mechanical Engineering  
MD = Multi-Disciplinary Projects  
NG = Natural Gas Engineering

EE = Electrical Engineering

EV = Environmental Engineering

ME = Mechanical Engineering

MD = Multi-Disciplinary Projects

NG = Natural Gas Engineering

Session	Chemical	Environmental / Natural Gas	Architectural	Mechanical	Electrical	Civil	----	Computer Science	Chemical
Moderator	Arvind Nanduri	Dr. Ramirez	Dr. Aguiniga	Dr. Ozcelik	Dr. Smith	Dr. Bailey	----	Dr. Goyal	Shreesh Kulkarni
Assistant	Joaquin Moreira	Muhammed Chowdury	Sanket Vaghasiya	ChengCheng Gu	Abdullah Hadi	Aramide Akintunde	----	Muath Bani Salim	Srikanth Bashetty
Judges	Dr. Patrick Mills, Olga Pena de Moreno Dr. Nazmul Rahmani	Vinay Kumar Akshay Mohikar Bhavesh Ranka John Thompson	Daniel Gusme Grace Souder Dr. Hui Shen	Dr. Shah Alam Hakan Celep Dr. Hong Zhou	Krystal Devos David Ford Jose Hernandez Ramon Saenz	Javier Aldava Dr. Osama Al-Hamdan Dr. Jong Won Choi William Hayes Doug Lawrence	----	Dr. Habib Ammari David Solis Dr. George Toscano	Prabal Saxena Dr. Chongwei Xiao Terry Smith Kenneth Nelson
10:00 am	CH1 - Acetone from the Dehydrogenation of Isopropanol	EV1 - The City of Pflugerville Central Wastewater Treatment Plant Expansion	AE1 - The Design of the New Student Activity Center	ME1 - Meyer Inc.: Blowout Preventer Accumulator Lockout System	EE1 - Smart LED Evacuation System	CE11 - Design of New Gas Station	----	CS1 - Mindful: A Mental Health Support App	CH9 - Vinyl Chloride from Ethylene and Hydrochloric Acid
10:30 am	CH2 - Synthesis of Oxalic Acid from Molasses and Nitric Acid	EV2 - The City of Pflugerville Central Wastewater Treatment Plant Expansion	AE2 - Human Science Building	ME2 - ASME UARC/V Drone Competition	EE2 - Pedal Powered Generator	CE10 - Improvement of Corpus Christi Marina	----	CS2 - A Virtual Reality Classroom Environment	CH10 - Phenylalanine from Glycerol
11:00 am	CH3 - Synthesis of Triethanolamine from Ethylene Oxide and Ammonia	NG1 - Acid Gas Injection System	AE3 - The Design of the New Student Activity Center	ME3 - Process Steam Boiler Design	EE3 - Smart Water Monitor	CE15 - Improvement of West Huisache Avenue	----	CS3 - Cybersecurity of Battery Management Systems	CH11 - Dimethyl Terephthalate from P-Xylene
11:30 am	CH4 - Dibutyl Ether from 1-Butanol	NG2 - Well Production Enhancement using a Subsea Multiphase Pump	AE4 - New Dormitory on Joseph Claude Martin, Jr. Hall Plot	ME4 - SAE Baja (Drivetrain Design) Competition	EE4 - Smart Grid Education and Design	CE4 - Improvement of Parker Park in Corpus Christi	----	CS4 - Perfect Partner: A Relationship Reminder and Planning App	CH12 - Ethyl Acetate from Ethanol and Acetic Acid
12:00 pm LUNCH BREAK									
Session	Chemical	Natural Gas/Chemical	----	Mechanical	Electrical	Civil	----	Mechanical	Chemical
Moderator	Arvind Nanduri	Dr. Ramirez	----	Dr. Ozcelik	Dr. Smith	Dr. Bailey	----	Dr. Peel	Shreesh Kulkani
Assistant	Joaquin Moreira	Muhammed Chowdury	----	ChengCheng Gu	Abdullah Hadi	Aramide Akintunde	----	Muath Bani Salim	Srikanth Bashetty
Judges	Dr. Patrick Mills, Olga Pena de Moreno Dr. Nazmul Rahmani	Vinay Kumar Akshay Mohikar Bhavesh Ranka John Thompson	----	Dr. Shah Alam Hakan Celep Dr. Hong Zhou	Krystal Devos David Ford Jose Hernandez Ramon Saenz	Javier Aldava Dr. Osama Al-Hamdan Dr. Jong Wong Choi William Hayes Doug Lawrence	----	Hal Dantone Wesley Kinkler Dr. Choongbae Park	Prabal Saxena Dr. Chongwei Xiao Terry Smith Kenneth Nelson
1:00 pm	CH5 - Production of Acrylic Acid from Propylene Oxidation	NG3 - Drill String and Casing Design	----	ME5 - SAE Baja (Suspension Design) Competition	EE5 - Smart Distribution Panel	CE5 - Vacation Homes in Port Aransas	----	ME8 - Sustainable Energy Systems for Proposed TAMUK COE Building	CH13 - Ethylene from Ethane
1:30 pm	CH6 - Synthesis of Styrene from Ethylbenzene	CH17- Extraction of Pectin from Orange Peels	----	ME6 - HVAC System for Commercial Building	EE6 - Semi-Modular Audio Synthesizer	CE16 - Design of New Supermarket	----	ME9 - TSGC:Greywater Recycling for Lunar Habitat	CH14 - Propylene from Synthetic Gas
2:00 pm	CH7 - Synthesis of DME from Methanol	CH18 - Production of Bioethanol from Seaweed	----	ME7 - Condenser Tube Design for Chilled Water System	EE7 - Smart Smoke Detector	----	----	ME10 - Heat Recovery of a Combustion Engine using Thermoelectric Generator Technology	CH15 - Ethanol from Corn
2:30 pm	CH8 - Synthesis of Maleic Anhydride from N-Butane	CH19 - Production of Clean Water through Biomaterial Filtration	----	----	EE8 - Solar PV Controller	----	----	----	CH16 - N-Butyl Acetate from N-Butanol
3:00 pm CONFERENCE ENDS									