### Senior Design Conference

**Schedule of Events**

**Friday, May 3, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30 am</td>
<td>Dean's Welcome</td>
</tr>
<tr>
<td>10:00 am</td>
<td>Concurrent Design Presentations</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>Concurrent Design Presentations</td>
</tr>
</tbody>
</table>

**Discipline Abbreviations:**

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

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<table>
<thead>
<tr>
<th>Room</th>
<th>Gross 110</th>
<th>McNeil 308</th>
<th>ENGC 109</th>
<th>ENGC 107</th>
<th>McNeil 302</th>
<th>ENGC 113</th>
<th>Gross 111</th>
<th>ENGC 138</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session</td>
<td>Chemical</td>
<td>Environmental / Natural Gas</td>
<td>Chemical</td>
<td>Mechanical</td>
<td>Electrical</td>
<td>Civil</td>
<td>Civil</td>
<td>Computer Science</td>
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<tr>
<td>Moderator</td>
<td>Arvind Nanduri</td>
<td>Dr. Al-Qudah</td>
<td>Dr. Aguiniga</td>
<td>Dr. Peel</td>
<td>Dr. Park</td>
<td>Dr. Bailey</td>
<td>Dr. Sai</td>
<td>Dr. Goyal</td>
</tr>
<tr>
<td>Staff</td>
<td>Bery Tofiq</td>
<td>Dr. Gamboa</td>
<td>Gerald</td>
<td>Beth</td>
<td>Debbie</td>
<td>Stephanie</td>
<td>Lois</td>
<td>Rosenda</td>
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**Schedule Details:**

- **10:00 am**
  - CH1 - MTBE from MeOH  
  - EV1 - Bohl's WWTP Type I Reuse Permit and Plant  
  - ME1 - Desalination System  
  - EE1 - Autonomous Steering  
  - CE1 - Rehabilitation of the West Ave A  
  - CE11 - Improvement of Kingsville Hospital Facilities  
  - CS1 - KingTech  
  - CH11 - Ethanol from Ethylene

- **10:30 am**
  - CH2 - Cumene from Benzene  
  - EV2 - Bohl's WWTP Type I Reuse Permit and Plant  
  - ME2 - Residential Steam Heating System  
  - EE2 - Fingerprint Vehicle Starter Project  
  - CE2 - Project Proposal for the West Ave B  
  - CE12 - Rehabilitation of Wafrah Road in Kuwait  
  - CS2 - SpaceCoders  
  - CH12 - Acetaldehyde from Acetic Acid

- **11:00 am**
  - CH3 - Methanol from Synthesis Gas  
  - EV3 - Bohl's WWTP Type I Reuse Permit and Plant  
  - ME3 - Feedwater Heat Exchanger  
  - EE3 - SMART Irrigation System  
  - CE3 - Renovation of Baseball Fields 4,5,6 of Dick Kleberg Park  
  - CE13 - Rehabilitation of Al-Jahra Road in Kuwait  
  - CS3 - Vital Recycling  
  - CH13 - Isobutylene from Isobutane

- **11:30 am**
  - CH4 - T-Butanol from Isobutane  
  - NG1 - Oil Well Performance Analysis and Optimization  
  - ME4 - Roof Mounted Cooling Tower  
  - EE4 - Smartcane  
  - CE4 - Improvement of Kingsville J.K. Northway Exposition Center  
  - CE14 - Restore Al Ataba Street in Baghdad  
  - CS4 - Garden Heroes  
  - CH14 - Isopropanol from Propylene

**LUNCH BREAK**

- **12:00 pm**
  - LUNCH BREAK

**Session**

- **Chemical** | **Natural Gas / Mechanical** | **Architectural** | **Mechanical / Multi-Disciplinary** | **Electrical** | **Civil** | **Civil** | **Computer Science** | **Chemical**

**Moderator**

- Arvind Nanduri | Dr. Ozcelik | Dr. Aguiniga | Dr. Peel | Dr. Park | Dr. Bailey | Dr. Sai | Dr. Goyal | Shreesh Kulkarni

**Staff**

- Bery Tofiq | Dr. Gamboa | Gerald | Beth | Debbie | Stephanie | Lois | Rosenda | Elizabeth

**Schedule Details:**

- **1:00 pm**
  - CH5 - Ammonia from Nitrogen and Hydrogen  
  - NG2 - Directional Drilling: Well Planning and Design  
  - ME5 - TAMUK Chilled Water Loop 1 Redesign  
  - EE5 - Microgrid Sensor System  
  - CE5 - Verni & Blanche Hubert Field Restoration  
  - CE15 - Restore Alkarafi Road in Kuwait  
  - CS5 - CheckUp  
  - CH15 - Methyl Formate from Methanol

- **1:30 pm**
  - CH6 - Aniline from Benzene  
  - NG3 - Estimation of Hydrocarbons in Place and Recovery Using Geological and Fluid Property Data  
  - ME6 - Javelina Student Improvement Center  
  - M6 - TSOC Project: Human-Tended Inflatable Outpost  
  - EE6 - Karenia Brevis Early Detection System  
  - CE6 - New Harhor Bridge Report  
  - CE16 - Desalination Water Plants in Kuwait  
  - CH16 - Olefins from Methanol

- **2:00 pm**
  - CH7 - Hydrazine from Ammonia  
  - ME7 - TAMUK Campus Thermal Energy Storage Tank System  
  - AE7 - Expansion of Javelina Stadium  
  - MD1 - Solar Powered Fuel Injection System for Lawnmowers  
  - EE7 - Fool-proof Alarm Clock  
  - CE7 - Design Rental Apartments in Corpus Christi  
  - CE17 - Design Shopping Mall in Kingsville  
  - CH17 - Phenol from Cumene

- **2:30 pm**
  - CH8 - Ethylene Glycol from Ethylene Oxide  
  - ME8 - Solar Salt Steam Boiler  
  - MD2 - TSOC Project: Hi Efficiency Thermal Cooling Garment  
  - EE8 - SPOT The Smarter Outlet  
  - CE8 - Reconstruction of West Corral Ave.in Kingsville TX  
  - CE18 - Improving Kingsville with Multi-Facilities  
  - CH18 - Snygas from Natural Gas

- **3:00 pm**
  - CH9 - Hexene & Octene from Ethylene  
  - ME9 - Dynamic Locking Glove  
  - MD3 - Central Heating and Cooling system for Cousins Hall  
  - EE9 - Voice-Activated Vehicle Control  
  - CE9 - Renovation of Kingsville Mosque  

- **3:30 pm**
  - CH10 - Pyrolysis Oils  
  - ME10 - Geothermal Heat Pump  
  - MD4 - Silent Drone  
  - CE10 - Design of New Restaurant with Sump Analysis

**CONFERENCE ENDS**