

<b>EML 4551: Ethics and Senior Project organization</b>		
<b>Final Presentations by Senior Design Project Teams (10 min Intro + 15 min Q&amp;A)</b>		
<b>11:45 pm – 12:00 pm Welcome by Dr. Benjamin Boesl, Undergraduate Program Director</b>		
<b>12:00am - 1:00 pm IAB AND MME FACULTY LUNCH</b>		
	EC 2830, Virtual Attendance through BlueJeans	EC2840
1:00 pm - 1:25 pm	<b>Metallic Particulate Removal from Laser Machining Process</b> <i>Mentor: Dr. Ben Boesl, Advisor: Mr. Marcos Balmaseda.</i> Students: Castillo, Fernando; Laborde, Lazaro; Medina, Diego; Viera, Kevin	<b>Roof-edge spoiler to reduce lifting force of hurricane on shingles/tiles</b> <i>Mentor: Dr. Kevin Boutsen, Advisor: Dr. Antao Chen</i> Students: Alshohomi, Khalefah M Kh R M; Fingal, Riyadh, Juan Antonio
1:25 pm - 1:50 pm	<b>Tabletop Spark Plasma Sintering (SPS) Furnace for Outreach and Education</b> <i>Mentor: Dr. Ben Boesl, Advisor: Dr. Agarwal and Dr. Zhang.</i> Students: Adams, Joel; Fernandez, Rodolfo; Torcida, Rodrigo; Lopez-Ibanez, Roberto	<b>Lambretta MIG1 Engine Development</b> <i>Mentor: Dr. Kevin Boutsen, Advisor: Dr. David Kelly</i> Students: Aldaham, Khalifah; Cabrera, Lisdaimis; Fuenmayor, Luis; Fuentes, Andres Sebastian; Garcia, Joan
1:50 pm - 2:15 pm	<b>Vacuum Sealed Transfer System for Spark Plasma Sintering (SPS) Dies</b> <i>Mentor: Dr. Ben Boesl, Advisor: Dr. Agrawal and Dr. Zhang.</i> Students: Hoxsie, Loren David; Johnson, Brendon; Khan, Ali; Salgado, Roger David	<b>Design of an Articulated Arm System for Race Car Ride Height Measurement</b> <i>Mentor: Dr. Kevin Boutsen, Advisor: Olivier Laine</i> Students: Alshammari, Barak A J M A; Asensio, Mario Lopez, George; Roque, Daniel; Shulterbrandt, David
2:15 pm - 2:40 pm	<b>Solar Harvester.</b> <i>Mentor: Dr. Alexandra Strong, Advisor: Dr. Andres Tremante.</i> Students: Alazemi, Fahad B N H H ; Molina, Jehisson; Redensky, Nathan; Rucoba, Jason; Uriarte, Patrick Adam	<b>Maximizing Aerodynamics on a Racing Helmet</b> <i>Mentor: Dr. Kevin Boutsen, Advisor: Dr. Cheng-Xian Lin</i> Students: Caldera, Maria Jose; Fleites, Christopher; Gutierrez, Helenn P; Rodriguez, Cristian Andres; Ceballos, Daniella
<b>2: 40 – 3: 00 PM COFFEE BREAK</b>		
3:00 pm - 3:25 pm	<b>Project SWEET: Transporting and Cleaning Water in Impoverished Rural Communities</b> <i>Mentor: Dr. Alexandra Strong, Advisor: Mr. Bob Hacker</i> Students: Bowyer, Andrew; Fiallo, Maria; Gomes, Randy; Pajon, Mauricio; Soto, Christopher	<b>Roof-edge spoiler to reduce lifting force of hurricane on shingles/tiles</b> <i>Mentor: Dr. Kevin Boutsen, Advisor: Dr. Antao Chen</i> Students: Agudelo, John C; Calvert, Camron; Dash, Brandon; Padilla, Victor Rodriguez; Gabriel Anthony Sassani Hedayati; Aynaz Venuz
3:25 pm - 3:50 pm	<b>Real-time decision-support and engineering system for endurance car racing race engineers</b> <i>Mentor: Dr. Alexandra Strong, Advisor: Dr. Scottie-Beth Fleming, Sandia National Labs.</i> Students: Cortina, Raydel; Fernandez-sanjenis, Gabriel; Garcia, David; Orona-Samms, NormaBat-Sheva V; Sotome, Mari	<b>Compact Patient Transfer System with an Electric Motor,</b> <i>Mentor: Dr. Ben Boesl, Advisor: Dr. Ibrahim Tansel</i> Students: Boado, Marla; Calle, Ian David; Del Moral, Enrique Hernandez, Frank; Vallejos, Jennifer Aime
3:50 pm - 4:15 pm	<b>2020 SAE Aero Design: Micro Class Design</b> <i>Mentor: Dr. Alexandra Strong, Advisor: Mr. Jackson Fadely.</i> Students: Canales, Holyeins Alexander; Correa Lozada, Daniel; De Oliveira, Marco Thomas; Padilla, Patrick Alexander; Yee-Fong, Matthew Esau	<b>Improving Fire-Fighter Communication in High-Rise Buildings</b> <i>Mentor: Dr. Ben Boesl Advisor: Mr. Danny Fernandez</i> Students: Alrayes, Nasser Salem N; De Jesus, Gabriel; Deniz, Misael Domingo; Hastings, Noah Matthew Tomas; Szydlowski, Mitchell Conor; Ochoa, Ana Karina