

## 2020 Inaugural Extreme Environments Conference

### Student Presentation Guide

#### Alamo Colleges District Presentations- 10:45 a.m. – 12:05 p.m.

10:45	<p><b>Presenter:</b> Nii Ndashie Adjei (Northwest Vista) and Haylie Schulmeier (Northeast Lakeview)</p> <p><b>CAMEE Research Mentors:</b> Drs. Sushil Prasad Wei Wang</p> <p><b>Research Title:</b> <i>The Use of Satellite Data to Predict Sea Ice Cover in the Polar Regions</i></p>
10:55	<p><b>Presenter:</b> Raul Flores (Palo Alto)</p> <p><b>CAMEE Research Mentor:</b> Dr. Yongli Gao</p> <p><b>Research Title:</b> <i>Improving Best Management Practices for Sensitive Karst Features on the Edwards Aquifer Recharge Zone</i></p>
11:05	<p><b>Presenter:</b> Marcelina Garcia (St. Philip's)</p> <p><b>CAMEE Research Mentor:</b> Dr. Kiran Bhaganagar</p> <p><b>Research Title:</b> <i>Visualization of COVID-19 and the World</i></p>
11:15	<p><b>Presenter:</b> Jacob Lyda (Palo Alto)</p> <p><b>CAMEE Research Mentor:</b> Dr. Adel Alaeddini</p> <p><b>Research Title:</b> <i>Introduction to Supervised Learning: Linear Regression Analysis</i></p>
11:25	<p><b>Presenter:</b> Andre Michon (San Antonio)</p> <p><b>CAMEE Research Mentor:</b> Dr. Alberto Mestas-Nuñez</p> <p><b>Research Title:</b> <i>Satellite Remote Sensing of Extreme Snowpack Melting on Eagle Island, Antarctica</i></p>
11:35	<p><b>Presenter:</b> David Perez (Palo Alto)</p> <p><b>CAMEE Research Mentor:</b> Dr. Wei Gao</p> <p><b>Research Title:</b> <i>Molecular Dynamics Simulations for Metallic Energy Potentials</i></p>
11:45	<p><b>Presenter:</b> Lyann Serrano (Northeast Lakeview)</p> <p><b>CAMEE Research Mentor:</b> Dr. David Restrepo</p> <p><b>Research Title:</b> <i>Buckling Analysis of Hexachiral Structure for use in Materials at NASA</i></p>
11:55	<p><b>Presenter:</b> Alejandro Zarate (St. Philip's)</p> <p><b>CAMEE Research Mentor:</b> Dr. Kiran Bhaganagar</p> <p><b>Research Title:</b> <i>Portable Modular Wind Sensing Technology</i></p>

# CAMEE Student Research Presentations- 1:00 p.m. – 3:30 p.m.

1:00	<p><b>Presenter:</b> Eugene Hoffman  <b>CAMEE PI:</b> Dr. Christopher Combs  <b>Title:</b> <i>Overview of UTSA's Mach 7 Ludwig Tube Wind Tunnel</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Aerodynamics</p>
1:15	<p><b>Presenter:</b> Jose Rodriguez  <b>CAMEE PI:</b> Dr. Christopher Combs  <b>Title:</b> <i>Shock-Wave/Boundary-Layer Interaction (SWBLI) Experiments in the NASA LaRC 31-Inch Mach 10 Wind Tunnel</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Aerodynamics</p>
1:30	<p><b>Presenter:</b> Gina Jozef  <b>CAMEE PI:</b> Dr. John Cassano  <b>Title:</b> <i>Observations of Arctic Atmospheric Boundary Layer with Small Unmanned Aerial Vehicles for MOSAiC</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Atmospheric Science</p>
1:45	<p><b>Presenter:</b> Elina Valkonen  <b>CAMEE PI:</b> : Dr. John Cassano  <b>Title:</b> <i>Arctic Cyclones and Their Interactions with Declining Sea Ice</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Atmospheric Science</p>
2:00	<p><b>Presenter:</b> Daniel Brun  <b>CAMEE PI:</b> Dr. Kiran Bhaganagar  <b>Title:</b> <i>Tip Vortex Generation Analysis of a Multicopter Unmanned Aerial Vehicles for Accurate Atmospheric Boundary Layers Measurements</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Modeling</p>
2:15	<p><b>Presenter:</b> Jesse Slaten  <b>CAMEE PI:</b> Dr. Kiran Bhaganagar  <b>Title:</b> <i>Turbulent Entrainment of Heated Buoyant Starting Plumes in a Neutral Atmosphere</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Modeling</p>
2:30	<p><b>Presenter:</b> Karen Mendiondo  <b>CAMEE PI:</b> Dr. Alberto Mestas-Nuñez  <b>Title:</b> <i>Processing Ocean Current Velocity Observations from the SeaExplorer Underwater Glider: Relevance, Challenges, and Solutions</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Ocean Science</p>
2:45	<p><b>Presenter:</b> Christian Sustayta  <b>CAMEE PI:</b> Dr. Alberto Mestas-Nuñez  <b>Title:</b> <i>Comparison of Geostrophic Current Estimations from Buoyancy Gliders and Satellite Altimetry</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Ocean Science</p>
3:00	<p><b>Presenter:</b> Elizabeth Hebel  <b>CAMEE PI:</b> Dr. Hongjie Xie  <b>Title:</b> <i>Evaluating Ice Production of Ross Ice Shelf and Terra Nova Bay Polynyas during 2019 using Sentinel-1 SAR Images and ICESat-2 data</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Polar Science</p>
3:15	<p><b>Presenter:</b> YoungHyun Koo  <b>CAMEE PI:</b> Dr. Hongjie Xie  <b>Title:</b> <i>Temporal variations of CryoSat-2 and ICESat-2 sea ice freeboard around SIMBA buoys of MOSAiC expedition</i></p> <p style="text-align: right;"><b>CAMEE Research Focus Area:</b> Polar Science</p>

