CIMA 2020 VIRTUAL STEM RESEARCH

7TH ANNUAL ~ 1st VIRTUAL SYMPOSIUM

	See Group Presentations	See Group Presentations	NASA Research Title:	Research Title: Plant Metabolite	Research Title: "Novel 4.4'-
	Research Title: Functional insight into insect TULIP proteins from 3D homology modeling	Research Title: Creating Efficient and Affordable Face Masks to Combat COVID-19	Visualization of Covid-19 and the World. Presenter: Marcelina Garcia,	Extraction Protocol and Investigation of Forest Disturbance effects on Costa Rican Howler Monkeys	dimethoxy-2,2'-dipyridyl copper (II) acetamide complex with remarkable antitumor activity"
	Presenter 2: Chrishall Armstrong, Biology Research Mentor: Dr. Robert Renthal, University of Texas at San Antonio	Presenter 1: Ta'Lya Brooks, Mechanical Engineering Research Mentor: Ravi Martinez, Southwest Research Institute	IT-Cyber Security Research Mentor: Dr. Kiran Bhaganagar, University of Texas at San Antonio	Presenter: Christian Ramirez, Microbiology Research Mentor: Dr. Mary Kelaita, St. Philip's College	Presenter: Michelle Ochoa, Biology Research Mentor: Dr. Rafael Adrian, University of the Incarnate Word
St. Philip's College	See Group Presentations Research Title: A Search for Nitrogen-fixing Microorganisms in Tillandsia recurvata from South Texas Presenter 3: John Nguyen, Biology Research Mentor: Lourdes Alba, St. Philip's College	See Group Presentations Research Title: A Search for Nitrogen-fixing Microorganisms in Tillandsia recurvata from South Texas Presenter 4: Essie Richardson, General Science Research Mentor: Lourdes Alba, St. Philip's College	Research Title: Assessing Learning and Executive Function in Marmosets (Callithrix jacchus) for Human Application Presenter: Valjean Romero, Biology Research Mentor: Dr. Corinna Ross, Texas A&M University San Antonio	Research Title: Glial Cells: Extracellular Vesicular Release Mechanics and Composition Presenter: James Smith, Biology Research Mentor: Dr. Natasha Sosanya, U.S. Army Institute of Research (USAISR)	See Group Presentations Research Title: Functional insight into insect TULIP proteins from 3D homology modeling Presenter 3: Elizabeth Villareal, Biology Research Mentor: Dr. Robert Renthal, University of Texas at San Antonio
	NASA Research Title: Portable Modular Wind Sensing Technology Presenter: Alejandro Zarate, Engineering Research Mentor: Dr. Kiran Bhaganagar, Co-PIs: Daniel Brun, and Ethan Beeman, University of Texas at San Antonio	See Group Presentations	See Group Presentations	See Group Presentations	See Group Presentations

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	See Group Presentations	See Group Presentations	See Group Presentations	See Group Presentations	Research Title: Copper (II)
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	Research Title: Functional insight	Research Title: Prototype	Research Title: Creating	NASA Research Title: The use of	Potential Anti-Tumor Agents:
	into insect TULIP proteins from 3D	Scalable Solar-Powered	Efficient and Affordable Face	satellite data to predict Sea ice	Synthesis and Structural
	homology modeling	Aquaponics System	Masks to Combat COVID-19	cover in the polar regions	Characterization
Northeast Lakeview College	Presenter 1: Samin Alikhani, Biology Research Mentor: Dr. Robert Renthal, University of Texas at San Antonio	Presenter 2: Hannah Fanning, Engineering Research Mentor: Klaus Bartels, San Antonio College	Presenter 3: Amethyst Lewis, Biomedical Engineering Research Mentor: Ravi Novan, Southwest Research Institute	Presenter 1: Haylie Rachelle Schulmeier, Biology Research Mentor: Dr. Wei Wang, Dr. Sushil Prasad, & Dr. Hongjie Xie	Presenter: Laura Olguin, General Science Research Mentor: Dr. Rafael Adrian, University of the Incarnate Word
	Research Title: Mapping Potential Freshwater Conservation Areas in the San Antonio Watershed	NASA Research Title: Buckling Analysis of Hexachiral Structure for use in Materials at NASA	See Group Presentations	See Group Presentations	See Group Presentations
	Presenter: Victoria Register, Biology Research Mentor: Dr. Brian G. Laub, University of Texas at San Antonio	Presenter: Lyann Serrano, Mathematics Research Mentor: Dr. David Restrepo, University of Texas at San Antonio	SMA-LS A	SNA-LS ₄	STA-LS A
	See Group Presentations	See Group Presentations	Research Title: Mapping	See Group Presentations	See Group Presentations
	NASA Research Title: The use of satellite data to predict Sea ice cover in the polar regions.	Research Title: Beach Cleaning Robot	Potential Freshwater Conservation Areas in The San Antonio Watershed	Research Title: Beach Cleaning Robot	Research Title: Creating Efficient and Affordable Face Masks to Combat COVID-19
	Presenter 2: Nii Nmashie Adjei, Information Assure and CyberSecurity Research Mentor: Dr. Wei Wang, Dr. Sushil Prasad, & Dr. Hongjie Xie	Presenter 2: Keter Cubas, Mechanical Engineering Research Mentor: Dr. Dan Dimitriu, San Antonio College	Presenter: Logan Day, Biology Research Mentor: Dr. Brian Laub, University of Texas at San Antonio	Presenter 3: Christian De Luna, Mechanical Engineering Research Mentor: Dr. Dan Dimitriu, San Antonio College	Presenter 2: Chris Garza, Mechanical Engineering Research Mentor: Ravi Novan, Southwest Research Institute
Northwest	See Group Presentations	Research Title: Utilizing Quantum	Engineering and Biology	See Group Presentations	See Group Presentations
Northwest Vista College	Research Title: Beach Cleaning Robot Presenter 1: Efrain Rivera, Computer Engineering Research Mentor: Dr. Dan Dimitriu, San Antonio College	Dots to Improve Solar Cell Efficiency Presenter: Castulo Villagomez, Physics Research Mentor: Dr. Arturo Ayon, University of Texas at San Antonio	Research Title: Prototype Scalable Solar-Powered Aquaponics System Presenter 1: Cameron Feldhusen, Engineering Engineering Research Mentor: Klaus Bartels, San Antonio College	See Group I resentations	See Group Feschiations

Palo Alto College	Research Title: The Marmoset Aging Project: Marmoset Locomotion Presenter: Addaline Alvarez, Biology Research Mentor: Dr. Corinna Ross, Texas A&M UniversitySan Antonio	Research Title: Artificial burrows as a conservation strategy for the Western Burrowing Owl Presenter: Isabel Castro-Martinez, Biology Research Mentor: Dr. Robert Miranda, Palo Alto College	Research Title: "Synthesis, Characterization and Antitumor Activity of a Novel Copper (II) Acetamide Complex with 4,4'-dimethyl-2,2'-bipyridine as Ancillary Ligand" Presenter: Amber Fuentes, Biology Research Mentor: Dr. Rafael Adrian, University of the Incarnate Word	NASA Research Title: Improving Best Management Practices for Sensitive Karst Features on the Edwards Aquifer Recharge Zone Presenter: Raul Flores, Engineering Research Mentor: Dr. Yongli Gao, University of Texas at San Antonio	NASA Research Title: Intro to Supervised Learning: Linear Regression Analysis Presenter: Jacob Lyda, Chemical Engineering Research Mentor: Dr. Adel Alaeddini, University of Texas at San Antonio
	NASA Research Title: Molecular Dynamics Simulations for Metallic Energy Potentials Presenter: David Perez, Engineering Research Mentors: Dr. Wei Gao, University of Texas at San Antonio	Research Title: Mapping of Fish Biodiversity in the San Antonio Watershed Presenter: Jamie Ramos, Biology Research Mentor: Dr. Brian Laub, University of Texas at San Antonio	Research Title: Analysis of audio recordings to better understand manatee vocalizations Presenter: Gabriella Rios, Biology Research Mentor: Dr. Robert Miranda, Palo Alto College	Research Title: Evaluating the Role of Capillary Stalls and Cerebral Blood Flow in Alzheimer's Disease Presenter: Lyndsy Stacy, Biology Research Mentor: Dr. Robert Miranda, Palo Alto College	See Group Presentations Research Title: A Search for Nitrogen-fixing Microorganisms in Tillandsia recurvata from South Texas Presenter 2: Victor Saloum, Biology, Palo Alto College Research Mentor: Lourdes Alba, St. Philip's College
San Antonio College	Research Title: Mapping Water Quality Impairments in the San Antonio River Watershed Presenter: Skyla Garcia, Biology Research Mentor: Dr. Brian Laub, University of Texas at San Antonio	See Group Presentations Research Title: Prototype Scalable Solar-Powered Aquaponics System Presenter 3: Eugenio Elizondo, Biology, San Antonio College Research Mentor: Klaus Bartels, San Antonio College	Research Title: Using Rhesus Macaque Blood Cell Counts to Identify Links Between Health and Behavior Presenter: Vida Fakhri, Biology Research Mentor: Dr. Robert Miranda, Palo Alto College	Research Title: Prototype Scalable Solar-Powered Aquaponics System Presenter 4: Paloma Cerda Garcia, Biology, San Antonio College Research Mentor: Klaus Bartels, San Antonio College	Research Title: Bee Bluff Gravity Anomaly Presenter: Elizabeth Keller, Environmental Science Research Mentor: Dwight Jurena, San Antonio College
	NASA Research Title: Satellite Remote Sensing of Extreme Snowpack Melting on Eagle Island, Antarctica Presenter: Andre Michon, Physics Research Mentor: Dr. Alberto Mestas-Nuñez, University of Texas at San Antonio	Research Title: Exploring the Relationship Between Blood Cell Counts and Health in Rhesus Macaques Presenter: Parisa Sharif, Biology Research Mentor: Dr. Robert Miranda, Palo Alto College	See Group Presentations	See Group Presentations	See Group Presentations

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Southwest Research Group: Engineering	University of Texas at San Antonio-Biochemistry
Research Title: Creating Efficient and Affordable Face Masks to Combat COVID-19	Research Title: Functional insight into insect TULIP proteins from 3D homology modeling
Presenter 1: Ta'Lya Brooks, Mechanical Engineering, St. Philip's College Presenter 2: Chris Garza, Mechanical Engineering, Northwest Vista College Presenter 3: Amethyst Lewis, Biomedical Engineering, Northeast Lakeview College Research Mentor: Ravi Novan, Southwest Research Institute	Presenter 1: Samin Alikhani, Biology, Northeast Lakeview College Presenter 2: Chrishall Armstrong, Biology, St. Philip's College Presenter 3: Elizabeth Villareal, Biology, St. Philip's College Research Mentor: Dr. Robert Renthal, University of Texas at San Antonio
University of Texas at San Antonio: NASA CAMEE Research	Biology
Research Title: The use of satellite data to predict Sea ice cover in the polar regions	Research Title: A Search for Nitrogen-fixing Microorganisms in Tillandsia recurvata from South Texas
Presenter 1: Haylie Rachelle Schulmeier, Biology, Northeast Lakeview College Presenter 2: Nii Nmashie Adjei, Information Assure and CyberSecurity, Northwest Vista College Research Mentor: Dr. Wei Wang, Dr. Sushil Prasad, & Dr. Hongjie Xie	Presenter 1: Paloma Cerda Garcia, Biology, San Antonio College Presenter 2: Victor Saloum, Biology, Palo Alto College Presenter 3: John Nguyen, Biology, St. Philip's College Presenter 4: Essie Richardson, General Science, St. Philip's College Research Mentor: Lourdes Alba, St. Philip's College
Engineering and Biology	Engineering
Research Title: Prototype Scalable Solar-Powered Aquaponics System	Research Title: Beach Cleaning Robot
Presenter 1: Cameron Feldhusen, Engineering, Northwest Vista College Presenter 2: Hannah Fanning, Engineering, Northeast Lakeview College Presenter 3: Eugenio Elizondo, Biology, San Antonio College Presenter 4: Paloma Cerda Garcia, Biology, San Antonio College Research Mentor: Klaus Bartels, San Antonio College	Presenter 1: Efrain Rivera, Computer Engineering, Northwest Vista College Presenter 2: Keter Cubas, Mechanical Engineering, Northwest Vista College Presenter 3: Christian De Luna, Mechanical Engineering, Northwest Vista College Research Mentor: Dr. Dan Dimitriu, San Antonio College
Engineering	Engineering and Mathematics
Research Title: 2020 Prototype Hydrogen Fuel Cell Vehicle Presenter 1: Eleida Webb, Engineering, San Antonio College Presenter 2: David Alejandro, Engineering, San Antonio College Presenter 3: Bryon Martinez, Engineering, San Antonio College Presenter 4: Pablo Garcia, Engineering, San Antonio College Research Mentors: Klaus Bartels, Alfred Alaniz, San Antonio College	Research Title: Research, Design, and Assembly of an Urban Concept Hydrogen Fuel Cell Vehicle Presenter 1: Krystal Paul, Engineering, San Antonio College Presenter 2: Seraiah Lopez, Engineering, San Antonio College Presenter 3: Mahpara Fariha, Engineering, San Antonio College Presenter 4: Jared Chamblee, Engineering, San Antonio College Presenter 5: Jorge Leon-Cervantes, Engineering, San Antonio College Presenter 6: Jerry Ozuna, Engineering, San Antonio College Presenter 7: Riley Jones, Mathematics, San Antonio College Presenter 8: Enrique Ayala, Engineering, San Antonio College Research Mentors: Klaus Bartels, Dr. Dan Dimitriu, Alfred Alaniz, San Antonio College