

University of Houston  Clear Lake

Program for the 2024
University of Houston-Clear Lake
Student Conference
for Research & Creative Arts
April 22th – April 27th

Monday, April 22, 2024

College of Human Sciences and Humanities

Plenary Session

9:00 a.m. Forest Room

Faculty Chair: Giazú Enciso Domínguez

Guest Speakers:

Yvonne Russell

Cindy Razo

Emily de Dios

Haley Briggs

Title: The Ethics of Love Between Traditional Gender Roles.

Guest Speakers: Yvonne D. Russell

Title: Attachment Anxiety In Relationships.

Presenter: Madison N. Lyons

Title: The Inaccessibility of Third Places in South Houston.

Presenter: Aspen L. Truman

Title: The Struggle of the Youngsters.

Presenter: Rohin Raju

Title: Food Insecurity and Self Perception in College Students.

Presenter: Andrew Martin

Title: The Cyclical Nature of Poverty: The Effects of Redlining on Student Outcomes.

Presenter: Julia K. Farmer

Title: Social Media and how it is a useful tool in today's world.

Presenter: Haley E. Mumper

Title: Music and Identity.

Presenter: Hudson V. Murray

Title: Critical Understanding of Familism.

Presenter: Katerin Y. Rodriguez

Title: Male Sexual Assault.

Presenter: Savannah Knight

Title: Behavioral Mimicry's Application towards Study Groups.

Presenter: Kezia Vinu

Title: How social environments impact the mental health of children living in split homes.

Presenter: Ashley N. Garcia

Title: Post-Partum Depression in Young Mothers.

Presenter: Anslee K. Segers

Title: Pay Gap Between Female and Male Golfers.

Presenter: Saikati N. Gikonyo

Title: Final Presentation.

Presenter: Alejandro Gonzalez Perez

Monday, April 22, 2024

College of Human Sciences and Humanities

9:00 a.m. – 10:20 p.m. Bayou 3606

Faculty Chair: Kelsey James

Title: Weight Bias in Media Exposure.

Presenter: Maria G. Sosa Mendoza

Title: The Effectiveness of Reading versus Listening to Class Content Among Grad Students.

Presenter: Lizjalet J. Rodriguez

Title: Task Rotation and Worker Satisfaction.

Presenter: Fabian Garza

Title: Perceptions of Disability and Inspiration.

Presenter: Ashton M. Taylor

Title: Impact of Positive Feedback on Stress Levels and Arithmetic Performance.

Presenter: Maria Ahmed

Title: Color-Meaning Associations and Implicit Racial Bias.

Presenter: Emma Hildebrand

Title: Multitasking and Memory in Academic Settings.

Presenter: Courtney A. Shelby

Title: Congruence of Background Color and the Perception of Facial Emotion.

Presenter: kylie Forgy

Title: The Effects of Multimedia on Attention Span and Information Retention.

Presenter: Gift Dickerson

Title: Brief Sound Bath Effects on Mood Enhancement.

Presenter: karen Rodriguez

Title: Does Writing Positively Decrease Pessimism?

Presenter: Carolina C. Almeida

Title: Does the Music Really Help?: The Effects of Background Noise on Test Performance.

Presenter: Giuseppe Rossi

Title: Trust in Medical Professionals Using Diagnostic AI and Perceived Accuracy of Diagnoses.

Presenter: Megan Keaster

Title: The Effect of Mental Active Recall Techniques on the Retention of Short Form Video Content.

Presenter: Dana S. Kongo

Title: An Exploration of Auditory Aids in Cognitive Tasks.

Presenter: Paige N. Simpson

Title: The Degenerative Effect of the "AI-Generated" Label on Subjective Appreciation of Visual Arts.

Presenter: Diego Salazar

Title: Reading and Cognitive Speed.

Presenter: Kelsie Cockeram

Title: The Influence Social Media has on Self-Esteem.

Presenter: Kaitlyn Cantu

Title: The Effects of Employment on Students: Work-Life Balance, Stress, and GPA.

Presenter: Sierra Morales

Title: Perceived Aggression in Athletes.

Presenter: Maia Schrempp

Monday, April 22, 2024

College of Science and Engineering

10:00 a.m. – 11:20 a.m. STEM 2101

Faculty Chair: Youssef Hamidi

Title: Low Cost Long-Lasting Valve Seal.

Presenter: Victor Guevara, Arlan Catney, Olivia Freeman, Richard Grumbles, Andrew Klein, Abdullah Nazzal, and David Patino

Title: Mobile Water Reclamation System for Solar Panel Maintenance in Arid Regions.

Presenter: Aidan Byrne, Matt Alatorre, David Cardozo, Jeffrey Gleasman, Gabriel Salazar, Herberto Salgado, Walker Sharpe, and Zuniga, Diego

Title: Boat Riding Using NASA Technology.

Presenter: Oscar Francorodriguez, Michael Schoppa, Luke Sammons, Julio Pinzon Jimenez, Thanh Pham, Darin Kliesing, Dawson Gonzalez, and Avery Barrera

Monday, April 22, 2024

College of Science and Engineering

11:30 a.m. – 1:00 p.m. STEM 2101

Faculty Chair: Youssef Hamidi

Title: Filament Winding.

Presenter: Richard R. Campos

Title: Autoclave Processing- Prepregs.

Presenter: George Janho

Title: Vacuum Assisted Resin Transfer Molding.

Presenter: Josue Montemayor

Title: Composite Manufacturing Techniques: Pultrusion.

Presenter: Sheikh T. Hussain

Title: Compression Molding for Composite Materials.

Presenter: Jeremy Maher

Monday, April 22, 2024

College of Human Sciences and Humanities

Plenary Session

2:00 p.m. Forest Room

Faculty Chair: Giazú Enciso Domínguez

Title: Discussing intersectionality: Race, Sex and Sexual Orientation in Contemporary Topics.

Guest Speaker: Professor Laura Kanter

Title: Mental Labor and Marginalization: Cognitive Division of Labor among Women of Color.

Presenter: Jocelyn R. Smith

Title: Critical Understanding of Familism.

Presenter: Katerin Y. Rodriguez

Monday, April 22, 2024

College of Education

5:00 p.m. – 6:30 p.m. Bayou 2237

Faculty Chair: Neelofer Tajani

Title: Rock and Roll.

Presenter: Gabriela De Freitas Leite Dos Reis

Title: Let's Play with Cars.

Presenter: Mehak Panjwani

Title: Ready for Rain.

Presenter: Heather Rittenour

Title: Saving our Planet Earth.

Presenter: Lizbethe Canales

Monday, April 22, 2024

College of Human Sciences and Humanities

7:00 p.m. Pearland 113

Faculty Chair: Lisa Sublett

Title: Passing the Buck: A study on the impact of leadership style on psychological safety of employees and the likelihood of the presence of the bystander effect.

Presenter: Marisa Mortensen, Saloni Desai, Mallori Sims, Genesis Terrazas

Title: Gender Bias and Participative Leadership.

Presenter: Julie Castillo, Lizet Pollen, David Portillo, Kaneisha Williams, Leyinska Alicea-Rodriguez

Title: Unveiling Leadership and Self-Efficacy Disparities Across Demographics in STEMM Professions: A Women's Perception.

Presenter: Taylor Houston, Saman Imran, Yasiry Lerma, and Alaina Manucso

Title: Remote Work and the Impact on Teams in the Workplace.

Presenter: Cassidy Merritt, Trine Rodriguez, Zéna Williams, and Johnelle Williams

Tuesday, April 23, 2024

College of Science and Engineering

9:30 am – 11:00 am STEM 1115

Faculty Chair: Kazi Billah

Title: Handheld Soft Robotics.

Presenter: Michael Schoppa, Abdullah Nazzal, Jose Ramirez, Mario Rodriguez

Title: Design and Manufacturing of a Sheet Metal Lamp.

Presenter: Aidan Byrne, Jerald Begay, Mohamad Elkhader, Alberto Torres, and Kelvin Bonilla

Title: Reverse Osmosis Desalination.

Presenter: Saifeel Maknojia, David Cordozo, Hunter Diaz, Joseph Gibson, and Brant Taylor

Title: Compacted Innovated Winmill Manufacturing.

Presenter: Diego Trejo, Moshin Mirchandani, Victor Guevara, and Jose Galdamez Mario

Title: Design and manufacturing of an internal combustion engine.

Presenter: Luke Sammons, Walker Sharpe, Tiger Xue, and Ailin Ocejo

Tuesday, April 23, 2024

College of Education

1:00 p.m. – 4:00 p.m. Arbor 1310.03

Faculty Chair: Neelofer Tajani

Title: Life Cycle of Plants.

Presenter: Najia Ali, Autumn Hodges, Annette Mercado

Title: A Dog's Life.

Presenter: Kyleigh Elgin, Candace Peyrefitte, Alyssa Skillern

Title: All about Chickens.

Presenter: Gloria Castillo, Kaylee Valentine

Title: The Frog Project.

Presenter: Elizabeth Edinburgh, Lizeth Parras, Marina Sanchez

Title: Watch us Grow.

Presenter: Lorraine Campos, Amber Jepson, Adriana Soto

Tuesday, April 23, 2024

College of Human Sciences and Humanities

Poster Session

4:00 p.m. Bayou 3607

Faculty Chair: Christal Seahorn

Title: Mental Health Stigma: A Barrier to Seeking Help Among UHCL College Students.

Presenter: Amber M. Carter

Title: Unplugged: Digital Media Use and Sleep in College Students.

Presenter: Anna S. Abrego Soriano

Title: ADHD and Study With Me: The Implications of Online Body-Doubling on Executive Function.

Presenter: Kezia Vinu

Tuesday, April 23, 2024

College of Education

4:40 p.m. Bayou 2237

Faculty Chair: Omah Williams-Duncan

Title: Navigating Time: Enhancing Time-Management Skill for First-Generation Graduate Students Through Goal-Setting Interventions.

Presenter: Herlisa Gumbs

Title: The Effectiveness of IXL in a 6th Grade Mathematics Classroom.

Presenter: Denise Martinez

Title: A Study of Student Perspectives on Academic Support Services at the University Level.

Presenter: Matthew W. Chan

Title: The Quality of Instruction in a Social Studies Classroom.

Presenter: Yamilet Quintanilla

Title: Supporting Online Assessments.

Presenter: Haleigh Conklin

Tuesday, April 23, 2024

College of Human Sciences and Humanities

7:00 p.m. – 8:30 p.m. Bayou 2236

Faculty Chair: Christine Kovic

Title: Bolivian Foodways in the Greater Houston Area

Presenter: Tria M. Van Horn

Title: Changing Foodways and Health among Mexican Americans

Presenter: Cristal Cortez

Title: Food as a Tie to Home: Zimbabwe to Houston

Presenter: Erin Graham

Title: Food Security and Gender: From Liberia to Houston

Presenter: Mokuia Makori

Title: Persian Foodways in Texas: One Refugee's Story

Presenter: Pete Torres

Wednesday, April 24, 2024

College of Human Sciences and Humanities

9:00 a.m. – 11:50 a.m. Bayou 3606

Faculty Chair: Robert Bartsch

Title: Is there a significant relationship among divorce and separation, due to age, sex, race, and financial stability.

Presenter: Angelice N. Smith, Adriene Williams, Angelica Gonzalez, and Kate Ledwith

Title: Analyzing Relationships Between Marital Status, Number of Children, and Whether an Individual Feels They Are Spending an Appropriate Amount on Childcare.

Presenter: Ashlee T. Parchmont, Gilliam Respondek, Krissy Pena, and Martha Gonzalez

Title: Relationship Between Happiness, Employment Status, and Gender.

Presenter: Anna S. Abrego Soriano, Savannah Graves, Isabel Diaz, and Nick Rodriguez

Title: Relationship between Work and Personal Life.

Presenter: Preston S. Walker, AJ Blando, Christina Hernandez, and Bella Flores

Title: Examining the Interplay Between Socioeconomic Class, Happiness, and Age

Presenter: Madalyn I. Bazan, Mariah Sosa, and Arlett Ibarra

Title: Does a Mother's Occupation Impact Her Relationship with Her Child?

Presenter: Elizabeth Casas, Elia Carter, and Mercedes Miller

Title: Relationship Between Number of Children and Health

Presenter: Vanessa Keith, Sydney Ragone, and Therese Bryan

Wednesday, April 24, 2024

College of Science and Engineering

10:00 a.m. – 11:20 a.m. STEM 2101

Faculty Chair: Youssef Hamidi

Title: Easy-shade Umbrella

Presenter: Sylas Anderson, Tiger Xue, Jose Ramirez, Samuel Rojas, Mario Galdamez, Brayan Diaz, Moshin Mirchandani, and Mario Rodriguez

Title: Dust Tolerant Quick Disconnect.

Presenter: Kelvin Bonilla, Peter Bowling, Ros'Lynn Charles, Joseph Gibson, Saifeel Maknojia, Gilmart Roman, Luis Salinas, Diego Trejo

Title: Inflatable Structure for Multi-Situational Use

Presenter: Jerald Begay, Adam G Kennedy, Alberto Leon, Magaly N Chavarria, Elias N Fuentes, Ricardo Arechiga De La Rosa, Thanh Van Phan

Wednesday, April 24, 2024

College of Science and Engineering

11:30 a.m. – 1:00 p.m. STEM 2101

Faculty Chair: Youssef Hamidi

Title: Injection Molding Manufacturing Process.

Presenter: Christopher Garcia

Title: Resin Transfer Molding.

Presenter: Hunter C. Van Wagner

Title: Wet Lay-Up-Vacuum Bagging Manufacturing of Composite Materials..

Presenter: Brock O. Helpenstill

Title: Liquid Composite Manufacturing.

Presenter: Kain J. Aguirre

Wednesday, April 24, 2024
College of Science and Engineering

Poster Session
1:00 p.m. - STEM2113
Faculty Chair: Sachiyo Mukherji

Title: The Eco-Friendly Solution: How Composting Reduces Waste in Landfills.

Presenter: Chelsey B. Hill, Xander Arabia, Shaylyn Dunlap, Andrea Rodriguez, and Nathan Shaw

Title: Effectiveness of Home Composting to Degrade PHA Plastics.

Presenter: Ethan B. Crocker, Thea Condell, Nicholas Lewis, and Logan Symmons

Title: Environmental Benefits of Organic Home Composting Systems.

Presenter: Joey S. Schoppe, Jasmine Sanchez, Madison Huie, Toby Smith, and Jerdel Delsol

Title: Factors that Contribute to Productivity of a Home Compost System in Degrading Selected Plastic Products.

Presenter: Daniel S. Mosqueda, Alicia Mathis, Paloma Barrientos, Joe Spencer, and Abby Villarreal

Wednesday, April 24, 2024

College of Business

Mock Trial - Plenary Session

4:00 p.m. – 7:00 p.m. Bayou 1324

Faculty Chair: Dr. Winifred Weber

Title: Mock Trial: The State of Texas vs. Echo Green

Presenters:

Elizabeth A. Miller

Jennifer Cornejo

Christie Garges

Kyra Haynes

Maddelyne Hernandez

Aubrey Mayo

Rolando Olveda

Juan Ramos

Cornelio Salinas

Vanessa Salmassi-Assadi

Maryam Shahid

Geoffrey Weiss

Wednesday, April 24, 2024

College of Human Sciences and Humanities

Poster Session

4:00 p.m. Forest Room

Faculty Chair: Anna Klyueva

Title: The Influence of eWOM and Satisfaction in Relation to Returning to do Collaborative Tourism.

Presenter: Ariana Aguila

Title: LGBT Messages and Views in 2000's Horror Films.

Presenter: Gabriel Sebesta

Title: The Influence of Mom Bloggers on Parenting Trends and Consumer Purchases.

Presenter: Jessica Ballard Bennett

Title: Coulrophobia; How Negative Media Portrayal Contributes to Personal Fear.

Presenter: James Jurewicz

Title: Cultural Influences on Gestures in Virtual Reality Interfaces.

Presenter: Rucha Kulkarni

Title: Communicating Culture Through Music.

Presenter: John Stubblefield

Title: Slasher Movies vs Psychological Thrillers.

Presenter: Kendall Giles

Title: Why is Canva preferred over Photoshop?

Presenter: Princeton Fernandes

Wednesday, April 24, 2024

College of Human Sciences and Humanities

Poster Session

4:00 p.m. Forest Room

Faculty Chair: Giazú Enciso Domínguez

Title: Qualitative and Quantitative research on Social Sciences – Poster Session.

Guest Speaker: Cory McGregory, MA. Career Counselor

Title: Mental Health Stigma: A Barrier to Seeking Help Among UHCL College Students.

Presenter: Mimansa Shukla

Title: Experiences of the Autism Label: A Parental View.

Presenter: Ana G. Mena

Title: Invisibility: No One Gets Left Behind or Forgotten.

Presenter: Nicholas Eisen

Title: Gendered Thrones: Kings, queens, and eunuchs, oh my!

Presenter: Kailey N. Horne

Title: Devil Within the Mines: Belief of Miners in Potosi, Bolivia.

Presenter: Tria M. Van Horn

Title: Don't Forge the Children: Academic and Psychological Outcomes of Children of Queer Families due to Structural Intersectionality.

Presenter: Jae M. Booth

Title: Discrimination in home ownership amongst blacks in America.

Presenter: Michael Berry

Title: "I Don't See Color" - Representation in the Media.

Presenter: Rashelle D. Dann

Title: The Experience of the Rehoused in the Greater Houston Area.

Presenter: Keaton Jones

Title: Young People's Experiences with Music and Mental Wellness.

Presenter: Yasmin C. Banda

Title: Comfort or Oppression: Exploring Black Women's Migratory Experiences within the African Diaspora.

Presenter: Mokua T. Makori

Title: Mental Labor and Marginalization: Cognitive Division of Labor among Women of Color.

Presenter: Jocelyn R. Smith

Title: The Experience of Divorce from an Interracial, Same-Sex Marriage.

Presenter: Corey A. Grant

Title: Anxiety Across Borders.

Presenter: Antonio Celio-Guevara

Title: "If I rise you won't fall" Gender equity is not zero sum.

Presenter: Alisa Crosby

Title: Commutuality and the American Gun Debate.

Presenter: Mofolorunso Enigbokan

Thursday, April 25, 2024

College of Science and Engineering

9:30 am – 11:00 am STEM 1115

Faculty Chair: Kazi Billah

Title: Mobile Lifting Device.

Presenter: Olivia Freeman, Thanh Pham, and Gilmartin Torres

Title: Manufacture of an Oil Derrick Pump.

Presenter: Diego Zuniga, Oscar Francorodriguez, Adam Kennedy, and Syllas Anderson

Title: Rocket Launcher Prototype.

Presenter: Magaly Chavarria, Luis Salinas, Peter Bowling, and David Patino

Title: Universal Battery Pack.

Presenter: Andrew Klein, Braylan Diaz, Jaime Ventura Ramos, and Matt Alatorre

Title: Automatic Hammer.

Presenter: Julio Pinzon, Darin Kliesing, Alberto Leon, and Thanh Phan

Thursday, April 25, 2024
College of Human Sciences and Humanities

Behavior Analysis Symposium
4:00 p.m. – 7:00 p.m. Bayou 1311
Faculty Chair: Dorothea Lerman

Title: Teaching Mand for Competing Stimuli as a Strategy to Mitigate Satiation.

Presenter: Carson B. Whitford, Jennifer N. Fritz, & Alexis N. Cano

Title: A Practical Approach to Increasing Cooperation During Medical Exams: Intervention for Neurodiverse Patients.

Presenter: Abigail K. Konecki, Dorothea C. Lerman, Robert K. Lehardy

Title: Training Caregivers of Adults with IDD to Increase Tolerance of Positive Airway Pressure Therapy: A Systematic Replication.

Presenter: Frances G. Feliciano

Title: Using Joint-Control Training to Teach Receptive Identification with Adjectives to Children with Autism.

Presenter: Matt Dunnuck, Amanda King, Sarah Lechago

Title: Using Group Behavioral Skills Training to Teach Caregivers and Other Professionals to Respond Safely to Aggression.

Presenter: Kerri E. Kroen, Yashira Reyes-Rodriguez, Jennifer N. Fritz, Victoria Fletcher

Title: Social Validity of a Remote Behavioral Skills Training (BST) Package for Self-Management.

Presenter: Lorena Galvan

Title: Teaching Adults with Autism to Identify Strategic Topics to Open Conversations using Behavioral Skills Training.

Presenter: Claire Aragon, Candace Benjamin

Title: An Evaluation of Conversational Preferences of Neurotypical Adults.

Presenter: Candace Benjamin, Claire Aragon

Title: Teaching Children with Autism Spectrum Disorder to Mand "What Happened?" to Acquire Information on the Cause of an Environmental Change.

Presenter: Hannah Dean, Sarah Lechago, Jade-Santiago Rodrigues, Ashten Higginbotham, Audrey Wilbanks

Title: A Systematic Review of the Diversity, Equity and Inclusion (DEI) Literature in Behavior Analysis.

Presenter: Jade Santiago Rodrigues, Sarah Lechago, Hannah Dean, Sofía Urdaneta

Thursday, April 25, 2024

College of Human Sciences and Humanities

7:00 p.m. – 9:00 p.m. Bayou 2230
Faculty Chair: Pearl Young

Title: “Other Orthodoxies”: Women’s Leadership Roles in American Orthodox Judaism, 1900 to the Present.
Presenter: Joseph M. Godwin

Title: Slave Religion and Women’s History - The Christianity of Slavery in the Antebellum South.
Presenter: Richard W. Gigout

Title: Melungeon Mythology and Mountain Religion: Exploring the Historiography Intersectional of Race and Religion in 20th-Century Appalachia.
Presenter: Michael D. Wolfe

Friday, April 26, 2024

College of Science and Engineering

Poster Session

12:00 p.m. - 1:00 p.m. Bayou 2512 (Hallway)

Faculty Chair: Jiang Lu

Title: CaNIKS (Campus Navigation and Information Kiosk System).

Presenter: Alexander Opekun, Andrew Steele, Aislynn Chavez, Ashley Chavez, Rishon Michael, Jared Blondeau

Title: P.A.C.S (Pulley Automated Camera System)

Presenter: Samantha Swan, Edgar Rivera, Kalena Williams, Carlos Martinez

Title: Automatic Cat Feeder.

Presenter: Christina Samuel, Rigoberto Trevino, Claudia Sierra, Phat Tran

Title: Remote Turret.

Presenter: Dacota McGlothlin, Israr Ahmed, Noha Nagesh

Title: Spacial Positioning, Observation and Tracking System.

Presenter: Cruz Gustavo J, Jeffries Drew, Lopez Ricardo Daniel, Nicole Poventud, Diego Rojas

Friday, April 26, 2024

College of Science and Engineering

Poster Session

2:00 p.m. – 5:00 p.m. STEM 1115

Faculty Chair: Kazi Billah

Title: Hand Carrier for Lunar EVA Tools by Artifices Lunaris.

Presenters: Buvaneshraj Saravanan, Adrian Garcia, Blair Mitchell, and Omar Tubeishat

Title: Lunar Mapbook and Mapbook Holder.

Presenters: Jacob Howard, Jeremy Maher, Josue Montemayor, and Ros'lynn Charles

Title: Integrated Camera and Lighting System For a Lunar Rover.

Presenters: Brendan Corr, Penafiel Roberto, Campos Richard, and Lai Long

Title: Mortar Style UAV Launch System.

Presenters: Khoa Phan and Brock Helpenstill

Title: Lunar PEV.

Presenters: Jose Amieva, Duc Mai, Hunter Van Wagner, and Alina Siddique

Title: Development of Wire Embedding Tool for Multifunctional Additive Manufacturing.

Presenters: Neel Rathod, Mario Barron Gonzalez, Ruben Lopez, and Kristian Torres

Title: Design of an Induction Heating Aluminum Extrusion System.

Presenters: Michael Krueger, Lisette Alcocer, and Luis Zavala

Saturday, April 27, 2024

College of Science and Engineering

8:40 a.m. – 10:20 a.m. Bayou 1335

Faculty Chair: Dr. Charuksha Walgama

Title: Peroxide Detection using Myoglobin Modified Bio Electrodes.

Presenters: Malcolm May

Faculty Sponsor: Charuksha Walgama

Time: 8:40 – 9:00

Title: Ag Labeled Electrochemical Bioassays: Effect of Silver Nanoparticle (AgNP) Size.

Presenters: Trang Bui

Faculty Sponsor: Charuksha Walgama

Time: 9:00 – 9:20

Title: Electrochemical detection of active pharmaceutical ingredients in over-the-counter medications using modified screen-printed electrodes.

Presenters: Monica Massoud, Chris Stephenson

Faculty Sponsor: Charuksha Walgama

Time: 9:20 – 9:40

Title: Chemical analysis of Electronic Nicotine Delivery Systems (ENDS) including E- cigarette.

Presenters: Joselyn Mata

Faculty Sponsor: Monica Khural

Time: 9:40 – 10:00

Title: Electrochemical Analysis of Selenium in Over the Counter Supplements.

Presenters: Cassandra Rodriguez

Faculty Sponsor: Charuksha Walgama

Time: 10:00 – 10:20

Saturday, April 27, 2024

College of Science and Engineering

9:00 a.m. – 10:00 a.m. Bayou 1133

Faculty Chair: Dr. Trish Trubl

Title: Effects of Herbicide on Biodiversity in Pond Ecosystems.

Presenters: Hasan Qamar and Brennan Gukhool

Faculty Sponsor: Trish Trubl

Time: 9:00 – 9:20

Title: Effects of Antifreeze on Biodiversity in Pond Ecosystems.

Presenters: David Tedross, Ogiso Mathews, and Christian Avalos

Faculty Sponsor: Trish Trubl

Time: 9:20 – 9:40

Title: The Anatomical and Physiological Effects of Magnesium Deficiency in Pea Plants.

Presenters: Vanessa L. Melendez, Jasmine M. Trujillo, Pricilla De La Torre, and Diana C. Reynaud

Faculty Sponsor: Trish Trubl

Time: 9:40 – 10:00

Saturday, April 27, 2024

College of Science and Engineering

10:30 a.m. – 11:50 a.m. Bayou 1335

Faculty Chair: Dr. Serkan Caliskan

Title: A Comparative Study of Cathode/Anode Materials for Sodium-Ion Open Circuit Batteries.

Presenters: Alexander Stefan

Faculty Sponsor: Serkan Caliskan

Time: 10:30 – 10:50

Title: Comparative Analysis of Boron Fullerene, Titanium Doped Boron Fullerene, and Lithium Doped Boron Fullerene for Hydrogen Storage Through Adsorption.

Presenters: Arielle Slaten

Faculty Sponsor: Serkan Caliskan

Time: 10:50 – 11:10

Title: Study of Doped and Pristine Carbon-based Fullerenes (C60) for Effective Hydrogen Storage Applications.

Presenters: Mohammed Hossain

Faculty Sponsor: Serkan Caliskan

Time: 11:10 – 11:30

Title: 2D MXene as a Surface-Enhanced Raman Scattering-based Sensing Platform for Forensic Trace Analysis.

Presenters: Mackenzie Songsart-Power, Brady Wilson, Chetan Dhital, Xiuli Dong, Fei Yan

Faculty Sponsor: Tej Limbu

Time: 11:30 – 11:50

Saturday, April 29th, 2024

College of Science and Engineering

9:00 a.m. – 10:00 a.m. Bayou 1333

Faculty Chair: Dr. Zokhrab Mustafaev

Title: On Helly's Theorem for Non-Overlapping Convex Bodies in the Plane.

Presenters: Elyssa Hernandez

Faculty Sponsor: Zokhrab Mustafaev

Time: 9:00 – 9:20

Title: Helly-Type Results for Convex Bodies in the Plane

Presenters: Jonathon Foley

Faculty Sponsor: Dr. Zokhrab Mustafaev

Time: 9:20 – 9:40

Title: Evaluation of Process Annotations from the Gene Ontology in Disease Clustering.

Presenters: Drew Brady

Faculty Sponsor: Hisham Al-Mubaid

Time: 9:40 – 10:00

Saturday, April 27, 2024

College of Human Sciences and Humanities

10:15 a.m. – 11:55 a.m. Bayou 1333

Faculty Chair: Dr. Pearl Young

Title: Breaking Habits: The Historiography of Secular Catholic Nuns and their Role in Social Movements.

Presenters: Bailey Brantley

Faculty Sponsor: Pearl Young

Time: 10:15 – 10:35

Title: Remembering Korea: The Question of Genocide and Birth of the Modern American Empire.

Presenters: Reese Powling

Faculty Sponsor: Pearl Young

Time: 10:35 – 10:55

Title: Spectacles for Men and for God.

Presenters: Robert Gaddie

Faculty Sponsor: Pearl Young

Time: 10:55 – 11:15

Title: Unraveling Augusta Jane Evans: Women, Gender, and Slavery in America.

Presenters: Shelby Rodwell

Faculty Sponsor: Pearl Young

Time: 11:15 – 11:35

Title: Psychophysiological Correlates of Morbid Curiosity.

Presenters: Esmeralda Martinez

Faculty Sponsor: Georgina Moreno

Time: 11:35 – 11:55

Saturday, April 27, 2024

College of Human Sciences and Humanities

10:00 a.m. – 12:00 p.m. Bayou 1135

Faculty Chair: Dr. Anna Klyueva

Title: The Comparison of Aerobic Exercise and Resistance Exercise in Older Adults with Knee Osteoarthritis.

Presenters: Natalie Clark and Preslee Bryson

Faculty Sponsor: Isabel Woelfel

Time: 10:00 – 10:20

Title: What is the foundation for community?

Presenters: Zachary Jernigan, Velisha Patel, Hanna Green, Tabbitha Ross, and Ajani Sanni

Faculty Sponsor: Anna Klyueva

Time: 10:20 – 10:40

Title: Dark Academia: The TikTok Subculture Leading the Gen-Z Classic Literature Renaissance.

Presenters: Nadia Jasso

Faculty Sponsor: Michael Clody

Time: 10:40 – 11:00

Title: Comparing Keyboarding Skills of Third-Grade Students: A Gender-Based Analysis in a Texas Elementary School.

Presenters: Cynthia Huang

Faculty Sponsor: Erica Smith

Time: 11:00 – 11:20

Title: UHCL Internship Program Participation - Panel Discussion Proposal.

Presenters: Margaret Solomon-Bird

Faculty Sponsor: Sarah Costello

Time: 11:20 – 11:40

Title: The Kenyan Way: A Study of Psychological Themes in Kenyan Running

Presenters: Livia Woolery

Faculty Sponsor: Erica Smith

Time: 11:40 – 12:00

Saturday, April 27, 2024

**College of Education / College of Human Sciences and
Humanities**

10:00 a.m. – 11:40 a.m. Bayou 1133

Faculty Chair: Dr. Rebecca Huss-Keeler

Title: Female Minorities Pursuing Doctorates: The ebbs and flows of it all

Presenters: Margaret Solomon-Bird

Faculty Sponsor: Grace Samuels

Time: 10:00 – 10:20

Title: A Case Study of Teacher and Administrator Perceptions of the Implementation of the Sheltered Instruction Observation Protocol (SIOP) Model and its Influence on Student Achievement and on levels of English Language Acquisition.

Presenters: Kelly Duff

Faculty Sponsor: Rebecca Huss-Keeler

Time: 10:20 – 10:40

Title: Culturally and linguistically diverse parents' perceptions of their involvement in decision-making during individualized education plan meeting.

Presenters: Suha Beydoun

pedro

Faculty Sponsor: Rebecca Huss-Keeler

Time: 10:40 – 11:00

Title: The Journey of Persistence: A Case Study of African American Men in Community College.

Presenters: Christopher Hollman

Faculty Sponsor: Lisa Jones

Time: 11:00 – 11:20

Title: American Baby.

Presenters: Osasere Edo-Ewansiha

Faculty Sponsor: Jennifer McCauley

Time: 11:20 – 11:40

Saturday, April 27, 2024

College of Science and Engineering

Poster Sessions

Poster Setup at 8:30 a.m. Bayou Building, Atrium II

Presentations from 9:00 a.m. – 12:00 p.m.

Title: Compact Generalized Water Quality Analyzer Utilizing Neural Networks.

Presenters: Dalton Connolly

Faculty Sponsor: Dr. Jiang Lu

Title: Campus Navigation and Information Kiosk System.

Presenters: Alexander Opekun, Andrew Steele, Ashley Chavez, Aislynn Chavez, Jared Blondeau, Rishon Jeegan, Hailey Thomas

Faculty Sponsor: Xiaokun Yang and Jeffery Lash

Title: Analysis on bird species of concern with a focus on the American Oystercatcher (*Haematopus palliatus*).

Presenters: Renee Deng

Faculty Sponsor: Dr. Cindy Howard

Title: Assessing micro and nano plastic pollutants in Matagorda Bay, Texas.

Presenters: Daniel Adrian

Faculty Sponsor: Dr. Ruaa Al Mezrakchi

Title: SEM-EDS Nanoplastics Investigation.

Presenters: Angel Guzman

Faculty Sponsor: Dr. Ruaa Al Mezrakchi

Title: Design and Manufacturing of Innovative End-effector for Disability and Robot Applications.

Presenters: Dawson Gonzalez

Faculty Sponsor: Dr. Ruaa Al Mezrakchi

Title: Wirelessly Controlled Robotic Hand.

Presenters: Frank Blanchard

Faculty Sponsor: Dr. Ruaa Al Mezrakchi

Title: Prevalence of Bacterial Pathogens in Seafood Harvested from Galveston Bay.

Presenters: Tetyana King, Aspen Earle, Isabella I. Rodriguez, Teresa De Jesus Davila

Faculty Sponsor: Dr. Michael LaMontagne

Title: Managing Complex Matrices: Accessible Microplastic Extraction from Soil via Green Density Manipulation.

Presenters: Stefan Tabacaru, Fabiola Gonzalez

Faculty Sponsor: Dr. Christine Miller, Jim Dobberstine

Title: Sediment Microbiome Analysis to Assess Effectiveness of Living Shoreline Management in Restoring Shoreline Habitats.

Presenters: Bailey L. Steward, Jose Najera, Todd A. Cameron

Faculty Sponsor: Dr. Yihfen Yen

Title: Fluorescence spectroscopy.

Presenters: Donaldo Perez

Faculty Sponsor: Dr. Daniel Zerong Wang

Title: Impact on Industrial and Ambient Air Pollution with Population Increase from 2005 to 2020 in Bexar County, Texas.

Presenters: Kholton Tidwell-Courtney

Faculty Sponsor: Dr. Chunlong Zhang

Title: Cloning of ZIP1 and ZIP3 from *Medicago truncatula* to examine Allelic Variation in Natural Populations.

Presenters: Keena Magana, Ivan Castillo, Abdallah Mouhamad

Faculty Sponsor: Dr. Brian Stephens

Title: Analysis of Hydrocarbon Degrading Bacteria in Galveston Bay.

Presenters: Pricilla Delatorre

Faculty Sponsor: Dr. Michael LaMontagne

Title: The effect of a serotonergic drug on opioid antagonist-precipitated morphine withdrawal syndrome and its aversiveness in rats.

Presenters: Ping-Hsun Tsai, Erica R. Morales, Savannah A.Nino, Isabella E.Deleon, Kessiya E. Philip, Gopika Saji, Ruby Gonzalez, Yvonne Reed, Emily Jones, Hasan Qamar

Faculty Sponsors: Dr. David H. Malin; Christopher P. Ward; Georgina L. Moreno

Title: Carbon Fiber Reinforced Polymers (CFRP) in Automotive Applications.

Presenters: George Janho

Faculty Sponsor: Dr. Youssef Hamidi

Title: Migration and Conservation of the Whooping Crane.

Presenters: Madison Prince, Jenah Leblanc

Faculty Sponsors: Dr. Cindy Howard

Title: Ubiquity is Success: The Great-Tailed Grackle.

Presenters: Beatriz Cespedes Rosales

Faculty Sponsors: Dr. Cindy Howard

Title: Polymer Matrix Composites for Electromagnetic Shielding: A Review.

Presenters: Sheikh Hussain

Faculty Sponsor: Dr. Youssef Hamidi

Title: Cloning Laminin 511.

Presenters: Emmanuel Kyei, Erich Bordelon

Faculty Sponsor: Dr. Scott Buckel

Title: Development of a Custom Mass Spectra Database to Improve Identification of Bacterial Isolates from Galveston Bay.

Presenters: Kevan Clarkston

Faculty Sponsor: Dr. Michael LaMontagne

Title: Self-Healing Composite Materials.

Presenters: Jeremy Maher

Faculty Sponsor: Dr. Youssef Hamidi

Title: The Golden-Cheeked Warbler.

Presenters: Madison Huie

Faculty Sponsors: Dr. Cindy Howard

Title: Energy Dispersive Spectroscopic (EDS) Characterization of Novel 2D Nanomaterials.

Presenters: Whitney Jones, Jittin Thomas, Mackenzie Songsart-Power, Amit Shringi, Fei Yan

Faculty Sponsor: Dr. Tej B. Limbu

Title: MALDI-TOF MS Custom Database of Bacterial in Seafood Harvested in Galveston Bay.

Presenters: Tetyana King, Aspen Earle, Isabella Rodriguez, Teresa De Jesus Davila

Faculty Sponsor: Dr. Michael LaMontagne

Title: Identification of amino acid sequence variation in ZIP1 and ZIP3 metal transporters isolated from natural populations of *Medicago truncatula*

Presenters: Abdallah Mouhamad, Ivan A. Castillo, Keena Magana, Kessiya E. Philip

Faculty Sponsor: Dr. Brian Stephens

Title: Prevalence of Bacterial Pathogens in Seafood Harvested from Galveston Bay.

Presenters: Aspen S. Earle, Isabella Rodriguez, Teresa De Jesus Davila, Tetyana King

Faculty Sponsor: Dr. Michael LaMontagne

Title: Main Spectra Profile (MSP) creation from Cow (*Bos taurus*) and Seabird scat using Matrix-Assisted Laser Desorption/Ionization Time of Flight Mass Spectrometry.

Presenters: Christopher Howard, Haley Stevens

Faculty Sponsor: Dr. Michael LaMontagne

Title: Cloning of ZIP1 and ZIP3 from *Medicago truncatula* to examine Allelic Variation in Natural Populations

Presenters: Ivan A. Castillo, Abdallah Mouhamad, Keena Magana, Kessiya Philip

Faculty Sponsor: Dr. Brian Stephens

Title: Theoretical Distribution of Laminin Sunbits.

Presenters: Shelby Miracle, Gautham Baddigam, Nathan Kwan, Davood Moridi, Jeremy Roberts, Afifa Vohra, Siri Ramnarine, Amna Ali

Faculty Sponsor: Dr. Scott Buckel

Title: Advancements in High-Temperature Composites: Materials, Technologies, and Applications.

Presenters: Christopher Garcia

Faculty Sponsor: Dr. Youssef Hamidi

Title: Theoretical Distribution of Laminin Proteins

Presenters: Gautham Baddigam

Faculty Sponsor: Dr. Scott Buckel

Title: Survey of Lead (Pb) in Drinking Water of University of Houston Public School System.

Presenters: Dharia T. Spriggs

Faculty Sponsor: Dr. Carl Zhang

Title: Historical Data on the Distribution of the Northern Bobwhite.

Presenters: Amanda Mackey, Brianca Williamson

Faculty Sponsor: Dr. Cindy Howard

Title: Benefits of reducing ozone using BenMAP-CE in major cities in Texas.

Presenters: Juan Luzardo

Faculty Sponsor: Dr. Dongmin Sun

Title: Graphene and its Implementation in Composite Materials.

Presenters: Hunter Van Wagner

Faculty Sponsor: Dr. Youssef Hamidi

Title: Biodegradable Composite Materials, an Approach to Replacing Plastics.

Presenters: Brock Helpenstill

Faculty Sponsor: Dr. Youssef Hamidi

Title: Comparing Ecological Indicator Bacteria in Watersheds.

Presenters: Alexis Serrano, Hillary Aggrey, Ashlyn Carter, Natalie Clark, Ashley Prince

Faculty Sponsor: Dr. Michael LaMontagne

Title: Microbial Communities Associated with Microplastics and Detritus in Galveston Bay.

Presenters: Drew Eisenbach, Joel Flores, Alicia Rios, Sasha Stephenson, Andrew Patterson, Allison Forrest

Faculty Sponsor: Dr. Michael LaMontagne

Title: External Morphology, Distribution, Dive Sequence, and Surface Behavior of the Amazon River Dolphin (*Inia Geoffrensis*) and Tucuxi (*Sotalia Fluviatilis*).

Presenters: Lauryn Fly

Faculty Sponsor: Dr. Cindy Howard

Title: Additive Manufacturing Influence on Mechanical Properties.

Presenters: Viet Nguyen, Baldemar Garcia

Faculty Sponsors: Dr. Ruaa Al Mezrakchi; Dr. Youssef Hamidi

Title: Ecology: Mottled Duck Population Distribution and Abundance.

Presenter: Julia M. Rasberry and Mia Jade Witherspoon

Faculty Sponsor: Cindy Howard

Title: Zinc Concentration in Fingernail Clippings A Potential Biomarker of Zinc Status.

Presenter: Nancy F. Arellano, Brittany Escobar

Faculty Sponsor: Dr. Leonard Giblin

Title: Flower Classification On TPU.

Presenter: Ashok Reddy Meesala, Sai Pavan Reddy Bushireddy, Manikumar Chintala

Faculty Sponsor: Dr. Unal "Zak" Sakoglu

Title: Microplastic's Relation to Tourist Traffic: Galveston Island Beaches.

Presenters: Melissa Benningfield

Faculty Sponsor: Dr. Stephen Gruber

Saturday, April 27, 2024

College of Human Sciences and Humanities

Poster Sessions

Poster Setup at 8:30 a.m. Bayou Building, Atrium II

Presentations from 9:00 a.m. – 12:00 p.m.

Title: “Once I felt I had a choice, I didn’t choose religion”: Analysis of Meaning Among Religious Dones.

Presenters: Cameron Rollwitz

Faculty Sponsor: Dr. Nicholas Shaman

Title: Scrolling into Trouble: An In-Depth Analysis of Social Media's Pitfalls.

Presenters: Brandi Cates

Faculty Sponsor: Dr. John McMullen

Title: Parental Support & Children with Eating Disorders.

Presenters: Xena Wooley, Cindy Perez, Miguel Ramirez

Faculty Sponsor: Dr. Sofia Georgiadou

Title: Temple Mount Micrography Lithograph.

Presenters: Melanie Nonmacher

Faculty Sponsors: Dr. Beth Merfish, Dr. Mark Goldberg

Title: From Spice Holder to Hanukiyah: Porcelain Chinoiserie.

Presenters: Tria M. Van Horn

Faculty Sponsor: Dr. Beth Merfish

Title: A Behavioral Economic Analysis of the Morning-After Pill.

Presenters: Kelcy Coleman, Jin Ho Yoon, Irene Pericot-Valverde

Faculty Sponsor: Dr. Jennifer Fritz

Title: Iranian Ketubah, By Yeshua Zeira Moshe ben Harav Aharon, Isfahan, Iran, 1980.

Presenters: Rahil Asgari

Faculty Sponsors: Dr. Beth Merfish, Dr. Mark Goldberg

Title: The Relationship between Religious Affiliation and Substance Use Perception.

Presenters: Paige Simpson, Kylie Forgy

Faculty Sponsor: Dr. Christine Walthers

Title: Frequency of Social Media Usage and College Student’s Academic Engagement: A Non-Significant Negative Correlation.

Presenters: Thuy Tran

Faculty Sponsor: Dr. Robert Bartsch

Title: The Moderating Effect of Gender Role Orientation on the Relationship Between Sex/Gender and Impulsivity.

Presenters: Emine Drews

Faculty Sponsor: Dr. Sarah Griffin

Title: Effects of Dynamic Bimodal Congruency on Affect and Memory.

Presenters: Kylie Forgy

Faculty Sponsor: Dr. Georgina Moreno

Title: Analysis of Moses and the Pharaoh.

Presenters: Maya Bouchebl

Faculty Sponsors: Dr. Beth Merfish and Dr. Mark Goldberg

Title: Unmasking the Stigma Behind Autism in Females.

Presenters: Madeline Powers

Faculty Sponsor: Dr. Emily Horton

Title: Psychophysiological Correlates of Morbid Curiosity.

Presenters: Esmeralda Martinez

Faculty Sponsor: Dr. Georgina Moreno

Title: Intensive Outpatient Behavior Disorders Clinic.

Presenters: Alexis Cano, Madison Hamby

Faculty Sponsor: Dr. Jennifer Fritz

Title: Technology Dependence on Emotional Regulation and Ostracism.

Presenters: Paige Simpson

Faculty Sponsor: Dr. Georgina Moreno

Title: The Connect the Dots Program.

Presenters: Kerri Kroen, Jennifer Carrera, Jennifer Fritz, Sarah Lechago

Faculty Sponsors: Dr. Jennifer Fritz and Dr. Sarah Lechago

Title: Ongoing Global Conflict and the Applicability of Different Seminal Counseling Theories
and the Effectiveness of Group Counseling.

Presenters: Alizeh Khan

Faculty Sponsor: Dr. Emily Horton

Saturday, April 27, 2024
College of Education
Poster Sessions

Poster Setup at 8:30 a.m. Bayou Building, Atrium II

Presentations from 9:00 a.m. – 12:00 p.m.

Title: Conceptualization for Treatment of Parental Alienation for Counselors.

Presenters: Angel Acosta

Faculty Sponsor: Dr. Randy J Davis

Title: Exploring Preparation Practices for the Social Studies EC-6 Core Subjects Exam Among UHCL Elementary Teacher Candidates.

Presenters: Taylor Jewel, Karen Perez

Faculty Sponsor: Dr. Maria Curtis

Saturday, April 27, 2024
College of Business
Poster Sessions

Poster Setup at 8:30 a.m. Bayou Building, Atrium II

Presentations from 9:00 a.m. – 12:00 p.m.

Title: The Dilemmas of Micromanagement in the Workplace.

Presenters: Dhanashri Wayakole

Faculty Sponsor: Dr. Silvana Chambers

Title: Workplace Accommodations of Employees with Long COVID.

Presenters: Stephanie Diehl

Faculty Sponsor: Dr. Silvana Chambers

Saturday, April 27, 2024

Non-UHCL Higher Education Institutions

Poster Sessions

Poster Setup at 8:30 a.m. Bayou Building, Atrium II

Presentations from 9:00 a.m. – 12:00 a.m.

Title: A Behavioral Economic Analysis of the Morning-After Pill.

Presenters: Kelcy Coleman, Jin Ho Yoon, Irene Pericot-Valverde. **Faculty Sponsor:** Dr. Jennifer Fritz

UT Health Houston

Title: Managing Complex Matrices: Accessible Microplastic Extraction from Soil via Green Density Manipulation.

Presenters: Stefan Tabacaru, Fabiola Gonzalez **Faculty Sponsor:** Dr. Christine Miller, Jim Dobberstine

Lee College

Title: The Missing Muse: The Degradation of Arts Education in K-12 Schools.

Presenters: Alma Ramirez, Lucas Halbadier, Kiersten Dicks **Faculty Sponsor:** Dr. Judith Maima Skeele

San Jacinto College

Title: "Impact of Recess on Whole-Child Development in K-12 Schools: A Comprehensive Investigation!"

Presenters: Genesis Young, Lynn Dobbins **Faculty Sponsor:** Dr. Judith Maima Skeele

San Jacinto College

Title: Overloaded and Overwhelmed! The Impact of Excessive Homework on K-12 students.

Presenters: Lucero Trevino, Alejandra Sosa, Lillyann Trevino **Faculty Sponsor:** Dr. Judith Maima Skeele

San Jacinto College

Saturday, April 27, 2024

High Schools
Poster Sessions

Poster Setup at 8:30 a.m. Bayou Building, Atrium II

Presentations from 9:00 a.m. – 12:00 a.m.

Title: Molybdenum Doped BiVO₄ Thin Films in a Gas Sensing Application.

Presenters: Vasundhra Arulazi

Faculty Sponsor: Dr. Anthony Lau

Lawrence E. Elkins High School

Title: Shape Memory Polymers: Effects of Temperature and Exposure Time on SMP for Biomedical Applications and Medical Devices.

Presenters: Noor Al-Ramthan

Faculty Sponsor: Robin Mayeaux

Clear Lake High School

Title: A Novel Nanocarbon Infused Gum Arabic Sensing Skin Optimized for On-Skin Electronics and Temporary E-Tattoos.

Presenters: Anvesha Subramanian, Sai Spoorthi Maram, Jiya Joshi **Faculty Sponsor:** Dr. Karoline Mueller

Ridge Point High School

Title: Effect of pH on Lactobacillus Fermentum's Viability and Nitric Oxide Production.

Presenters: Anastasia Gonzalez

Faculty Sponsor: Lindsay Cardella

Clear Creek High School

Title: Sephora Kids V.S the World.

Presenters: Bailey Mayo

Faculty Sponsor: Erica Smith

Clear Lake High School

Title: Feministic Themes in Disney Channel: An Analysis of Live Action vs. Animation.

Presenters: Annie Nguyen

Faculty Sponsor: Erica Smith

Clear Lake High School

Title: This One or That One: Content Analysis on the Extrinsic Factors of Whey Protein Powders.

Presenters: Priya Pillai

Faculty Sponsor: Erica Smith

Clear Lake High School
