

FALL STUDENT RESEARCH SYMPOSIUM

**December 4, 2023
12:30 – 5:00 p.m.
Celebrate & Support**

Scholars participate in discussions. They listen to, learn from, and extend the concepts and ideas in their fields. Their knowledge begins with questions.



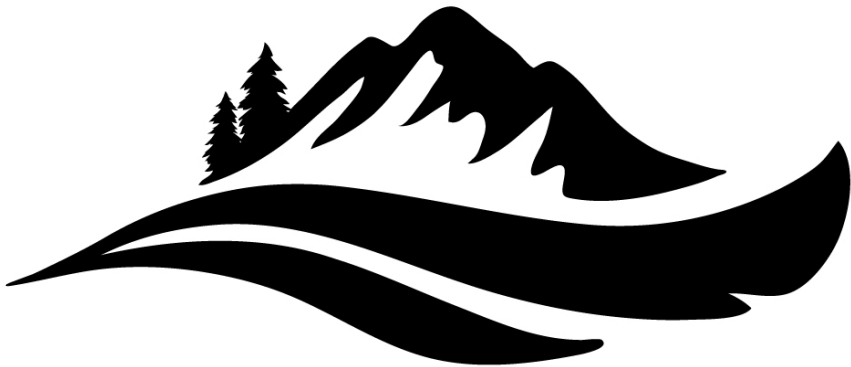
Feather River College

WELCOME!



Welcome to the Fall 2023 Student Research Symposium. Today marks an important occasion in the development of FRC students, culminating with a showcase of their academic coursework and public presentation skills. Proficiency in presenting clear, concise information is one of the most vital skills that a person can carry with them their entire lives. Critical thinking is important: even more valuable is the ability to communicate that critical thinking to others. FRC is proud of the impressive work at today's Student Research Symposium. We are excited for your attendance and we are honored that you have chosen to support FRC students at this event.

Dr. Kevin Trutna
Superintendent/President



A Note on Behalf of Instruction

Greetings! Scholars gather to share their research, test their arguments, and learn from their peers at a symposium. In this spirit, each person's understanding of a subject is enhanced, and one's research takes new directions. We learn and grow through discussion and experience, and by our imaginations and efforts. The practice you get here establishes skills necessary for success on any campus or in any professional environment. You are undertaking valuable preparation towards your majors and careers. These partnerships elevate the collective intellectual character of our school. It is an exercise in critical thinking: listen; ask questions; examine alternatives. Critical thought inspires us to *know what matters*. I'm excited to carry on this exciting tradition with you!



Dr. William V. Lombardi
Professor of English

A Note on Behalf of Student Equity and Achievement



Student Services provides support to First Year students through a variety of programs. Summer Bridge, New Student Orientation and Week of Welcome are on-boarding programs that help connect students to their campus, classmates and community. The Student Success and FYE workshops give students the tools they need to be successful both in and out of the classroom. Students have an opportunity to explore occupations at the College & Career Fair in person and at Pathway U online. Additionally, students are encouraged to meet with their advisors regularly to develop and update Education Plans based on their academic and career goals. All of these supports work together in collaboration with the English Department to help students transition to college and meet the new academic and personal expectations.

Michelle Petroelje
Director of Student Equity and Achievement

Schedule of Events

12:30 – 12:50

WELCOME

GYMNASIUM

Opening Remarks

Dr. William Lombardi, English

Keynote Address

Carlie McCarthy, Vice-President Student Services/CSSO

1:00 – 1:50

POSTER EXPOSITION

LIBRARY

Moderators: Swarm and Lombardo

Chemistry, Kurt Smart

Braelyn Birkel, Lexi Baumgartner, Mallory Foster: **Acid in Soda**; Tessa Sloan, Makayla Shafer: **So Soluable!**; Caden Hendrickson, Cameron Erickson: **Copper Flame Test**; Cruz Anderson: **Starch Poles**; Megan Hull, Liana Nye: **Precipitation of Lead Iodide**; Aaron Nobu: **Strontium Flame Test**; Tom Rylands, Julia Brown: **Iron Levels in Our Watershed**; Amanda Cortez: **Cobalt Equilibria**; Kieran Heaney: **Precipitation of Lead Iodide**; Brennan Porter: **Explosive Compound Propulsion**; Cynthia Smith, Gabriella Gregory: **Flame Alchemy Array**

Biology, Anna Thompson

Alex Doust, Eva Jarman, Scarlet Taskey, Ashley Vernon: **Horse Color Genetics**; Cruz Anderson, Cassie Brown, Jill Luton, Cynthia Smith: **Horse Coat Color**; Dennis Eck, Kieran Heaney, Gus McNally, Kathryn Wightman: **Feline Coat Colors**; Justin Robinson, Makayla Shafer, Tessa Sloan, Leia Wearin: **Coat Colors of Quincy Cats**

Introduction to Fisheries, Adam Fuller

Sophia Wrenn, Kate Shepard, Dan Levitt, Jacob Disney, Trent Cash

Other Posters

Audrey Hay: **Horse Industry**
Iynell Thomas: **Athletes' Mental Health**
Evi de Bois: **Let's Get (Astro)Physical**
MaKayla Figuereo: **Social Influence**
D'Angelo Ackley: **Catapult Vests**

2-2:50

SESSION I

Upper Campus

Panel	Theme	Room #	Moderator
Panel 1	Sports: Pros and Cons	MAIN 201	Bonnell

Danny Marino	Baseball vs Softball
Gabriel Forest	Natural Grass vs Turf
Jonas Willford	A.I. and Cheating
Julien Freshette	Sports Technology

Panel 2	Art Appreciation	MAIN 203	Olivera
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Islamic Architecture

Tyler Hernandez, Jovari Beasley, Loni Tafea, Jordon Gray

International/Modern Architecture

Ethan Duran, Elijah Stafford, Epoki Tafea, Royce Vaught

Gothic Architecture

Alix Lopez, Cougar Deen, Austin Portner, Gary Schnepf, Isileli afu Masi

Panel 3	Ag Business	MAIN 207	Leonhardt
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Gracie Fee Soaring Cattle Prices

Entrepreneurial Projects:

Madilyn Andersen

Chloe Brogden

Max Carlisle

Panel 4	Recreation and Leisure	MAIN 208	S. Flett
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Max Shmelev	National Park Service
Izzy Levy	NRCS
Sabrina Meyerson	Bureau of Land Management
Hailey Hicks	US Fish and Wildlife

Panel	Theme	Room #	Moderator
Panel 5	Spanish Creek Watershed Protection and Restoration	Lower MAIN 400	Lampe
	Michael Ferguson and James Ellermeyer Justine Kloppenborg, Sophia Wrenn, and Trinity Manning Ryan Livingstone and Johnnie Bruce		
Panel 6	Equine Care	Lower MAIN 403	K. Smart
	Rachel Mariant Katrina Russell Bailey Grasty Katy Sannar	Equine Boots Horseshoeing Big Licks! Lasix: The Hard Drug of Horses	
Panel 7	Video Presentations!	STSV 605	Warren
	Maya Cann Ledua Koi Kristine Bakhad Paige Coley	Poaching College Athletes' Mental Health College Athletes' Mental Health Peer Pressure	
Panel 8	Fire and Water	STSV 627	Lombardi
	Rohan Linford Steven Cherry Anela Caudle Zane Denton	Dam, Removal, Environmental Freshwater Fish Water, Agriculture, California Forest Fire	
Panel 9	Equine Issues	STUSV 630	Heaney
	Ava Solberg Annette Kahlberg Jordan Robbins Chance Pimentel	Equine Nutrition Equine Behavior Wild Horses Ranching Public Lands	

Panel	Theme	Room #	Moderator
Panel 10	Futball!	LRC 850	Jarrett

Phelix Fountain	Social Media and Athletes
Alexis Gutierrez Soria	FIFA
Peter Hamill	Young Footballers' Mental Health
Callum Harvey	Making an Elite Athlete

Panel 11	Health and Wellness	LRC 871	Oertle
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Madison Hood	Surgical Site Infections
Johnny Lewis	Collegiate Athletes' Mental Health
Elias Justice	Athletes Need Help Too
Jennifer Meyers	Medical Access in Rural Populations

2:50 – 3:00 **COMFORT BREAK** **UPPER CAMPUS**
Refreshments will be served.

3:00 – 3:50	SESSION II	UPPER CAMPUS
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Panel	Theme	Room #	Moderator
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Panel 12	The Science of Health	MAIN 201	Bonnell
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Isabel Levy	Nutrition and Fasting
Lexus Johnston	Psychedelics: Uses and Stereotypes
Donna Shaffer	Covid Vaccines
Isabel Whitten	Equine Breeding and Imprinting

Panel 13	Art Appreciation	MAIN 203	Olivera
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Greek/Classical Architecture
Emily Walters, Juliana Cudia, Leilani Quiring, Josh Carr, TJ Steed

Sustainable/Green Architecture
Courtney Moore, Jessica Dias, Callum McGuinness, Trinity Manning, Kaley Watters

Art Deco/Art Nouveau
Nathan Scargill, Tyler Stolfich, Logan Reed, Jack Cook, Elijah William

Panel	Theme	Room #	Moderator
Panel 14	Ag Business	MAIN 207	Leonhardt

Jaycee Ford Supplements for Horses
Entrepreneurial Projects:
 Samantha Conder
 Macey Fowler
 Morgan James

Panel 15	Recreation and Leisure	MAIN 208	S. Flett
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Rachael Hussar National Wildlife Refuge System
 Will Kruger Army Corps of Engineers
 Joey Rawls Bureau of Indian Affairs
 Juan Perez US Department of Defense

Panel 16	Environmental Issues	Lower MAIN 400	Tracy
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Miro Nahdi Plastic Pollution
 Zoe Smith Mule Deer Populations
 Nikki Eagle Climate Change
 Elana MacFarlane Guinea Pigs!

Panel 17	Issues in Athletics	Lower MAIN 403	K. Smart
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Quinten Terrell Steroids
 Mikey Gordon-Jefferson Doping in Sports
 Sepuloni Tafea Paying College Athletes
 Jordan Summers. CTEs, Concussions, and TBIs

Panel 18	Family Matters	STUSVCS 605	Warren
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Zane Pederson Sports and Child Development
 Khalilah Corley Families and the Pandemic
 Jordan Gray Minimum Wage
 Mattea Cortez Substance Abuse and Domestic Violence

Panel	Theme	Room #	Moderator
Panel 19	Issues in Ag	STUSVCS 627	Lombardi

Leia Wearin	Welfare and Wellbeing of Pigs
Courtney Jones	Animal Rights vs Animal Welfare
Tia Henrikson	Organic vs Conventional Livestock Farming
Tanner Kerr	GMOs: Good, Bad, Indifferent

Panel 20	Global Issues	STUSVCS 630	Heaney
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Jillian Kissel	Sterilization and Global Overpopulation
Brandon James	UN Security and Peacekeeping
Julia McGarva	Human Population Crisis
Kyle Valdez	Technology and Education

Panel 21	Social Issues	LRC 850	Jarrett
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Mia Gridley	The Fighting Chance: Immigration Rights
Luke Danzig	Reactionary Politics of Immigration Policy
Ryan Tappouras	Knife Crime
Epoki Tafea	Police Brutality
Monjaro Senegal	Athletes' Mental Health

Panel 22	Health and Wellness	LRC 871	Oertle
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Michelle King	Injection Safety
Armando Salazar	Mental Health in College Athletes
Emma Canalia	Mental Health in College Athletes
Valencia Kim	Distractions/Interruptions

3:50 – 4:00

COMFORT BREAK
Refreshments will be served.

UPPER CAMPUS

4:00 – 4:50

SESSION III

UPPER CAMPUS

Panel	Theme	Room #	Moderator
Panel 23	Arts and Media	MAIN 203	Olivera

Mason Thorman	Pay in the Performing Arts
Trent Cash	Media Piracy
Evan Thorman	Gothic Horror and Vampires
Michael Kearns III	Smartphone Addiction

Panel 24	Aq Business	MAIN 207	Leonhardt
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Entrepreneurial Projects:

Webb Johnson
Joseph Lavacot
Anna Roth
Casey Talamantes

Panel 25	Recreation and Leisure	Main 208	S. Flett
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Leo Kusener	National Wilderness Preservation System
Rohan Linford	National Wild and Scenic Rivers
Inaki Aubeso	National Trails System
Charles	Tennessee Valley Authority

Panel 26	Ecological Issues	Lower MAIN 400	Tracy
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Carl Colavecchio	Oil Drilling in Alaska
Grant McGuire	Sharks and the Ecosystem
Toby Gertson	Invasive Species
Katrina Russell	Wild Horse Overpopulation

Panel 27	Recreation Leadership	Lower MAIN 403	Lampe
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What Kind of Leader Am I?: Leadership Portfolios

Max Shmelev, Rissa Griffith, Maxim Grippaldi,
Will Ross, Anthony Stewart-Rojas

Panel	Theme	Room #	Moderator
Panel 28	Society and Violence	STUSVCS 605	Warren
	Maisie Jones Destiny Malave Carlos Gutierrez Soria Brooklyn Baray	Gun Laws and Mass Shootings Gun Laws School Shootings in America Psychology of Sociopaths	
Panel 29	Mental Health	STUSVCS 627	Lombardi
	Giselle Hamilton Madilyn Reed Ethan Miller Kenneth Rather	Music and Mental Health Mental Health Men's Mental Health Social Media and Mental Health	
Panel 30	Body, Mind, Sports	STUSVCS 630	Heaney
	Miro Nahdi Sierra Dixon Ivo Bendowski Emilee Miller	Growing Up Transgender Women in Bodybuilding Cognitive and Mental Training in Soccer Mental and Physical Training of Athletes	
Panel 31	Sports Injuries	LRC 850	Jarrett
	Drew Perigo Toby Parry Aaron Blake Christian Obos Callum McGuinness	Baseball Injuries Sports Injuries Nutrition and Recovery Injury Recovery College Athletes' Mental Health	
Panel 32	Health Practices	LRC 871	Oertle
	Omar Yearwood LaTasha Lindsey Averi Puccinelli Hayden Newman	Mental Health in Athletes Hand Hygiene Athletes' Mental Health Equine Artificial Insemination	

THANK YOU

TO ALL STUDENTS WHO HAVE PARTICIPATED IN THIS EVENT: The faculty and staff of Feather River College appreciate your smart work and effort.

TO ALL FACULTY AND STAFF WHO HAVE MADE THIS EVENT POSSIBLE: Thank you for planning, preparing, and facilitating all aspects of the Symposium.

A special thank you to those volunteering as panel moderators.

TO THE SYMPOSIUM COORDINATING COMMITTEE: MICHELLE PETROELJE, DIRECTOR OF STUDENT EQUITY AND ACHIEVEMENT; RICK LEONHARDT, BUSINESS PROFESSOR; DR. WILL LOMBARDI, PROFESSOR OF ENGLISH

TO TERREA VANCLEVE: For her skilled and timely efforts in the Print Shop.

TO KRYSTAL DRYBREAD: FOR HER WORK ON THE PROGRAM

TO CHEF SEAN CONRY AND HIS STAFF: FOR PROVIDING ALL FOOD AND REFRESHMENTS

MORE THANKS TO:

Dr. Kevin Trutna, Superintendent/President

Dr. Derek Lerch, Vice President of Instruction/CIO

Dr. Katie Desmond, Interim Assistant Dean of Instruction

Dr. William V. Lombardi, Liberal Arts and Sciences Division Chair

J. P. Tanner, Career & Technical Education Division Chair

Carlie McCarthy, Vice President of Student Services/CSSO

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ENGLISH DEPARTMENT

STUDENT SERVICES

FIRST YEAR EXPERIENCE

WRITING ACROSS THE CURRICULUM

