

Learn Through Discovery



2020 | 2ND ANNUAL EVENT

FYE SHOWCASE



December 1, 2020

11:00 A.M. - 1:15 P.M.

11:00 - 11:50

FYE Challenge

11:50 - 12:50

FYE PolyX Projects Showcase

12:50 - 1:15

Announcement of Winners for the Essay Contest, FYE Challenge, and Scavenger Hunt

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EVERARDO BARRAZA

Program and Academic Coordinator
Office of Undergraduate Research



SARAH MEYER

Professor of Visual Communication Design
College of Environmental Design



MARMAR TAVASOL

Projects Hatchery Coordinator
Learn Through Discovery Initiative



LTD FYE Challenge participants will present their innovative solutions based on this year's common read book, "Occasional Magic: True Stories About Defying the Impossible."

LTD FYE CHALLENGE PROJECTS



Team 1

Ladies Who Protest

Teammates: Alyssa-Kayla Marquez, Tiana Perez

FYE Club: #GrrrISquad **Advisor:** Maria Cerce

Team 2

The Right to Fair Arms

Teammates: Brooke Handschin, Madison Skipp,
Alex Cardenas, Andrew Marez, Eric Andrew

FYE Class: CPU 2990H

Advisor: Dr. Claudia Garcia-Des Lauriers and Won Choi



Team 3

WLWC

Teammates: Jenna Surdzial, Jason Diaz, Tori Garcia,
Jose Pavon, Lindsay Sung

FYE Class: CPU 2990H

Advisor: Dr. Claudia Garcia-Des Lauriers and Won Choi





FYE POLYX PROJECTS

Session

01

Food Waste

by Jennefer Hernandez, Auriel Quiroz, and Victoria Fletcher

Faculty Mentor: Nina Abramzon

Analysis & possible improvements to modify integration in the California Electrical Industry

by London Wright, Angel Silva, and Ka Hei Poon

Faculty Mentor: Nina Abramzon

Water in a Time of Pandemic

by Nori Sirikittikul, Daniel Hong, William Salazar, and Jesus Castillo

Faculty Mentor: Nina Abramzon

Affordable and Sustainable Energy

by Damian Hernandez, Ashley De Los Rios, Fayez Musharbash, and Sidney Nguyen

Faculty Mentor: Nina Abramzon

Session

02

Fundraising for Beef Cattle Unit

by Britney Pham, Natalie Mendizabel, Courtney Kaha'I, and Valerie Castellon

Faculty Mentor: Amber Freeland

Fundraising for the CPP Beef Cattle Unit

by Hope Spring, Elisa Guevara, Iona Koskinen, Dinah Guzman, Austin Dong, Alexia Soria, Brandon Moreno, Rikunosuke Suzuki, and Sarah Weimer

Faculty Mentor: Amber Freeland

Beefing Up Our Numbers

by Monserrath Solis, Ivanna Marroquin, Elizabeth Casas, and Nicole Fernandez

Faculty Mentor: Amber Freeland

Fundraising for the Beef Unit at Cal Poly

by Stephanie Hernandez, Charisse Ginta, Hannah Dornoff, and Cameren Sorrentino

Faculty Mentor: Amber Freeland

How climate change has made an impact on agriculture

by Rafael Ramirez, Sarah Aparicio, Mierlia Phay, and Jiaying Tan

Faculty Mentor: James Weeks

Session

03

Poly X Beef Cattle Unit Community Project

by Crystal Garcia, Hailey Millon, Isabella Andrade, Dhanisha Patel, Ayleen Lopez, Margot Garcia, Madelyn Kushida, Sishi Liang, and Christina Figueroa

Faculty Mentor: Amber Freeland and Haley Rubia

Fundraising for the Beef Cattle Unit

by Brenden Sakae, Charlotte Abbott, Rebekah Marmolejo, and Nina Hietala

Faculty Mentor: Amber Freeland

Fundraising for the Beef Cattle Unit

by Alissa Thorpe, Vivian Suarez, and Swaraj Joshi

Faculty Mentor: Amber Freeland

Affordable and Sustainable Energy

by Cassandra Lopez, Maria Salgado, Luz Castellanos, Jenny Galeno, Kimberly Borrego, Neil Li, Belen Sanchez, Esperanza Lopez, and Tori Garcia

Faculty Mentor: Amber Freeland

Session

04

Fundraising for the Beef Cattle Unit at CPP

by Chloe Grant, Vanessa Von Boeckmann, Chloe Carrasco, Jasmine Sanchez, Diego Toribio, Crystal Cabrera, Stella Mejia, Denise Fuentes, and Mackenzie Sauer

Faculty Mentor: Amber Freeland

Fundraising for the Beef Unit at Cal Poly Pomona

by Andrea Mendez, Cassandra Solano, Nicole Sakasegawa, and Hermelinda Sendin

Faculty Mentor: Amber Freeland

Fundraising for Cattle Unit

by Phoebe Amaro, Savanna Sequeira, Brenda Rodriguez, and Aliyah Comeaux

Faculty Mentor: Amber Freeland

The Importance of Beef Cattle Improvement

by Cassandra Lopez Cueva, Madeline Wratten, Hailey Chui, Rebert De Real, Sidney De La O, Stephanie Rios, Tyler Jackson, Megan Gillett, Samantha Melecio, and Alexyss Martinez

Faculty Mentor: Amber Freeland

FYE Challenge

by Angeles Martinez, Lauren Lee, Lauren Segovia, and Esmeralda Briseno

Faculty Mentor: Amber Freeland



Session

05

Ketogenic Diet

by Francisco Iniguez, Annie Dang, Michelle Oliva, Noelle Segura, Angel Lopez, and Julissa Acosta

Faculty Mentor: Aleida Gordon

Effects of food insecurity on non-adult individuals

by Juan Hernandez

Faculty Mentor: Aleida Gordon

Effectiveness of the Ketogenic Diet on Human Health

by Annie Dang, Michelle Oliva, Noelle Segura, Angel Lopez, Francisco Iniguez, and Julissa Acosta

Faculty Mentor: Aleida Gordon

Ketogenic Diets

by Noelle Segura, Annie Dang, Michelle Oliva, Angel Lopez, Francisco Iniguez, and Julissa Acosta

Faculty Mentor: Aleida Gordon

The Differentiating Diets of Sports

by Jocelyn Meraz, Damaris Carmona-Raya, Jesse Hernandez, Anahi G. Alcaraz Perez, and Breanna M. Murillo

Faculty Mentor: Aleida Gordon

Session

06

The Prevention of Childhood Obesity

by Amiko Villegas, Nathan Correa, Zachary Lunceford, and Reylyna Cruz

Faculty Mentor: Aleida Gordon

Plant-Based Eating

by Akin Fayehun and Ashley Jackson

Faculty Mentor: Aleida Gordon

Food Insecurity in Los Angeles

by Yvonne Leng, Bryan Vargas, Randy Abundis, and Leny To

Faculty Mentor: Aleida Gordon

Food Insecurity

by Nicole Embree

Faculty Mentor: Aleida Gordon

Compost or Not to Compost

by Imari Fernandez, Mayra Juarez, Jessica Cabrera-Bartolo, and Suzy Primavera

Faculty Mentor: Joanne Sohn and Melissa McCormick

Session

07

Environmental Impacts of CAFOs on Surrounding Communities and Systems

by Jillian Hernandez, Nicole Massau, Celestte Diaz, Primitivo Martinez, and Hannah Esqueda

Faculty Mentor: Holly Greene

Animal Products vs. Beyond Burger

by Rebekah Alcala, Sophia Andrews, April Herrera, Marilyn Gutierrez, and Johanna Guevara

Faculty Mentor: Holly Greene

From Sheep to Cattle, Large and Small, Ages of Clones Affect Them All

by Sidney Garrison, Victoria Payne, Amelia Simon, Tatiana Lopez, and Marilu Soto

Faculty Mentor: Holly Greene

Welfare Concerns for Animal Housing

by Levon Arvanitopoulos, Ashlyn Lewis, Sabrina Lopez, Daron Yessayan, and Nicole Phannis

Faculty Mentor: Holly Greene

Natural Pet Food, Is It Better?

by Irene Elias, Sara Kapitan, Josue Ramirez, Antonio Viramontes, & Carmen Zheng

Faculty Mentor: Holly Greene

Session

08

PBL Technology devices for pets

by Samantha Campos, Nicolette Olvera, Sandra Seely, Anh Nguyen, Tyler Bui, and Ivy Menjivar

Faculty Mentor: Holly Greene

Increasing the awareness of pet owner on roundworm (Toxocara)

by Nhan Nguyen, Teresa De La Paz, Elisa Murillo, Daniela Anguiano, and Gwen Hunter

Faculty Mentor: Holly Greene

Is animal testing actually necessary in human drug research?

by Luis Martinez, Kristi Perales, Melissa Argueta, Alina Baltazar, and Bella Segovia

Faculty Mentor: Holly Greene

Is Natural Pet Food Better?

by Sofia Loaiza, Jarelle Castellon, Saachi Verma, Alma Alvarez, & Yimi Lopez

Faculty Mentor: Holly Greene

Antibiotic Use in Beef Cattle

by Alyssa Janini, Vionda Valencia, Katelyn Mitchell, & Jennifer Cruz

Faculty Mentor: Holly Greene



Session

09

Free Range versus Pasture Management in our Food Source

by Daphne Navarro, Jackeline Alvarez, Cristina Perez, Angelica Padilla, and Natalia Rosales

Faculty Mentor: Holly Greene

Animal Used in Research for Human Health Benefits

by Kiara Parial, Natalie Grigoryan, Stacy Medina, Amaya Mooyman, and Daniela Brown

Faculty Mentor: Holly Greene

Complementary and Alternative Medicines/Therapies for Pets: CBD

by Tam Chung, Nicole Proano, Alyssa Crespín, Jazlyn Martínez, and Moonhong Kim

Faculty Mentor: Holly Greene

Shock Collar Technology on Animals

by Avalon Anderson, Marisa Bernal, Jessica Alvarez, Zhizel Garcia, and Judy Lee

Faculty Mentor: Holly Greene

The Cruelty and Neglect of Man's Best Friend due to Overbreeding

by Cole Coffman, Michelle Shenouda, Paola Alcantar, Norma Romero, and Alexis Chernin

Faculty Mentor: Holly Greene

Session

10

COVID-19 Effects on the Pet Industry

by Saira Garcia-Eseberre, Shawn Michels, Sydney Hernandez, Mario Medrano-Mejia, and Mia Herrera

Faculty Mentor: Holly Greene

Welfare Concerns for Animal Housing

by Desiree Sanchez

Faculty Mentor: Holly Greene

COVID-19 Effects on Pet Industry

by Cynthia Rosenblatt, Yahaira Garcia, Samantha Ramirez, Sabrina Ling, Lorena Hinojosa, and Jessica Aguilar

Faculty Mentor: Holly Greene

The Meat Placebo

by Luna Lopez, Khloe Galvez, Lillian Godinez, Bryanna Gutierrez, and Alejandra Orozco-Banderas

Faculty Mentor: Holly Greene

CPP Community Garden to help those financially affected by COVID-19

by Vanessa Cardenas, Grace MacDonald, Katherine Peel, Sky Rodriguez, and Maya Valenzuela

Faculty Mentor: Melissa McCormick and Joanne Sohn

Session

11

Cloning and it's ethics

by Aurora Brazelton, Alyssa Ludwig, Sara McClaine, Sabrina Morales, and Hansol Cho

Faculty Mentor: Holly Greene

Examination of Pasture Management versus Free Range in Poultry Operations

by Logan Brace, Kara Hiroshige, Parker Spikes, Madeline Jurman, and Jacklyn Quache

Faculty Mentor: Holly Greene

Environmental Impacts of CAFOs on Surrounding Systems and Communities

by Jillian Hernandez, Celeste Diaz, Hannah Esqueda, Primitivo Martinez, and Nicole Massau

Faculty Mentor: Holly Greene

Complementary and Alternative Therapies/Medicine for Pets

by Audrey Law, Emily Munoz, Mackenzie Nobbs, Lizbeth Cruz, and Samantha Alaniz

Faculty Mentor: Holly Greene

Technology Used in Livestock Production: Pros & Cons of GMO Feed

by Julia Portales, Cameron Senegal, Eduardo Galvez, Leslie Vega, and Yana Peel

Faculty Mentor: Holly Greene

Session

12

Event Industry

by Melissa Perez, Katherine Beatty, Anna Perkins, and Emily Irwin

Faculty Mentor: Ann Lara

The Lodging Industry

by Robert Fayette

Faculty Mentor: Ann Lara

Pineapple Club's Restaurant Industry Slideshow

by Ruth Kent, Ryan Monahan, and Brigette Cruz

Faculty Mentor: Ann Lara

How the Increased Use of Disposable Masks during the COVID Pandemic Has Affected Wildlife

by Marisa Rangel, Crystal Ramirez, Carlos Lazaro, and Jaqueline Borrego-Villela

Faculty Mentor: Melissa McCormick and Joanne Sohn

Cat-fe

by Samantha Gomez, Kathleen Gross, and Kimberley Vargas

Faculty Mentor: Joanne Sohn and Melissa McCormick



Session

13

How Plastic Bags Have A Negative Impact on The So. California Green Sea Turtle

by Natalie Hutchings, Rebecca Bugarin, Ann Tran, Brenda Vargas, and Lizbeth Gonzalez

Faculty Mentor: Melissa McCormick and Joanne Sohn

Stand up for Senior dogs

by Samantha Reyna, Gabrielle Sorea, and Lizbeth Gutierrez

Faculty Mentor: Melissa McCormick and Joanne Sohn

Canine munchies: How do nutrition factors impact a pet owner's decision on which brand of food to purchase?

by Victoria Quintana, Leslie Vega, Vanessa Martinon, Johanna Hernandez, and Maximiliano Rubio

Faculty Mentor: Melissa McCormick and Joanne Sohn

CPP Spay & Neuter Clinic

by Kate Herrington, Melanie De la Hoya, Megan Deiss, Mavil Fajardo, and Kaitlyn Arrington

Faculty Mentor: Melissa McCormick and Joanne Sohn

Funding Spay & Neuters

by Aaliyah Lopez, Samantha Bumanglag, Yosany Gomez, Luis Resendiz, and Rashell Zamarippa

Faculty Mentor: Melissa McCormick and Joanne Sohn

Session

14

Budget

by Samantha Medina and Melissa Velasco

Faculty Mentor: Benjamin Lehan

Food Accessibility

by Arely Navarro, Michael Bray, Trinity Pedregon, Lauren Ruiz, and Jasper Winslow

Faculty Mentor: Benjamin Lehan

Project Based Learning - Food Accessibility

by Gaby Leiva, Jocelynne Garcia, Vienna Puccinelli, and Isabel Lara

Faculty Mentor: Benjamin Lehan

Vintage Bridal for the Modern Bride

by Tania S. Hale, Linda Choi, Emily Pena, Jessica Saltikov, and Mikaela Alvarado

Faculty Mentor: Alejandra Parise

Final Project

by Ava Leighninger, Cameron Buck, Kayla Baik, and Kalina Rivera

Faculty Mentor: Alejandra Parise



Session

15

Business Concept Project

by Leslie Aquino, Daphne Huerta, Reyna Dominguez, and Sheila Strickland

Faculty Mentor: Alejandra Parise

Business concept

by Brianna Crichlow, Edeline Jacquez, Luis Contreras, and Anthony Chavez

Faculty Mentor: Alejandra Parise

AMM1010 Business Plan: Serotonin

by Taylor Bautista, Andrea Vargas, Joshua Perez, and Angie Rauda

Faculty Mentor: Alejandra Parise

Final Project: Pleasant View Co.

By Daniel Miranda, Max Herzog, Elizabeth Cruz-Gomez, Israel Castellanos, and Donnell Tinsley

Faculty Mentor: Alejandra Parise

Business Plan Project (Lead + Lounge)

by Alyssa-Kayla Marquez, Ciera Shelton, Breanna Garcia, Heavynn Farnum, and Jeffrey Santiago

Faculty Mentor: Alejandra Parise



Moderators for the FYE PolyX Projects

Nina Abramzon

Dora Lee

Jesus Bermudez Bautista

Jason Lu

Marisol Cardenas

Christy Orgeta

Maria Cerce

Olukemi Sawyerr

Claudia Garcia-Des Lauriers

Marissa Rico Setyawan

Holly M. Greene

Julie Shen

Paul Hottinger

Joanne Sohn

Jennifer Kohagura

Preeti Wadhwa

Kenneth Lamb

Joselyn Yap

We would like to thank the faculty and staff who took the time out of their busy schedules to moderate the FYE PolyX Project sessions during the 2020 FYE Showcase.



Thank you to the Learn Through Discovery and First Year Experience teams, the event moderators, faculty and staff mentors and advisors, FYE faculty, FYE students, and all attendees for helping make the virtual 2nd Annual FYE Showcase possible. We look forward to what these FYE students will achieve with PolyX during their tenure at Cal Poly Pomona.