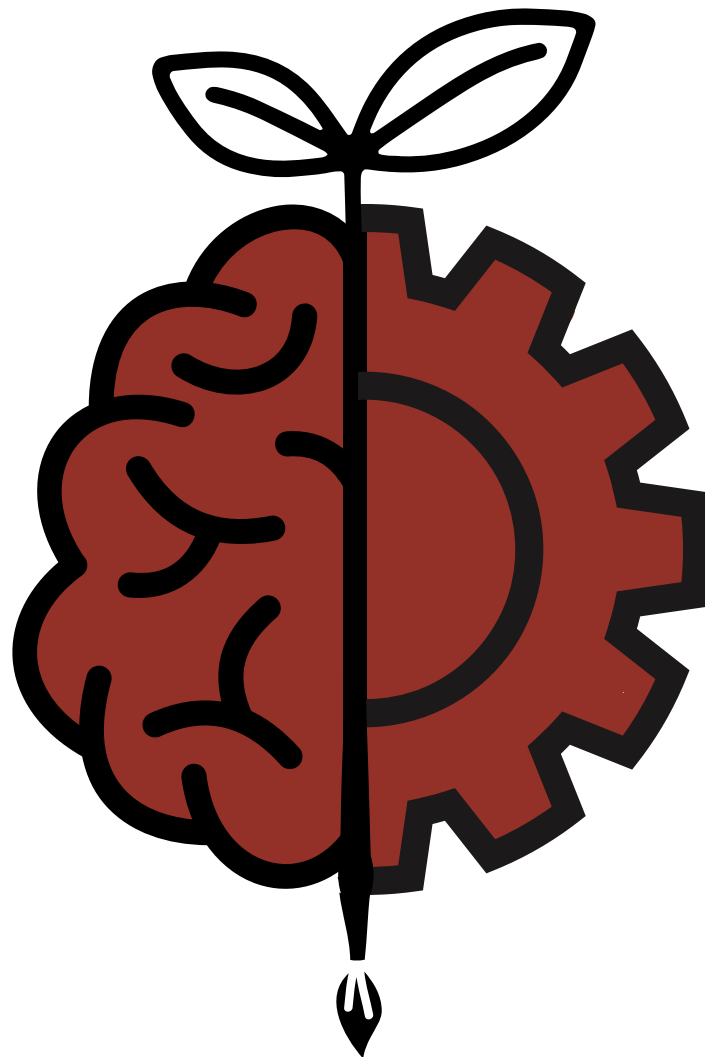


# Graduate Research & Arts 2023 Symposium

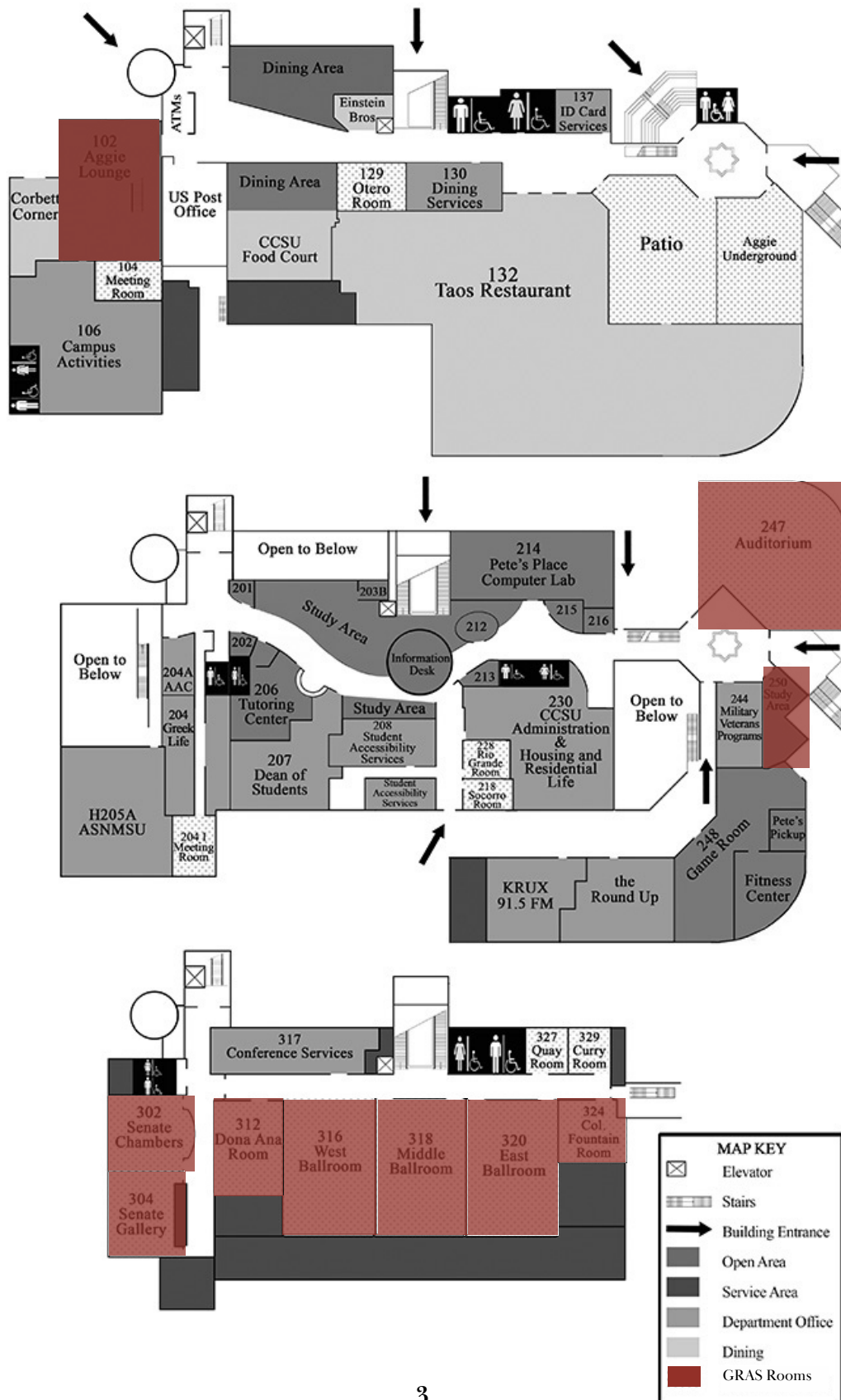


**FRIDAY, NOVEMBER 10TH, 2023**

NEW MEXICO STATE UNIVERSITY  
Corbett Center Student Union, Las Cruces, NM

**PRESENTED BY GRADUATE STUDENT COUNCIL**

# MAP OF LOCATIONS



# AGENDA

## MORNING

***8:00 A.M. - 12:30 P.M.***

**8:45 A.M.: REGISTRATION OPENS**  
BALLROOM HALLWAY

**9:00 A.M. - 9:30 A.M.: WELCOME SESSION**  
EAST BALLROOM

**9:30 A.M. - 5:30 P.M.: POSTER SESSION**  
AGGIE LOUNGE

**9:30 A.M. - 10:30 A.M.: LIGHTNING TALKS**  
WEST BALLROOM

**9:30 A.M. - 11:00 A.M.: PRESENTATION SESSION I**  
SENATE GALLERY, SENATE CHAMBERS, WEST BALLROOM, CENTRAL BALLROOM  
& COLONEL FOUNTAIN ROOM

**11:00 A.M. - 12:30 P.M.: PRESENTATION SESSION II**  
SENATE CHAMBERS, WEST BALLROOM & COLONEL FOUNTAIN ROOM

## AFTERNOON

***12:30 P.M. - 6:30 P.M.***

**12:30 P.M. - 1:30 P.M.: LUNCH BREAK**  
EAST BALLROOMS

**1:30 P.M. - 3:00 P.M.: PRESENTATION SESSION III**  
SENATE CHAMBERS, CENTRAL BALLROOM & COLONEL FOUNTAIN ROOM

**3:00 P.M. - 4:00 P.M.: PRESENTATION SESSION IV**  
DONA ANA ROOM

**3:00 P.M. - 5:30 P.M.: MUSIC AND OPEN MIC PERFORMANCES**  
CCSU AUDITORIUM

**5:30 P.M. - 6:30 P.M.: CLOSING SESSION & AWARDS**  
CCSU AUDITORIUM

# PRESENTATIONS

## LIGHTNING TALKS

9:30 A.M. - 10:30 A.M. *Center Ballroom*

### NIRAJAN PAUDEL

*Arts and Sciences - Physics*

Ab Initio Studies of the Electrochemical Reactivity of Carbon Allotropes in Rechargeable Li-ion Batteries

### LY LY TRIEU

*Arts and Sciences - Computer Science*

Explanations for Answer Set Programming

### ZARMINA AMIN

*HEST - Kinesiology*

Baseline Assessment of Upper Extremity Hand Function in Collegiate Esports Players

### STEPHANIE GETTO

*Arts and Sciences - Molecular Biology*

Effect of Bleach Treatment on the Algal Microbiome

### LISA MOYA

*HEST Communication Disorders*

Factors associated with late identification of language impairment in children

### NAVDEEP KAUR

*ACES Plant and Environmental Science*

Genomics-assisted breeding for Phytophthora capsici root rot resistance in chile peppers

### ADRIAN LUNA

*Engineering - Mechanical and Aerospace Engineering*

Dynamics of a precessing satellite with a viscous ring damper in a simulated environment.

### ELISABETH ZEITZ

*HEST - Kinesiology*

The Relationship between CrossFit® Performance and Laboratory-Based Measurements of Fitness

### NAJMEH RAHIMI

*Arts and Sciences - Chemistry and Biochemistry*

Synthesis of  $\beta$ -Lactone Proteasome Inhibitors: Overcoming Pharmacokinetics Barriers for the Development of Novel Anticancer Agents

### HUZAIFA HUSSAIN

*Engineering - Industrial Engineering*

Maximizing Strength: Investigating the Role of Carbon Fiber Orientation and Layering in PLA Composite Materials with a 6 Plates-Based Cubic Lattice Structure using advance manufacturing

# PRESENTATIONS

## LIGHTNING TALKS

9:30 A.M. - 10:30 A.M. *Center Ballroom*

### SHAHAB NOURBAKHS

*ACES - Agricultural Economics & Agricultural Business*

"Mechanical Harvesting in New Mexico's Chile Industry: A Cost-Benefit Analysis and Economic Implications"

### HAMIDAH ALANAZI

*Arts and Sciences - Computer Science*

Deep Defence Via LSTM with Attention Layer  
Detecting Probing Attack

### MADISON MARINO

*Arts and Sciences - History*

Crafting Connections: Documenting Fiber Artists' Impacts on New Mexico

### MARINA PINA

*HEST - Sociology*

How Microaggressions vary for College STEM Majors based on Race/Ethnicity and Gender

### LANCE FOUNTAIN

*ACES - Entomology, Plant Pathology, and Weed Science*

Harvester Ant Seed Preferences for Common Rangeland Restoration Grasses

### ADEDAPO ALAWODE

*ACES Agricultural Economics and Agribusiness*

Recent Trends in New Mexico Farm Income: The Significance of Government Payments

### FAEZEH CHERAGHI

*ACES - Hotel, Restaurant, Tourism Management*

Innovative Collaborations: Exploring Digital Marketing Partnerships in the Hospitality Landscape

### SHASHANK DHARBA

*Arts and Sciences - Data Analytics*

Stock Price Predictions using Artificial Intelligence

### ANAMIKA RAJENDRAN

*Arts and Sciences - Computer Science*

Social Interactions with Deniable Encrypted Messaging

### SADEGHRASOUL ROUHBAKHS

*Engineering - Civil Engineering*

Robotic Underwater structural Inspection in turbid waters

### AKSHIT MEHTA

*Arts and Sciences - Physics*

Helium-4 Excitations: An Experimental Proposal at Jefferson Lab.

### ESTEFANIA RIVERA

*HEST - Public Health*

Empowering Communities: Mosquito Abatement Education