

AIMS² SIXTH ANNUAL STUDENT RESEARCH SYMPOSIUM [Online]

- **POSTER SESSION [ON SPATIAL CHAT]:** Wednesday, April 7, 2021
3:30 – 5:30 PM PST
- **ORAL PRESENTATIONS [ON ZOOM]:** Thursday, April 8, 2021 [See schedule on following page]
Session A: 3:30 – 4:30 PM PST
Session B: 5:00 – 6:15 PM PST

Welcome Remarks

CSUN President Dr. Erika D. Beck

POSTERS on SpatialChat

Dr. Behzad Bavarian, Prof. Lisa Reiner, Manufacturing Systems Engineering and Management
Corrosion and Corrosion Protection of Aluminum Alloys for Automotive Applications
Students: Beatriz Acuna, Emily Rossiter, Christopher Villalpando

Dr. Tzong-Ying (Kay) Hao, Civil Engineering and Construction Management
Analysis of Ground Motions and its Application to Earthquake Early-Warning Systems
Students: Luke Barrella, Alex Leong, Jessica Perez

Dr. Kyle Dewey, Computer Science
1. Towards the Sentiment Analysis of Tweets
Students: Joshua Alvarado, Nuelbella Sandoval, Fernando Vargas

2. Building on the Proteus Programming Language
Students: Simran Gill, Eileen Quiroz, Frank Serdenia

Dr. Bingbing Li, Manufacturing Systems Engineering and Management
Optimization of Cam Support Plate Utilizing CAD Software and Generative Design
Students: Jason Kim, Andrew Langwald, Christian Mariscal, Abraham Meiszner

Dr. John Valdovinos, Electrical and Computer Engineering
Two-Dimensional Biomagnetic Model of Cardiac Tissue
Students: Suzanne Fisher, Jessica Frederich, Ashley Kuhnley, Robert Salone

Prof. Bruno Osorno, Electrical and Computer Engineering
Modeling and Simulation of Electric Vehicles, Energy-Battery Systems and Environmental Impact
Students: Lucia Castillo, John Dizon, Farouk Mostafa



POSTERS Wednesday, April 7, 2021 >

**ORAL PRESENTATIONS** on **AIMS² SIXTH ANNUAL STUDENT RESEARCH SYMPOSIUM**

[Online]

Session A [3:30 PM – 4:30 PM]

Zoom room opens at 3:15 PM Pacific on April 8 so guests can check in.

Welcome Remarks

CSUN President Dr. Erika D. Beck

- 3:30 p.m. **Welcome and Introduction of Special Guests**
Dr. S. K. Ramesh, Director AIMS² Program
- 3:35 PM **Overview of 2020-21 Virtual Research Program**
Dr. S. K. Ramesh
- 3:45 PM **Corrosion and Corrosion Protection of Aluminum Alloys for Automotive Applications**
Students: Beatriz Acuna, Emily Rossiter, Christopher Villalpando
Faculty Mentors: Dr. Behzad Bavarian and Prof. Lisa Reiner
- 4:00 PM **Analysis of Ground Motions and its Application to Earthquake Early-Warning Systems**
Students: Luke Barrella, Alex Leong, Jessica Perez
Faculty Mentor: Dr. Tzong-Ying (Kay) Hao
- 4:15 PM **Modeling and Simulation of Electric Vehicles, Energy-Battery Systems and Environmental Impact**
Students: John Dizon, Lucia Castillo, Farouk Mostafa
Faculty Mentor: Prof. Bruno Osorno
- 4:30 PM Session A concludes

Session B [5:00 PM – 6:15 PM]

Zoom room opens at 4:45 PM for Session B for Guests to check in.

Welcome Remarks

CSUN President Dr. Erika D. Beck

- 5:00 PM **Generative Design of Cam Plate Optimization for Metal Additive Manufacturing**
Students: Jason Kim, Andrew Langwald, Christian Mariscal, Abraham Meiszner
Faculty Mentor: Dr. Bingbing Li
- 5:15 PM **Towards the Sentiment Analysis of Tweets**
Students: Joshua Alvarado, Nuelbella Sandoval, Fernando Vargas
Faculty Mentor: Dr. Kyle Dewey
- 5:30 PM **Building on the Proteus Programming Language**
Students: Simran Gill, Eileen Quiroz, Frank Serdenia
Faculty Mentor: Dr. Kyle Dewey
- 5:45 PM **Two-Dimensional Biomagnetic Model of Cardiac Tissue**
Students: Suzanne Fisher, Jessica Frederich, Ashley Kuhnley, Robert Salone
Faculty Mentor: Dr. John Valdovinos
- 6:00 PM **Survey of Sixth Annual Research Symposium**
Ms. Josefina Gudino
- 6:05 PM **Concluding Remarks**
Dr. S. K. Ramesh

