

RISE ABOVE RESEARCH CONFERENCE CARING FOR GOD'S CREATION

APRIL 7, 2022

"IN HIS HAND IS THE LIFE
OF EVERY CREATURE
AND THE BREATH OF ALL
MANKIND." JOB 12:10



Conference Program

Design for the 2022 poster was by Joseph Dykes in Art Brown's GRDS 456 class
* Winners of 2022 Conference Theme *Caring for God's Creation*

POSTER SESSION 1

2:00-3:00 Hosted by Joy Drinnon

Derthick 2nd Floor Lobby

“Survivalist Chemistry: Producing Organic Solvents to Harness Herbology”

Samuel Kelly

Mentor: Matthew McDonald

“Student Perceptions on Online Nursing Education”

Elizabeth Dotson

Mentor: Beth Crouch

“Why Old Testament Wisdom?”

Skylan Stephens

Mentor: John Jackson

“Climate Change and its Impacts on Mental Health”

Mallory Leichty

Mentor: Hongyou Lu

“Novel Antibiotic Compounds For Killing Of Pseudomonas aeruginosa Biofilms”

Cameron McConnell

Mentor: Kristen Mudrack

TECHNOLOGY AND ENGINEERING DEMONSTRATIONS

2:00-4:00 Hosted by Greg Harrell

Derthick balcony (or lobby)

“Cedar Grove UV System Improvements”

Lowrie Arnold, Mitchell McKinney, Yonas Sorri, & Hunter Strouth

Mentor: Jeffrey Giese

“A Sustainable Solar Cooker for Developing Countries”

Erin Forgety, Iris Fregoso, Abenezer Gidafe, & Elliot Baldy

Mentors: Daniel Cutshall & Choonsang Park

“Water Sustainability for Sambalat”

Alexandre Frances, Cody Leonard, Alayna Perryman, & Steven Shake

Mentor: Gregory Harrell

“Plastic Lifecycle: Recycling Via Shredding”

Logan Brown, Braxton Dukette, Korynne Taylor, & TJ Wilson

Mentor: Landon Holbrook

“Milligan Robotics Remote Operated Vehicle Development”

Robotics Team

Mentor: Ian Lundholm & Teresa Carter

Robotics Team: Henry Holben, Gracie Crabtree, Chris Heaton, Steven Shake, Luis Betances, Caleb Turner, Landen Street, Weston Street, Jacob Russell, Megan Miles, Darin Pickelheimer, Ben Hawkins, Chance Hall

ORAL PRESENTATION SESSION 1: Humanities & Fine Arts

2:15-3:15 Moderated by Todd Edmondson

Derthick 207

[Meeting Link](#) or Enter Meeting ID 840 3631 3816 in Zoom Application. Meeting Password 500121

“Wendell Berry's Vision of Enacted Community in the Story of Hannah Coulter”

Isaac Wood

Mentor: Phil Kenneson

““If I were in heaven, Nelly, I should be extremely miserable”: Experiencing Existence and the work of Emily Brontë”

William Rucker

Mentor: Kayla Walker Edin

“From Pulp to the Web: The Evolution of Sequential Art & Visual Storytelling ”

Sarah Greer

Mentor: Art Brown

ORAL PRESENTATION SESSION 2: Religious Studies

2:15-3:15 Moderated by Lee Blackburn

Derthick 209

“Lay Down your Stones: A Look Into Why Christians Support The Death Penalty and The Justifications For Being Against It.”

Elise Greene

Mentor: Jeff Miller

“Origen: Platonism and the Preexistence of Souls in the Gospel of John”

Anna Konstantopoulos

Mentor: Lee Blackburn

“Influence of Divine Imagery on Patriarchal Leadership in the Church”

Molly Dycus

Mentor: Jeff Miller

ORAL PRESENTATION SESSION 3: Sports Analytics

2:15-3:15 Moderated by David Campbell

Derthick 202

“Predicting the Stanley Cup Playoff Tree”

Ethan Pfister

Mentor: David Campbell

“Premier League Performance After Midweek Games”

Moses Coley

Mentor: David Campbell

“Study of how predictable the end of season Formula 1 championship is using data from the first three races”

Aubin Dulin

Mentor: David Campbell

ORAL PRESENTATION SESSION 4: Economics

3:30-4:30 Moderated by David Campbell

Derthick 202

“Hurt to Work: How Long are NFL Players Out for Injuries”

Jake Crow

Mentor: David Campbell

“The factors to effect MLB positions players' salary”

Herver Yang

Mentor: David Campbell

“Save the Earth or Yourself?”

Catherine Manifold

Mentor: David Campbell

“State governments’ efficiency on forcing residents to move”

Nicholas Florio

Mentor: David Campbell

ORAL PRESENTATION SESSION 5: Psychology

3:30-4:30 Moderated by Christine Browning

Derthick 207

[Meeting Link](#) or Enter Meeting ID 831 5302 7290 in Zoom Application. Meeting Password 469114

“Emotional Implications of Adopting a Drug Exposed Child”

Caroline Gamble

Mentor: John Paul Abner

“The correlation between ACE scores, self-esteem, and relationships in college”

Christina Triplett

Mentor: Christine Browning

ORAL PRESENTATION SESSION 6: Justice Studies

3:30-4:30 Moderated by Mark Matson

Derthick 209

“Food Fight: The True Cost of Agriculture in the Amazon Rainforest”

Blake Fauver

Mentor: Heather Hoover

“Silence in the Face of Racism: Exploring the Inaction of White Christian Churches/Churches of Christ During the Civil Rights Movement”

Emily Messner

Mentor: Tim Dillon

ORAL PRESENTATION SESSION 7: Chemistry

5:00-6:00 Moderated by Matthew McDonald

Derthick 208

“Survivalist Water Filtration”

Dakota Topp

Mentor: Matthew McDonald

“An Exploration of the Effects of Quorum Quenching Reagents Against *Pseudomonas aeruginosa* Biofilms”

Danielle Bryant

Mentor: Kristen Mudrack

“Inhibition of Tyrosinase Through a Phenol-Aniline Azo-Stilbene Inhibitor and its Novel Derivatives”

Samuel Kelly

Mentor: Kristen Mudrack

FACULTY LECTURE

7:00-8:00 Moderated by Joy Drinnon

Hyder Auditorium

[Meeting Link](#) or Enter Meeting ID 847 0825 6062 in Zoom Application. Meeting Password 755769

“Energy and Sustainability: A Focus on the Industry Sector”

By Hongyou Lu



Industry sector is one of the “harder-to-abate” sectors. It accounts for one-third of global energy use and 35% of carbon dioxide emissions in the world. This lecture presents the current trends of energy demand and emissions in the industrial sector. It discusses the technological, economic, and institutional challenges to significantly reduce emissions in this sector, as well as potential solutions to make the industrial sector more sustainable.

Hongyou Lu is the Program Development Associate for Engineering and Assistant Professor of East Asian Studies at the Milligan University. She is also a Senior Scientific Engineering Associate in the Building and Industrial Applications Department of the Lawrence Berkeley National Laboratory. In her research, Hongyou conducts thermal energy modeling, technology assessment, and data analysis in key energy-intensive industries, such as cement and steel industries.

Join us next year for the 10th anniversary of Rise Above



RISE

ABOVE RESEARCH CONFERENCE

Ethical Innovation:

Creating a Better Future for Everyone

April 13, 2023

"Do not conform to the pattern of this world, but be transformed by the renewing of your mind. Then you will be able to test and approve what God's will is—his good, pleasing and perfect will."

Romans 12: 2

*ABSTRACTS DUE
MARCH 24, 2023*

www.milligan.edu/research/conference

*2023 poster design by Katherine Eldridge