
SCHOLARS DAY

2022

PROGRAM OF EVENTS

SCHOLARS DAY

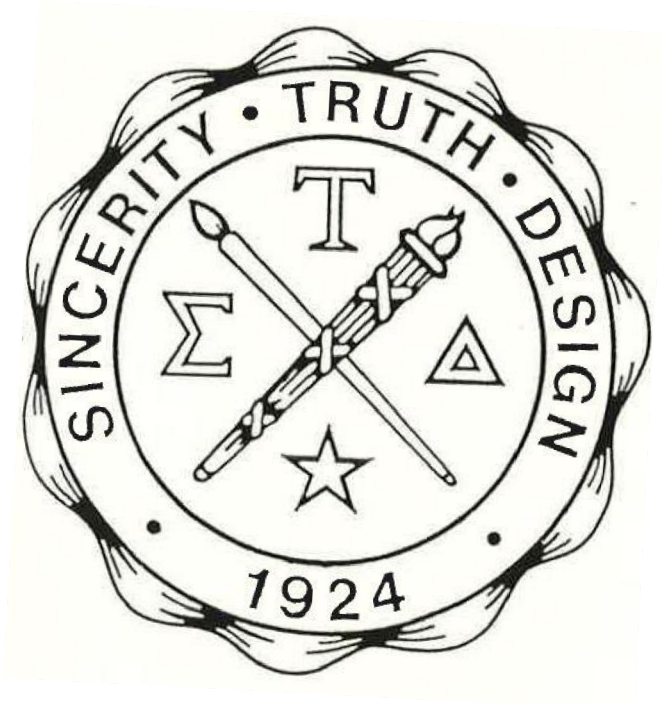
April 27, 2022



PROGRAM OF EVENTS

THE CARL GOODSON HONORS PROGRAM
WELCOMES YOU TO SCHOLARS DAY

THANK YOU FOR SUPPORTING THE HARD WORK
OF OUACHITA'S SCHOLARS



Sigma Tau Delta Presents

SCOPE

Ouachita's Literary Magazine

Pick up a copy in Walker Conference Center!

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Alpha Chi Inductions

Come to the purple tent on the lawn in the middle of campus to celebrate the initiation of our students into one of the nation's top honor societies for all academic disciplines. Alpha Chi inducts juniors and seniors whose GPAs rank in the top ten percent of their respective classes.

The entire campus community and Scholars' Day guests are welcome to this brief ceremony. In the event of inclement weather, we will meet in Berry Chapel.

12:30

Poster Presentations

Group 1

Walker Conference Center B

Coleman Callan, Host

1:45-3:00

1. Khennedy Brunson

Exploring Correlations Between Participation in Extracurricular Activities at the High School Level with the Likelihood of Adult Criminal Record

2. Cole Edrington

Recreational Sport's Relationship to Violent Crime Rates

3. Luke Falco

Is Incarceration the Best Solution to Consequent Criminal Activity in the Black Community?

4. Nathan Scolaro

Connections Between Alcohol and Illegal Drug Use and Violent Crime Within the Black Community

5. Perry Taylor

How Can After School Programs Lower the Crime Rate

- 6. Kiki Youmans**
Adverse Childhood Experiences (ACEs) &
Violent Crime Within the Black Community
- 7. Paul Harwood & Will Weir**
Improving Military Performance of Load
Bearing Exercises
- 8. Madison Montgomery**
Screening Balance of Division II Athletes
- 9. Johnathon Callum & Caleb Woodfield**
Comparison of Postural Variable in Division II
Athletes and Non-Athlete College Students
- 10. Libby Tomlin**
Comparison of Knee Flexion in Athletes and
Non-Athletes
- 11. Sarah Tuller**
The statistical Analysis Comparing the Heat
Index Temperatures to the Rare Football
Related Heat Illnesses in Prescott, Arkansas
- 12. Jay Brumsey, Dawson Goodwin, Annika Jostad &
Saba Esho**
Effects of Gender Stereotyping on Learning
- 13. Elizabeth Byrd & Bella Bevel**
Perceived vs Actual Learning in Virtual and
In-Person Classes
- 14. Alex Delgado & Karigan Clay**
The Effect of Social Media on Self Esteem

- 15. Taylor Langston, Kelby Cansler & Joseph Lattier**
Emotional Regulation by Socioeconomic Status
- 16. Lauren McCann, Natalie Helms & Mea Heard**
The Effect of Sadism and Racism Levels on a Person's Willingness to Harm an Innocent Victim
- 17. AubrieKate Moseley, Lacy Ornelas, Cameron Marchant & Lauren Jenkins**
The Effects of Personality on Chills and the Response to Live or Recorded Music
- 18. Seth Curl**
Spawn Patterns of Largemouth Bass on DeGray Regulating Lake
- 19. Makenna Kager**
New *Paenibacillus* Bacteria Genome Assembly
- 20. John Peyton**
Phage Discovery Research
- 21. Franco Zuniga**
Bacteriophage Infection on Different Host Bacteria
- 22. Kaleigh Thomas**
Tree Canopy Cover Influences Habitat Use of Breeding Birds at Jack Mountain Wildlife Management Area

- 23. Grace Tidwell**
Bird Diversity and Abundance in Relation to
Habitat Complexity at Jack Mountain Wildlife
Management Area
- 24. Anderson Fulton**
Bioinformatic Analysis of Transcription Factor
ZNF16 Removal from Blood Cells
- 25. Lauren McCann**
Identification of miRNA Targets as Lung
Cancer Therapeutics
- 26. Reese Chesshir**
The Effects of Light Wavelength and Gravity
on *Physarum polycephalum* Growth
- 27. Thomas Harrington**
The Effects of Gibberellic Acid and Light on
Brassica rapa Growth and Development
- 28. Natalie Moore, Sarah Spakes, Dakota Furr, Emma
Dennis, Makena Munger & Hannah Webber**
Cemetery Preservation Workshop: Public
History at Work

Group 2
Walker Conference Center B
Alex Browning, Host
3:15-4:30

- 1. Sidney Pigott**
The Potential Advancement of Photodynamic Therapy Using a Novel Water-Soluble Zinc Porphyrin, ZnTPP-5AP
- 2. Emma Rouse**
The Development of a New Water-Soluble Zinc Porphyrin, ZnTTP-3AP, and Its Potential as Photodynamic Therapy Agent
- 3. Marly Welborn**
ZnTPPEA as a Potential Photosensitizer in Photodynamic Therapy
- 4. Jimmy Castro & Bennett Hasley**
Using Emitted Vibrational Frequencies to Determine Watermelon Sweetness
- 5. Adrian Salazar-Rivera**
Optimizing a Passive Tracking Solar Panel System
- 6. Josh Spiva**
Incorporating a Bioengineered Protein and a Collagen Analog into Modern Wound Dressings

7. **Andrew Tarlton**
Alternative to Modern Wound Dressings:
Developing a Biodegradable Collagen Analog
8. **Keren Fernandez**
Monitoring the Leaching of Bisphenol-A
From Panty Liners Using Fluorescence
Spectrophotometry
9. **Keren Fernandez**
Sensory Evaluation of Banana Bread Using
Different Fat Substitutes
10. **Erica Gaddie & Keren Fernandez**
The Effects of Eating Habits on the Mental
Health of College Students
11. **Erica Gaddie**
Sensory Evaluation of Black Bean Brownies
Prepared with Sugar Substitutes
12. **Erica Gaddie**
Effects of COVID-19 Lifestyle Changes on
Eating Habits of Individuals and Families: Is
There an Increase in Obesity and Other Health
Problems?
13. **Gwyneth Hadasa**
The Effects of COVID-19 on Childhood
Obesity: A Quasi-Systematic Review

- 14. Gwyneth Hadasa**
Sensory Evaluation of Biscuits Prepared with
Flour Alternatives
- 15. Maria Urbina**
Assessment of Malnutrition in Elderly Adults
Implementing the Nutrition Focused Physical
Exam
- 16. Maria Urbina**
Sensory Evaluation of Brownies Prepared
with Different Types of Fat
- 17. Meg Atchison**
Use of Milk Alternatives in a Muffin Mix to
Determine Acceptance for Lactose Intolerant
Individuals
- 18. Michelle Byers**
Sensory Evaluation of Different Egg
Substitutes in Pancakes
- 19. Cannon Fisher**
Sensory Evaluation on Adding Collagen
Powder to Desserts.
- 20. Tony Threadgill**
Sensory Evaluation of Chocolate Chip
Cookies with Egg Substitutes

- 21. Erica Klitz & Molly Hunter**
An Assessment of Energy Drink Consumption
Among Students and Their Knowledge
Regarding the Potential Health Implications
- 22. Allison Robertson & Blanca Rodriguez**
The Comparison of Nutrition Knowledge
Between Male and Female Athletes
- 23. Alyssa Huber**
The Correlation Between a Nutritious Diet
and a Ouachita Baptist University Student's
Academic Performance
- 24. Ashleigh Batte & Angelica Montes**
Weekly Consumption of Fruits and Vegetables
Among Undergraduate Students
- 25. Emily Garrett & Latina Robinson**
Nutritional Knowledge of Faculty and Staff at
Ouachita Baptist University in Comparison to
the Standards of USDA
- 26. Jessie Golden & Amanda Almand**
Nutritional Knowledge of Fiber Consumption
in Undergraduate Students
- 27. Calley Maples, Rue Ragsdale & Drew Crutchfield**
A Combined Analysis of the Benefits of
Breastfeeding for Mothers and Infants

Music Recital

McBeth Recital Hall

Alex Browning, Moderator

2:00 P.M.

Music Program

Clarinet Concerto No. 1, Op. 26

Louis Spohr

II. Adagio

Lane Dunman, Clarinet

Kristen La Madrid, Piano

Memento

Ivan Trevino

(1983-)

Chloe Spraggins, Marimba

Fantastic Dance No. 2

Dmitri Shostakovich

Jenna Barnes, Piano

Two Little Lines

Drew Gasparini

(1986-)

Payton Mixon, Mezzo-Soprano

Susan Monroe, Piano

Killer Instinct
from **Bring It On**

Tom Kitt,
Lin-Manuel
Miranda and
Amanda Green

Sara Kate Cole, Mezzo-Soprano
Phyllis Walker, Piano

A Green Lowland of Pianos

Samuel Barber

Cordell Hufstedler, Tenor
Susan Monroe, Piano

Maybe I Like It This Way

The Wild Party

Erin Bagley, Soprano
Phyllis Walker, Piano

Toccata

Khachaturian
(1903-1978)

Andrew Pierce, Piano

Strive to be Happy

Ivan Trevino
(1983-)

Braden Crawley, Marimba

Cute Boys with Short Haircuts
from **Vanities**

David
Kirshenbaum

Isabella Owen, Soprano
Phyllis Walker, Piano

Lost in the Brass
from **Band Geeks**

Mark Allen, Gaby
Alter and Tommy
Newman

Kailey May, Mezzo-Soprano/Belter
Phyllis Walker, Piano

Distance

Michael Barnes

Jonathan Sandy, Marimba

Heart of Stone
from **Six**

Toby Marlow and
Lucy Moss

Halle Jones, Mezzo-Soprano/Belter
Susan McGee, Piano

Tango Virtuoso

Terry Escaich

Ouachita Saxophone Quartet

Craig Crawford, soprano
Graham Scarborough, alto
Cross Brandon, tenor
Josh Sutton, baritone

Theatre Arts Performances

4:00 p.m.

April 27th, 2022

Verser Theatre

Original Works:

S* and Joy**

Kassidy Bond, Abby Burlison,
Maddy Moore & Savannah Staggs

Chaos and Joy

Eli Butler, Kinder Hinrichs, Marion Webb &
Grace Woodward

Inside the creation of Tanglewood:

1. Sam Campione- On Direction, Writing & Composition
2. Brynlee Beams- On Scenic Design
3. Grace Woodward- On Costume Design (assisted by Kinsey Potts)

Max and Betsy's Bloomin' Perfume and Fragrance

Erin Bagley and Mac Ricks

Art Exhibitions

Rosemary Gossett Adams Gallery, Moses-Provine Hall
2:00 P.M.

Senior Exhibitions

Erica Dixon
Cheers

Grace Avery
Rogue

Emma Gregory
Contemplation

Mikayla Williams
Reflection

**2022 Student Juried Art Show Reception and
Award Ceremony
Sponsored by the OBU Art Club
Hammons Gallery, Mabee Fine Arts
4:30 P.M.**

Juried by alumnus Jared Tohlen

Maegan Royster

Falling French Fries
Blooming

Lauren Bridgeman

Texas Citrus

Madeline McKay

Organized Chaos

Allie Mooney

Triptych: Hyperactivity, Absent-Mindedness, Impulsivity

Katie Leggett

Collision of Thought

Avery Womack

Untitled

Emma Gregory

Still Life

Jill Parsons

Hercules and Hydra

The Marilyn of Bauhaus

Tehya Hinkson

Terra Infirma

Jozie Burson

Family Land

Deer

Thomas Parsons

Pushed Perspective

Erica Dixon

Fall Sidewalk

Kasey Dumas

Heart of Gold

Holding On

Sarah Dean

Girl in Shadow

Sabaoth Esho

Arta Givarkes Exhibit Poster

Melanated Mona

Honors Theses

Walker Conference Center A

Alex Moore, Moderator

1:30 P.M. - 5:10 P.M.

1:30 Kayla Whittington

Developing Novel Water-Soluble Porphyrins for
Potential Use as Photosensitizers in Photodynamic
Therapy

1:50 Emma Bynum

Effects of Storage Conditions on BPA
Leaching from Infant Oral Hygiene Products
Using Fluorescence Spectroscopy

2:10 Cori Clower

Comparative Analysis of Drug Inclusion Techniques
in Nanofiber Mats

2:30 Gwyneth Hadasa

Evaluation of Artificial Sweeteners: Their Effects on
Ice Cream Properties and Public Acceptance

2:50 Emily McMaster

Counseling for Psychosocial Stress Factors
Associated with Hearing Loss

3:10 Jonah Mears

A Fractal Geometry for Hydrodynamics

- 3:30 Rylie Davis**
Analyzing Viral and Host Gene Expression
in *Gammaherpesviruses*
- 3:50 Luke Brinkerhoff**
Bacteriophages: Paving the Road for the
Future of Medicine
- 4:10 Hyland Alfonso**
Comparing Genetic Diversity Along
Populations of Rock Sandpipers (*Calidris
ptilocnemis*)
- 4:30 Jade Dorman**
Effect of Lung Carcinoma Exosomes on the
Tumor Microenvironment and
Characterization of Contents as Novel
Therapy
- 4:50 Dane Jester**
Investigating the Impact of Enhancer
Inhibition in ETO2-GLIS2 Expressing
Pediatric Acute Myeloid Leukemia

Walker Conference Center C

Kensley Flynn- Moderator

1:30 P.M. - 5:10 P.M.

1:30 Josie Collins

Two Peas in a Pod? An Investigation of Friendship and Personality Perception

1:50 Allison Martin

The Effects of Parenting on the Behavior of Children with Autism: A Meta-analysis

2:10 Isabella Wood

A Comparison of Stigma Levels for Individuals with Psychological Disorders and Individuals with Intellectual Disabilities

2:30 Victoria Martin

A Meta-Analysis on the Differences in Neuroplasticity Between Women and Men After Traumatic Brain Injuries

2:50 Hannah Herrington

An Oncoviral Analysis: Breaking Down the Genetic Mutations of Cancer Causing Viruses and How They Compare with the Genetic Mutations of the Cancer They Cause

3:10 Lauren McCann

Identification of miRNA Targets as Lung Cancer Therapeutics

3:30 Maddie Bailey

Next Steps: Arkansas's Journey in the Fight
Against Sex Trafficking

3:50 Brianna Taylor

Memory and Memoirs: A Study of the Battle of
Shiloh

4:10 Rachel Sansano

Monsters in Media: A textual Analysis of True
Crime in Narrative Journalism

4:30 Katelyn Still

The Hidden Voices: Peggy Gilbert and The
International Sweethearts of Rhythm

4:50 Brennan Saunders

A New Generation of the NCAA: How Two
Major Rules have Changed the College
Landscape

Young Auditorium
Elizabeth Phifer- Moderator
1:30 P.M. - 5:10 P.M.

1:30 Anna Leicht

Teaching Music in the Age of Zoom: How to Run a Multimedia Piano Studio

1:50 Sam Youmans

Grasping the Intangible: The Perseverance of Physical Music Media in a Digital World

2:10 Jael Winterholter

A Biblical-Theological Analysis of the Term “Doxa” (Glory) in the New Testament

2:30 Jacob Thomas

Why “Monotheistic” May Not Be the Best Description of the Old Testament

2:50 Lacey Pettigrew

An Investigation of Prominent Christian Women in the Early Church

3:10 Lucas McCann

The Scribe, The Prophet, and The Monk: Three Archetypes for Pursuing God through the Word of God

3:30 Cora Saddler

A Bag of Marbles

- 3:50 Elysian Majeske**
Effects of Aquatic Therapy for Children with Autism
- 4:10 Haddon Smead**
Of Spies and Assassins
- 4:30 Grace Loftin**
Rock Climbing Therapy for Individuals with Disabilities
- 4:50 Langley Leverett**
Challenging White Fragility Through Black Feminist Political Poetry

Presentations

Berry Bible Building 126

Isabella Bejarano, Moderator

Dr. Jerusa Carvajal, Co-Moderator (for Spanish Series)

1:30 P.M. - 5:10 P.M.

1:30 Emma Gregory (Honors Thesis Presentation)

The Architecture of Movement

1:50 Piper Fain

Glaucoma

**2:10 Chris Bryan, Jacob Street, Grant Winger, &
Noah Worley**

Finance Major Opportunities

2:30 Kayla Whittington

Improving Healthcare Disparities for Hispanic
Patients in the United States

2:50 Karlee Kindy

Latin American Universities (The University of
Buenos Aires)

3:10 Breanna Watson

Venezuela y Su Situación Económica (Venezuela and
Its Economic Situation)

3:30 Graca Webster

New Direction in Foreign Language Learning:
Leisure Learning

3:50 Jillian Jones

Sacred Spaces

4:10 Kaitlyn Stoddard

An Analysis of the Arkansas Poll from 2000-2020

4:30 Izzy Baughn

Factors Influencing Females and State Legislature
Involvement

4:50 Hannah Smith

Though I May Slip

Hickingbotham 200
Sydney Motl, Moderator
1:30 P.M. - 4:50 P.M.

1:30 Jacob Bowman

The Correlation of Winning and Money-Baseball

1:50 Julianna Parsons

How Baking Healed My Trauma

2:10 Sara Hulse

Exercise Is Medicine

2:30 Austin Crook

Kanji: Origins and Formation

2:50 Andy Strauss

Mountains in the Deep: My Process For Writing a
Fantasy Novel Based on Daniel

3:10 Caroline Derby

Barbara Walters: Beating the Odds in Journalism

3:30 Isabella Wood & Sydney Motl

Rewritten: Biblical Womanhood and the Concept of
Feminism

3:50 Mason Campbell

Diwali and Its Origins

4:10 Jael Winterholter

The Western Wall: A Discussion of Its History and
Jewish Significance

4:30 Anna Kate Velasquez

Messianic Judaism

McClellan Hall 204
Noah Smith, Moderator
1:30-4:50

1:30 Caroline Derby

An Analysis of Characteristics of Places with
a High Undocumented Worker Population

1:50 Kathryn Totty

Analyzing Potential Impacts of Poverty in the
United States

2:10 Alexis Perry

How Phage Therapy Can Combat the
Antibiotic- Resistance Crisis

2:30 Aiden Doss

Factors That Influence the Severity of Ebola
Virus Symptoms

**3:10 Olivia Nethercutt, Reece Gray, Glenna Ratcliff, &
Kailey May**

The Laas Geel Caves

3:30 Baker Kendrick

Chronic Wasting Disease in Deer and Elk
Herds in Arkansas

3:50 Harry Jeffrey

Biomimetic Poly (Acrylic Acid) Fiber
Scaffolds for Biomedical Applications

4:10 Aubree Seibert

The Photodynamic Therapy Potential of a
Novel Water-Soluble Gallium Porphyrin

4:30 Reagen Neal

Exploration into a Modern Wound Healing: A
Synthesis of a Biomimetic Polymer

4:50 Grace Bornemeier

What an Expecting Mother Should Know

Acknowledgements

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Notes
