
SCHOLARS DAY

2024

PROGRAM OF EVENT

SCHOLARS DAY

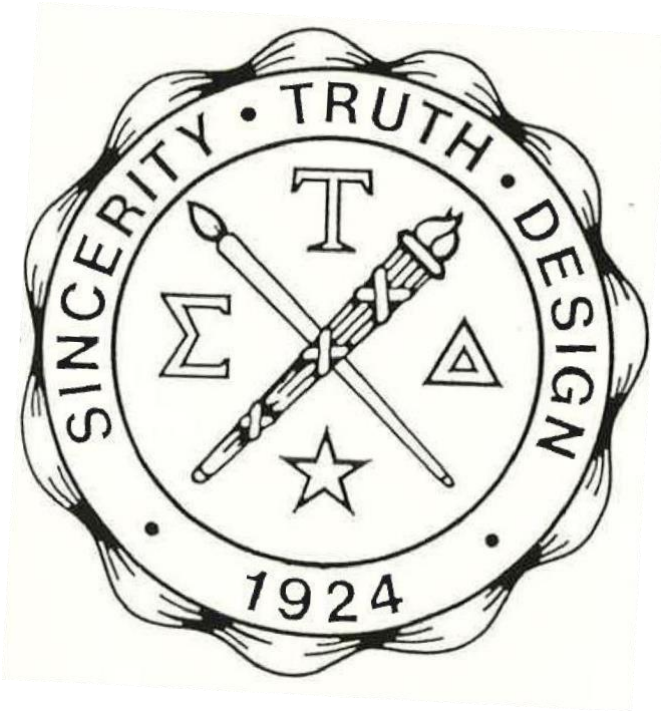
April 24, 2024



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

Jackson Edds, Host

1:45-3:00

- 1. Grace Renois, Reyna Rogers & Morgan Cobb**
Effects Fidget Toys Have on Focus
- 2. Elly McDonald Izzy Breaux, Rachel Langham & Kendall Gall**
Social Media Use and Mental Distress States Among College Students
- 3. Keilee Holcomb, Katie Cofer, Emily Adams & GraceAnn Covington**
Learning Styles and Gender: How They Influence Academic Performance
- 4. Emry Johnson, Allie Bailey, Emily Greenwell & Rebecca Danuwar**
What is Realistic Love?
- 5. Tag Pacot, Samantha Watson, Emory Knox & Laney Mears**
Stressin' Me Out: A Comparison of Stress Levels in Student-Athletes and Regular College Students

- 6. Emma Gipson, Meredith Medford, Isabel Butler & Heather Nutt**
Finding a Date Based on Attraction
- 7. Allison Hernandez, Arcrel Lee, Alicia Thomas & Dalton Lunday**
The Impacts of Personality Traits on Academic Major Choice
- 8. Addie Robertson**
Self Esteem and Political Participation
- 9. Scarlet Bates**
The Pipeline from School to Prison: The Correlation between Intellectual Disability and Delinquency
- 10. Olivia Eggleston**
How Families are Portrayed on Television
- 11. Charles Parkinson**
Mental Illness in Relation to Gender and Race
- 12. Joshua Slocum**
Racial Diversity among Juvenile Offenders
- 13. Megan Monk & Keelan Williams**
Explosive Muscular Power Correlation with Reaction Time of D2 Collegiate Runners and the Effects of Reaction Time Intervention

- 14. Susannah Arnn, Gannon Connelley & Terrance Murray**
Balance Inefficiencies in Athletes with Lower Extremity Surgeries
- 15. Kobe Dunlap**
Increasing Vertical in Athletes
- 16. Meredith West & Kasha Baker**
The Effects of a Four Week ACL-Prevention Program on the McCall Hamstring Test in High School Female Volleyball Athletes
- 17. Kate McCown, Chad Gschiedle & Noah Smith**
A 4-Week Neuromuscular Training Program on Squat Power in Division II Collegiate Athletes

Group 2
Walker Conference Center B
Nathan Price, Host
3:15-4:30

1. **Skylar Schaffer**
Russian Nationalism: Dmitri Shostakovich

2. **Adam Lott, Sarah Hankins, Kloe Parsons & Paige Tankersly**
COPD Prevention: Does Education Through Social Media Lower Smoking Rates in Adolescents?

3. **Lindsay Hachat, Carlin Clark, Tiffani Chew & Jocelyn Hayes**
Patient Compliance Through Education for Type 2 Diabetics on New Medications:
SGLT-2 Inhibitors and GLP-1 Analogues

4. **Mackenzie Amaya, Leah Miller, Olivia Dixon & Riley Kratz**
Effects of Exercise and Vitamin D on Those 65 and Older Living with Osteoporosis

5. **Mary O'Sullivan, Katelyn Lu, Ella Ragar & Kylie Carpenter**
The Effects of Evaporating Cooling Techniques in Comparison to Cooling IV Fluids in Reducing Infant Mortality Rates in Infant Vehicular Hyperthermia

- 6. Constance Ecker, Hannah Crosswhite & Lauren Jamell**
The Impact of Overseas Military Service on COPD
- 7. Baylie Slone, Kie Crone & Madison Lovell**
Assessing Caffeine Consumption Changes from High School to College among College Freshmen
- 8. Madison Lovell & Brooklin Pitard**
Nutrition Assessment of Pre-school and School-Age Children
- 9. Brooklin Pitard**
Nutrition Assessment of Older Adults Using the Nutrition Focused Physical Exam
- 10. Will Ross & Lawrence Davis**
The Effects of Light, Darkness, and Hypogravity on the Development and Movement of *Dictyostelium discoideum*
- 11. Paige Spicer & Payton Crum**
Analyzing Wisp DNA Sequences and Building Primers for DNA Separation
- 12. Abbigail Wood**
Superinfection of Cluster DI Lysogens by Phage Ruthy
- 13. Carson Craft**
Genetic Diversity of Extant Populations of *Warea amplexifolia*

- 14. Emily Payne**
The Development of a New Water-Soluble Zinc Porphyrin, ZnTPP-2MP, as a Photodynamic Therapy Agent
- 15. Whit Lawrence & Emily Payne**
Climate Change: Is it an Existential Crisis?
- 16. Trace Morrow**
Proliferation and Oxygen Production of *Arthrospira platensis* in Varying Light Intensities
- 17. Rachel New & Yu Chan Jeong**
Predicting Watermelon Sweetness from Induced Vibrational Frequencies

Music Recital

W. Francis McBeth Recital Hall

Mabee Fine Arts Center

2:00 P.M.

Program

All Good Gift from *Godspell*

Stephen Schwartz

(b. 1948)

Logan Babel, Tenor

Kristen La Madrid, Piano

Sonata for Clarinet and Piano

Francis Poulenc

I. Allegro tristamente

(1899-1963)

III. Allegro con fuoco

Lane Dunman, Clarinet

Kristen La Madrid, Piano

Kinderszenen, Op.15

Robert Schumann

Kind im Einschlummern

(1810-1856)

Der Dichter S

pricht

Jenna Barnes, Piano

Lost in the Brass from *Band Geeks*

Lindsay Mendez

(b. 1983)

Annsley Clay, Mezzo-Soprano

Kristen La Madrid, Piano

Concierto de Invierno

Rafael “Bullumba” Landestoy
(1925-2018)

Andrew Pierce, Piano

Two Dances for Timpani

Larry Anderson

I. Salsa

II. Galop

Micah West, Timpani

An die Nacht

Richard Strauss
(1864-1949)

Kieran Malmer, Soprano
Susan Monroe, Piano

Valse for six hands

Sergei Rachmaninoff
(1873-1943)

Jenna Barnes, Noah Canon, and Owen Dodd, Piano

Rhythmic for Timpani

Paopun Amnatham

Carter Smith, Timpani

Art Exhibitions

**Rosemary Gossett Adams Galleries, Moses-Provine Hall
April 24-May 3, 2024**

Senior Exhibitions

Gallery I:

Kayte Leggett & Emily Caraway
“Kitsch”

Gallery II:

Katie Dubrowski
“Beautiful Chaos”

Neal Cole
“Neal’s Senior Exhibit”

Reception April 26th at 5:30 p.m.

2024 Student Juried Art Show
Hammons Gallery, Mabee Fine Arts
Sponsored by the OBU Art Club
Awards Ceremony 4:30 P.M.
Juried by Kevin Cates

Brynlee Beams

“In the Quiet Hour”

“Percy”

Bryce Benson

“Tomorrow Land”

Victoria Blum

“Bite the hand that feeds”

“Memories of Mom”

Jozie Burson

“Traces of Flora”

Elijah Christenson

“Chefchaouen Morocco”

Jubilee Christenson

“You Should”

Sarah Dean

“Lady on the Lake”

“The Cape”

“The Misty Shoreline”

Ashlyn Holt

“Lolla Palooza”

Darby Jones

“Rearview Mirror”

Isabel King

“A Study of Self”

Madeline King

“History of Stoplights”

Cade Knoernschild

“A Piece of My Privacy”

“You didn’t know that I suffered”

Leila Langdon

“I don’t know why I bite”

Katie Leggett

“Creative Fuel?”

“Milo”

“Objects of Devotion”

Hannah Schulze

“Always Tired”

“Where the Light Comes In”

Chau Tran

“Jimin Magazine”

“Wuthering Heights”

Torrie Weems

“Layers of Self: A Study on Identity”

“My Shadow”

Emily Yokem

“Fantasies”

“Sleepy Fawn”

“Whimsical”

Taylor Youtsey

“Untitled”

“Untitled”

Natalia Zamora

“Colorful Wood Pattern”

“Birds”

“Space Poster”

Honors Theses

Walker Conference Center A

Jonathon Lance, Moderator

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

1:30 Emily Castilaw

How Running Prostheses Have Impacted Running and What the Physical Advantages and Disadvantages are for Amputee Athletes.

1:50 Brock Bivens

The Mathematical and Historical Significance of the Four-Color Theorem

2:10 Kaleigh Thomas

Tree Canopy Cover Influences Habitat Use of Breeding Birds at Jack Mountain Wildlife Management Area

2:30 Noah Smith

4-Week Neuromuscular Training Program on Peak External Back Squat Power in Division II Colligate Athletes

2:50 Addison White

Synthesis of ZnTPP-IL as a Potential Photodynamic Therapy Agent

3:10 Charlie McClain

Synthesizing a Novel Wound Care Fiber Mat and Testing Its Clotting Capabilities

3:30 Isabella Rushing

Why Your Clothes Could be Killing You:
The Detection of BPA in Clothing Using
Fluorescence Spectrophotometry

3:50 Hope Murphy

Developing a Novel Succinct Synthetic
Approach to the Modification of Alginate for
Use in Biomedical Applications

4:10 Kennedy Johnson

Developing ZnTPP-4AB as a Potential
Photodynamic Therapy Agent

4:30 Zach McClain

Degradation Studies on Electrospun
Nanofiber Wound Dressings

4:50 Kaylee Johnson

The Development of a New Water-Soluble
Zinc Porphyrin, ZnTPP-5AP, as a
Photodynamic Therapy Agent

5:10 Gabe Chandler

Cellular Response to Biomimetic Collagen
Analog Scaffolds in Modern Wound
Dressing

Walker Conference Center C

Zoë Graham, Moderator

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

1:30 Erin Russo

Progress Towards Phage Stability for Possible Oral Phage Therapy

1:50 Tuesday Melton

Epigenetic Regulation of the SPARC gene in Bladder Cancer

2:10 McKenzie Chavers

The Evaluation of Multiple Myeloma in Immune Competent and Immune Deficient Mice using a SAC and Herbal Treatments with Genetic Analysis

2:30 Barrett Troup

Characterization of Bacteriophage Infection of *Gordonia* species utilizing an optical density-based approach

2:50 Luke Lawson

An Analysis of Pollution in Liverpool, UK

3:10 Elijah Christenson

Modeling Bacteriophage Infection of Slow-Growing Bacteria in a 96 Well Microplate

- 3:30 Cabb Batson**
Development of Specialty Histological Staining
Methods for Zebrafish
- 3:50 Hannah Matthews**
Developing a Protocol for Bacteriophage
Guided Evolution
- 4:10 William White**
Exploring the Mechanism of Phage Host Range
Adaptation Using the Appleman's Protocol
- 4:30 Mikayla Long**
Quantification of *Gordonia terrae* Bacteriophages
using Lysate qPCR
- 4:50 Duncan Troup**
Peak Aerobic Capacity and Dietary Composition are
Associated with the Bioenergetic Profile of Platelets
in Children
- 5:10 Alexis Perry**
Characterization and Quantification of *Gordonia
terrae* CAG3 Bacteria using qPCR Primers of the
DnaA Gene

Berry-Peoples Bible Building 126

Blake Myers, Moderator

1:30 P.M. - 2:30 P.M.

1:30 Isabella Bejarano

Reducing Barriers to Education Around the World: A Systematic Approach Using the Community School Model as a Framework

1:50 Emma Smith

Under the Sun: Songs from Ecclesiastes

2:10 Katelyn Brown

Apologetics as an Entry Strategy for Missions in Europe

Young Auditorium

Olivia Nethercutt & Brooke Zermatten, Co-Moderators

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

1:30 Hayden Jackson

Lost Story of Frank Jackson

1:50 Abby Burlison

Freesia: How I Wrote My First Short Play

2:10 Brynlee Beams

Immersive Worlds: Applying Scenic Design Techniques in 'Eurydice' by Sarah Ruhl

2:30 Sarah Dean

Writing with Light: Analyzing the Technical and Creative Significance of Light in Photography

2:50 Chase Hartsell

Rex & Root: An Original Documentary

3:10 Julie Phillips

Comparative Analysis of Japan and United States School Lunch Programs

3:30 Emma Kathleen Conner

Assessing the Nutrition Knowledge of Track and Cross Country Athletes

3:50 Anna Hudson

The Science of Reading and the Use of Decodable Texts in the Classroom

4:10 Olivia Hobson

Pediatric Anxiety Disorders and their
Accommodation in the Elementary Classroom

Hickingbotham 200
Cody Pallen - Moderator
1:30 P.M. - 5:10 P.M.

- 1:30 Marlie Moix**
The History of Dog Training and its Importance to Modern Day Training Techniques
- 1:50 Vivian Pryor**
The Trial of Jesus: A Historical Look at the Jewish and Roman Trial Proceedings
- 2:10 Charles Nichols**
Social Isolation- Political Domination
- 2:30 Ella Cox**
The Impact of an Academic Summer Bridge Program for At-Risk College Students
- 2:50 Seth Hunter**
A Scout is Born
- 3:10 Hannah More**
Differences in Mental Health Disorders: The Importance of Mental Health Literacy
- 3:30 Nathan Scolaro**
A Retrospective Analysis of Police and Legal Procedure in the West Memphis Three Murders

- 3:50 Sydney Motl**
Queer Allegory in Angela Carter's "The Bloody Chamber"
- 4:10 Hannah Smith**
On Writing "Three Inches from Death"
- 4:30 Abigale Ralston**
The Survivors
- 4:50 Abigail Powers**
Beauty is in the Eye of the Gazer?: Beauty, Power, and Disability Examined Critically in Jane Eyre and Other Classic Literature

Presentations

Berry-Peoples Bible Building 126

Blake Myers, Moderator

2:30 P.M. - 5:40 P.M.

2:30 Mallorie Carozza

The Trinity in the Old Testament

2:50 Mikayla Cook

The Amazigh People of Morocco: A Brief
Cultural Exegesis of a Country and Its
Hidden Treasure

3:10 Olivia Nethercutt

The Women of Morocco: A Reflection on Mission
Strategy to Reach Hidden Peoples

3:30 Duncan Troup

The Nyāya-Vaiśeṣika Philosophy of
Categories

3:50 Cable Glenn

Judaism: Comic Books

4:10 Isabella Rushing

Buddhist Monasteries

4:30 Noah Embry

The Religious Significance of Ise Grand
Shrine

4:50 Malia Gattis

Architecture and Art of the Ise Shrine

5:10 Breanna Watson

Short-Term Missions and their Ethical Shortcomings

Young Auditorium
Julianne Fletcher, Moderator
4:30 P.M. - 5:40 P.M.

**4:30 Isaac Crow, Bailey Gibson, Daniel McCarty,
Jeff McCoy, Marlie Moix, Joey Whisenhunt**
Eddie and Phyllis Ary Student Investment
Fund

**4:50 Cydni Alexander, Sierra Douglas, Hannah
Haessig, Alexis Hawkins, Tallon Heine, Katie
Henry, Alexandria Hesse, Payton Lee, Makena
Munger, Joseph Osborne - History Research
Panel**
H.O.P.I: History of Peake Integration

5:10 Sierra Douglas
Becoming a God: The Eastern Orthodox
Understanding of Theosis

Clark Seminar Room, Hickingbotham 301

Dr. Jerusa Carvajal, Moderator

1:30 P.M. - 4:30 P.M.

1:30 Emma Mackey

Liberating the Woman: Feminism in Korean Dramas

**1:50 Brandon Avila, Izzi Breaux, Macie Cash,
Kinley Deaton, Rachel Del Angel, Clayton
Fitzpatrick, Alfonso Gonzalez Gómez, Avery
Jauz, Emma Mackey, Mikey Quiñones, Ashlyn
Seibert, Jacie Sellars**

Lectura de Poema. La Experiencia del Imigrante/
Immigrant Experience.

**3:30 Jaycie Anderson, Sara Faddis, Reagann Harper,
Mia Kirby, Camryn Stroupe, Jeremiah Webb**
Las Fábulas de Esopo Modernizadas

McClellan Hall 204

Mikayla Cook and Hannah Newcomb, Co-Moderators

1:30 P.M. - 4:10 P.M.

1:30 Sydney Motl

Symposium on the Festival of Faith and Writing

1:50 Caroline Cole

Accelerating Tissue Regeneration with
Protein-Loaded Fiber Mats

2:10 Joseph Stroupe

The Genetic Diversity of *Warea*
amplexifolia

2:30 Josie White

Developing and Optimizing a Degradable
Collagen Mimic for Modern Wound
Dressings

2:50 Maryann Rettig

The Mental Health and Developmental
Effects of Bisphenol-A

3:10 Anna Claire

Using OncoDB's Oncovirus Analysis for
HBV-related HCC

3:30 Josie White

Sheldon Cooper's Unique Prime Number

3:50 Kalel Langford

The Game Behind the Game

Acknowledgements

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The Faculty Honors Council

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Notes
