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Scholars Day

Carl Goodson Honors Program

4-24-2023

Scholars Day 2023 Program of Events

Carl Goodson Honors Program

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SCHOLARS DAY

2023

PROGRAM OF EVENTS

SCHOLARS DAY

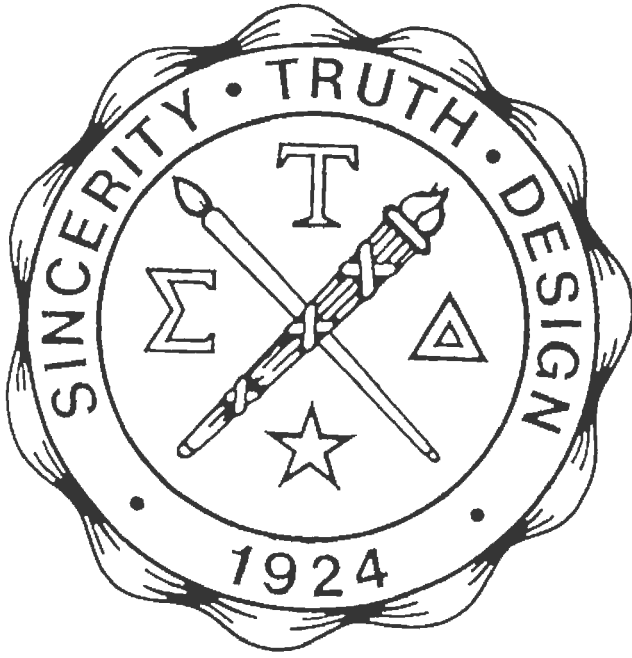
April 26, 2023



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!

Table of Contents

Alpha Chi Inductions.....	4
Poster Presentations.....	5
Group 1.....	5
Group 2.....	10
Music Recital.....	14
Art Exhibitions.....	16
Honors Theses.....	19
Walker Conference Center A.....	19
Walker Conference Center C.....	21
Berry-Peebles Bible Building 126.....	23
Young Auditorium.....	25
McClellan Hall 100.....	26
Presentations.....	27
Young Auditorium.....	27
Hickingbotham 200.....	29
Clark Seminar Room, Hickingbotham 301.....	31
McClellan Hall 206.....	32
McClellan Hall 100.....	32
McClellan Hall 205.....	34
Acknowledgements.....	36
Notes.....	38

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

Parker Nelson, Host

1:45-3:00

- 1. Erica Stilwell, Taylor Moran & Chris Couch**
Core Activation Through the Measurement of
Traditional vs. Non-Traditional Core Exercises
- 2. Hope Pennington & Michele Snow**
The Aftermath of Concussions in Athletes
- 3. Franco Zuniga, Samantha King & Eden Vaden**
A Two-Nurse Verification Process to Reduce Heparin
Administration Errors
- 4. Christian Carney, Landon Hill, Emily Watson &
Paloma Moreno**
The Effects of Acupressure on
Chemotherapy-Induced Nausea and Vomiting
- 5. Morgan Darr, Isabelle Holeyfield, Hagan Sanchez
& Mary Beth Wedgeworth**
The Evaluation of Sleep Deprivation on
Medication Errors Made by Nurses

- 6. Emma McCorkle, Matthew Kulbeth & Lydia Serviss**
Artificially Sweetened Beverages and the Role They Play in Increasing Incidence Rates of Metabolic Syndrome within the Type-Two Diabetic Community
- 7. Jenna Rogers, Fernanda Valencia & Hayli Davis**
Nausea Control Using Cannabis vs. Pharmacological Interventions while Undergoing Chemotherapy
- 8. Karlee Sutterfield, Jacob Holt & Jasmine Riley**
The Effect of Nurse-to-Patient Ratio on Medication Errors
- 9. Kaleigh Thomas, Brooklyn Hester, Jana Milam & Noah Barker**
The Effects of Music Therapy on the Aggressive Behaviors of Long-term Care Residents with Alzheimer's Disease
- 10. Lauren Venditto, Luke Mueller, Ryan Barnett & Allie Sample**
The Effect of Nurse Overtime on Patient Mortality Due to Myocardial Infarction in the Emergency Department
- 11. Malley Wallace, Alyssa Beggs, Kayla Steinmeyer & Sydni Perry**
In Children, What is the Effect of Toy-Mediated Distraction on Decreasing Distress With Needles?

- 12. Brooklyn Baker**
Sensory Evaluation of Different Types of Flours in Fruit Cake
- 13. Emma Kathleen Conner & Sophia Talley**
Thoughts, Behaviors, and Beliefs About Food and Body Image Among College Freshmen
- 14. Lauren Fowler & Michelle Byers**
Assessment of College Student's Nutritional Knowledge of HerbaLife Prior to Consumption of Supplements
- 15. Lauren Fowler**
Assessment of Nutrition Status of Adults Using the Nutrition-Focused Physical Examination
- 16. Trent Reeder**
Sensory Evaluation of Banana Bread Using Egg Substitutes
- 17. Hannah Garner & Trent Reeder**
Assessment of Knowledge on Eating Disorders Among Faculty and Staff at Ouachita Baptist University
- 18. Hannah Garner**
Sensory Evaluation of Sugar Cookies Using Sugar Substitutes

- 19. Julie Phillips & Emma Starkman**
Assessment of Undergraduate Students
Knowledge and Consumption of Electrolytes
and Hydration
- 20. Emma Starkman**
Sensory Evaluation of Sugar Substitutes in
Peanut Butter Cookies
- 21. Merina Ray**
Sensory Evaluation of Strawberry Cake
Prepared with Different Sugar Substitutes
- 22. Andy Selph**
Sensory Evaluation of Fat Alternatives in
Chocolate Chip Cookies
- 23. Erica Gaddie, Cannon Fisher & Riley Griffin**
The Correlation between Team Environmental
Factors and the Prevalence of Eating Disorders
among Collegiate Athletes at Ouachita Baptist
University
- 24. Karrington Gordon, Natalie Keen Atkins & Shelby
Roberts**
The Correlation between Caffeine Intake and
Sleeping Habits of Undergraduate College
Students
- 25. Anna Polo**
Nutrition Knowledge of Young Adults: How
has K-12 Education Affected the Health of
Young Adults in 2023

- 26. Drew Webb**
Effects of a Nutrition/Physical Education Program on Children's BMI

- 27. Brittney Burford, Allyson Melton & Robert Otero**
University Students' Understanding of the Endocannabinoid System and its Relevance to Nutrition

- 28. Ashley Peters & Paige Chelette**
Nutritional Knowledge of Hydration Among Undergraduate Students at Ouachita Baptist University

Group 2
Walker Conference Center B
Riley Braziel, Host
3:15-4:30

1. **Emily Stover**
Trust in Celebrities
2. **Vivian Pryor**
Factors Contributing to Abortion Rates in States
3. **Emily Horn**
Gender vs Biblical Beliefs
4. **Katie Minton**
Religious Beliefs on Campus
5. **Sara Holman, Ainsley Rottinghaus, Hanna Williams & Jenna McGraw**
Beauty is in the Eye of the Beholder: Studying the Relationship Between Facial Symmetry and Attractiveness
6. **Conner Jacobs, Cody Pallen & Savannah Spradlin**
How Others Perceive Personality Traits Through the Clothing you Wear
7. **Zoe McGregor, Tyler Parker, Shelby Cheek & Joseph Stroupe**
How Different Emotions Affect One's Creative Thinking

8. **Anna Newman, Reyna Rogers & Keila Ramirez**
Levels of Conformity in First-Year and Fourth-Year Students
9. **Alex Savage & Sydney Ellason**
Bones behind Jones: Exploring the Correlations between Individuals' Spiritual Beliefs and Paranormal Experiences
10. **Emily Shipman, Madison Atchley & Hannah More**
Biases in Personality Test Results
11. **Kendall Wilson, Naturi Harris, Trinity Tyre & Kirsten Lu**
The Effect of Speaker Accents on Memory Retention
12. **Seth Curl, Reese Chesshir, Drew Goode & Kennedy Stringfellow**
The Effects of Various Exercise Methods on Memory Recall
13. **Sydney Delgado**
The Effects of Light Intensity on Oxygen Production of *Arthrospira plantensis*
14. **Makayla Miller**
Growth and Production of *Spirulina plantensis* Biomass at the Same Light Intensity and Temperature

- 15. Cole Turner & Sophia Ward**
The Effects of Hypogravity and Light Intensity on the Movement of *D. discoideum*
- 16. Sophia Ward & Cole Turner**
The Effects of Light Intensity on Cell Population and Oxygen Production of *Arthrospira platensis*
- 17. Emmy Hipps**
Investigating Three novel Porphyrins for the Possible Treatment for Lung Cancer Using Red and White Light
- 18. Kennedy Johnson**
The Examination of ZnTPP-4AB as a Potential Photodynamic Therapy Agent
- 19. Kaylee Johnson**
The Development of Photodynamic Therapy Using a New Water-Soluble Zinc Porphyrin ZnTPP-5AP
- 20. Kyla Williams & Rafael Bustillo**
Watermelon Sweetness Prediction Based on Sound Waves
- 21. Mason Martin**
Determining the Host Range of Bacteriophages with Four Different *Gordonia* Bacteria Hosts

- 22. Noah Pruitt**
Host-Phage Interactions in *Gordonia*
Bacteriophage
- 23. Addison White**
The Chemistry of Curly Hair
- 24. Mikayla Long**
Comparing COVID-19 Effects in Bolivia,
Ethiopia, and the United States
- 25. Carsten Johnson**
Optimizing a Passive Tracking Solar Panel
System
- 26. Luke Jeffus & Caden Pulliam**
A survey of Mammals at Jack Mountain
Wildlife Management Area using Game
Cameras
- 27. Caden Pulliam & Luke Jeffus**
Assessing Patterns of Habitat use by Breeding
Birds at Jack Mountain Wildlife Management
Area
- 28. Brock Bivens**
Fostering Geometric Thinking

Music Recital

McBeth Recital Hall
2:00 P.M.

Music Program

Piano Concert in D Major, Hob. XVIII No. 11

I. Vivace

Joseph Haydn

Andrew Pierce, Piano
Dr. Mary Chung, Piano

Promise Me This from *The Theory of Relativity*

Neil Bartram

Genevieve Cooper, Mezzo-soprano
Susan Monroe, Piano

The Old Red Hills of Home from *Parade*

Jason Robert Brown

Eli Butler, Tenor
Kristen La Madrid, Piano

Bagatelle, Op.33, No.1

Ludwig van Beethoven

Jenna Barnes, Piano

Suite from the Victorian Kitchen Garden

Paul Reade

- I. Prelude**
- II. Spring**
- V. Summer**

Lane Dunman, Clarinet
Kristen La Madrid, Piano

O, divine Redeemer!

Charles Gounod

Jon Shelby, Tenor
Susan Monroe, Piano

Seit ich ihn gesehen from *Frauenliebe und leben*

Robert Schumann

Veronica West, Mezzo-soprano
Kristen La Madrid, Piano

Ballade for Flute and Piano

Frank Martin

Destiny Diaz, Flute
Kristen La Madrid, Piano

Una Donna a quindici anni from *Così fan tutte*

W. A. Mozart

Kyleigh Stevens, Soprano
Kristen La Madrid, Piano

Art Exhibitions

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

Senior Exhibitions

Daisy Bright

“Anon’s Village”

Hanna Craig

“Being and Not Being”

Sabaoot Esho

“بابتهاج - Joyfully”

Hannah George

“Time Makes You Bolder”

**2023 Student Juried Art Show Reception
and Award Ceremony**
Hammons Gallery, Mabee Fine Arts
Sponsored by the OBU Art Club
4:30 P.M.

Juried by Anne Greenwood

Victoria Blum

“Balance”

Jozie Burson

“Armored Ensemble”

Jubilee Collins

“Paper Cut Self Portrait”

“X-Ray”

Hannah Craig

“Pick one!”

Sabaoot Esho

“Kelsey”

“The Covid Doctor”

“Arabic Ligatures”

Ashlyn Holt

“Finite Beauty” (Series)

Isabel King

“Captured Time”

Jill Parsons

“Versace”

Maegan Royster

“Waves”

“Mess”

Alyssa Strauss

“A Quiet Morning”

“Untitled”

“Quiet”

Chau Tran

“Kang Sae-byeok”

Mallorie Warner

“Bridge to Terabithia”

Torrie Weems

“Eclipse”

Olivia Whitehead

“Caught In The Motions”

Sydney Windorf

“Cow Skull”

“Window”

Honors Theses

Walker Conference Center A

Alex Browning & Joseph Osborne, Co-Moderators

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

- 1:30 Emily Greenwell**
The Good Virus: Phages as the Future of Medicine
- 1:50 Kallen Smith**
Scanning *G. rubripertincta* Bacteriophages
for Host Range Expansion
- 2:10 Abbigale Sullins**
Zebrafish Feeding and Breeding – Adapting Best
Practices for Zebrafish Husbandry
- 2:30 Ben George**
Multi-proxy Analysis of Charcoal and Testate
Amoebae in Peatland
- 2:50 Grace Tidwell**
Bird Diversity and Abundance in Relation to
Habitat Complexity at Jack Mountain
Wildlife Management Area
- 3:30 Alex Moore**
Fearsome Critters and Where to Find Them:
A Study of North American Folktale
- 3:50 Andy Strauss**
Mountains in the Deep: My Thoughts on
Writing a Young Adult's Fantasy Novel

4:10 Faith Lymburner

Are We Good or Bad or Somewhere In
Between: Original Novel

4:30 Emma Firestone

Writing for Writing's Sake: An Exploration
into the Process and Value of Creative
Writing

4:50 Caroline Derby

The Changing Role of Women in Journalism

5:10 Lauren Bridgeman

Love, Austen, and Lewis: How the
Successful and Unsuccessful Romances in
Jane Austen's Novels Correspond to C.S.
Lewis's The Four Loves

Walker Conference Center C
Whit Lawrence & Kaylee Mitchell, Co-Moderators
1:30 P.M. - 5:30 P.M.

- 1:30 Aidan Doss**
An Investigation into Autophagy in
Methionine-Restricted Cancer Cells
- 1:50 Joshua Spiva**
Incorporating Bioengineered Proteins into Wound
Dressings to Create a More Synergistic
Environment
- 2:10 Andrew Tarlton**
Modern Wound Dressings Applied to the
Medical Mission Field
- 2:30 Madison Easley**
Monitoring BPA Leaching from Feminine Hygiene
Products using Fluorescence Spectrophotometry
- 2:50 Piper Fain**
When Mental Health Becomes Physical
- 3:10 Austin Crook**
BLACKLIGHT
- 3:30 Kelsi Coleman**
History, Methods, and Psychology of
Illustrations in Children's Literature

- 3:50 Sara Hulse**
The Medicine that May Save Your Life
- 4:10 Hannah Hickman**
Educational Opportunities for the Aspiring Aquatic Professional: A Qualitative Analysis of Experience-Based Building Blocks for Success
- 4:30 Jolie Crane**
English Language Learners in the General Education Classroom
- 4:50 Graca Webster**
Putting the Fun in Foreign Language: Defining Leisure Language Learning and the Implications for Foreign Language Educators
- 5:10 Vanessa Vives**
Fostering Language Development and Literacy in Children from Birth to Two Years Old

Berry-Peoples Bible Building 126

Camryn Manning, Moderator

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

1:30 Natalie Helms

Reasons For Stigma Surrounding Emotional Support Animals and How it Can Be Addressed

1:50 Izzy Baughn

Female Electoral Success with Emphasis on the Incumbency Advantage, Fundraising Efforts, Recruitment Methods, Policy Influence, and Partisan Effect

2:10 Noah Sanders

What We Do for Each Other: Assessing the Education Disparity in Arkansas Education

2:30 Saboot Esho

Alif: Building a Bridge

2:50 Jillian Parsons

How to Turn into a Butterfly

3:10 Isabella Owen

I Don't Have a Clue: A First-Time Director's Guide by a First-Time Director

3:30 Hannah Tullos

Keeping the Heart: Contemporizing the Parables of Jesus

- 3:50 Ashton Hurst**
An Investigation into the New Testament
Understanding of Israel
- 4:10 Bella Blankenship**
The Beliefs of the Oldest Fraternity
- 4:30 Benjamin Highsmith**
How Properly Contextualized Christianity
Could Benefit Japan
- 4:50 Hannah Rossell**
Short-Term Missions: Helping or Hurting?
- 5:10 Mason Campbell**
Paul and Seneca on the Immanence of God:
Stoicism and Christianity Compared

Young Auditorium

Glenna Ratcliff & Julianne Fletcher, Co-Moderators

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

1:30 Reese Chesshir

The Effects of Light Wavelength and Gravity on
Physarum polycephalum Growth

1:50 Taylor Barnhart

The Effects of Light Intensity and Cell
Structure on the Cultivation of *Arthrospira*
platensis

2:10 Abigail Roberts

Effects of Red Light Intensity on
Cultivation & Oxygen Production of
Arthrospira platensis

2:30 Seth Curl

Crosstalk between Vitamin D Receptor Signaling
and Glucocorticoids in Musculoskeletal-Induced
Atrophy

2:50 Baker Kendrick

Retinoids and their Clinical Benefits to
Treating Cutaneous T-Cell Lymphoma

3:10 Jacob Bowman

Money and the Diamond

3:30 Jessica Johnson

The K-Wave and Its Impact on the South
Korean Economy

3:50 Morris Tsuma

From Village to Entrepreneurial Mentality: A Transformative Path for Africa's Economic Development

McClellan Hall 100

Sierra Douglas and Olivia Nethercutt, Co-Moderators

4:30 P.M. - 5:30 P.M.

4:30 Maria Urbina

The Stigmatization of Eating Disorders: The South vs The World

4:50 Emma Starkman

“Aunt Patti’s Good Cooking’s (An Anti-inflammatory Cookbook and Guide)”

5:10 Courtney Myers

Increasing Exclusive Breastfeeding: Baby-Friendly Initiatives

Presentations

Young Auditorium

Julianne Fletcher, Moderator

4:10 P.M. - 5:40 P.M.

4:10 Ella Cox, Allie Bailey, Alex Moore & Emily Pease

Final Scenes: How Dystopian Cinema Augments
Activism or Reinforces Despair

OBU at Sundance Reflection Symposium

4:30 P.M. - 5:00 P.M.

Jake Greenwich

My Sundance Experience

Abigail Gaddis

A Reflection on Sundance

Delaney Crane

Sundance

Julie Ann Zimmerman & Jay Brumsey

A Journey Down Memory Lane at Sundance

Andy Strauss

Family Within Film

Intermission - 10 Minutes

OBU at Sundance Film Analysis Symposium

5:10 P.M. - 5:40 P.M.

Brendan Watson

A Conflict Heard in Silence: *CODA*

Emma Mackey

Reconciling Worlds

Hannah Smith

CODA: A Look at Both Sides of Deaf and Hearing
Experiences With Music

Hickingbotham 200

Georgia Richards & Ashleigh Estes, Co-Moderators

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

- 1:30** **Wes Guerra, Nati Abeje, Colton Schrader, Emilio Garcia, Jacob Smith, Connor Bjerke, Jacob Bowman, Jessica Johnson, Madi Draper, Rebekah Chandler, Heather Brown & David Stankovic**
Eddie and Phyllis Ary Student Investment Fund
- 2:10** **Juli Parsons**
Business Ethics Case Study: Time Warner Cable
- 2:50** **Noah Smith**
Exercise and Cancer Survivorship
- 3:10** **Emma Bynum**
The Impact of an Academic Summer Bridge Program for At-Risk College Students
- 3:30** **Piper Fain**
Intervertebral Disc Disease in Small Dog Breeds
- 3:50** **Alexis Perry**
Organic Chemistry CURE-Based Lab-Sulfonamide Drug Synthesis
- 4:10** **Alexis Perry**
A Public Health Analysis of Pediatric Asthma in Clark County

4:30 Rebekah Wendt

Synthesis of a Novel Wound-Healing
Material using Core-Shell Nanofibers
Infused with AMD3100 and Tacrolimus

4:50 Josie White

Developing and Optimizing a Degradable
Collagen Mimic for Modern Wound Dressings

5:10 Hope Murphy

Developing A New Approach to Modifying
Alginate For Use in Biomedical Applications

Clark Seminar Room, Hickingbotham 301
Original Spanish Story Roundtable Reading
Dr. Jerusa Carvajal, Moderator
1:30 P.M. - 4:30 P.M.

Izzi Breaux

“Comenzó en un autobús escolar”

Macie Cash

“Amor complicado”

Kinley Deaton

“La mujer con velo”

Pietra Gois

“La muerte no pide permiso”

Rey Reyes

“¿Papa?”

Jack Webb

“¿Por qué continúas?”

Graca Webster

“Pascualina del bosque”

McClellan Hall 206

Sierra Douglas & Olivia Nethercutt, Co-Moderators

1:30 P.M. - 2:10 P.M.

1:30 Olivia Nethercutt

From Buffaloes to Badgers: How African Americans Endured Integration in Arkadelphia Schools

1:50 Hannah Smith

Mitchell's Rest Cure in "The Yellow Wallpaper"

McClellan Hall 100

Sierra Douglas & Olivia Nethercutt, Co-Moderators

2:10 P.M. - 4:30 P.M.

2:10 Sierra Douglas

The Replacement Cross

2:30 Nathan Scolaro

De Oratore Exemplified in Speech

**2:50 Sierra Douglas, Olivia Nethercutt, Isaac Lawson,
Katie Leggett & Jamie Mayo**

Panel Discussion: The Search for Humanity after Atrocity Conference Experience

3:30 **Natalie Moore, Chloe Jamora, Emma Dennis,
Makena Munger & Isaac Lawson**
Preserving Your Family Treasures

3:50 **Addie Robertson**
Exogenous Factors in Cancer Mortality at the
State Level

4:10 **Tuesday Melton**
Epigenetic Regulation of the SPARC gene in
Bladder Cancer

McClellan Hall 205

Seth Hunter & Reece Gray, Co-Moderators

1:30-4:30

1:30 Juli Parsons

Why Baking is Good For Your Mental and Emotional Health

1:50 Logan Robertson, Chloe Jetton, Luke Lancaster, Emily Stover & Seth Curl

Improved Education for Students with Intellectual Disabilities through Teacher Training Programs

2:10 Karigan Clay, AubrieKate Moseley, Allie Bailey & Ainsley Rottinghaus

Harvesting a Disability-Friendly Campus

2:30 Alex Delgado, Sydney Ellason, Audrey Gallagher & Lacy Ornelas

Integrating Individuals with Intellectual and Developmental Disabilities Through Transitional Programs on a College Campus

2:50 Zoe McGregor, Mea Heard, Olivia Eggleston & Kelby Cansler

Encouraging Social Inclusion in Children with and without Disabilities using Interactive Activities

3:10 Michal Felan, Natalie Helms, Victoria Sprague & Noel Elrod

Flexible Seating at Ouachita Baptist University

3:30 Bailey Martin, Maggie George, Hailey Coulson & Chloe Schnaitman

Sensory Safe Rooms on Ouachita's Campus

3:50 Holly Hatcher

Purim: Origins, Traditions, and Meaning

4:10 Isabella Bejarano

Outcastes: Experiencing Religion and Spirituality outside of Varna and Caste

Acknowledgements

The Carl Goodson Honors Program appreciates the following people for contributing their time, talent, and resources to Scholars Day 2023:

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The Faculty Honors Council

The Alpha Tau Honors Society Leadership and
Volunteers

Notes
