



**ASPIRE**

*A Celebration*

*of the*

**ARTS, SCHOLARSHIP, PERFORMANCE,  
INNOVATION & RESEARCH EXCELLENCE**

*Saturday, April 29 - Tuesday, May 9*

**BRIDGEWATER COLLEGE**

Bridgewater, Virginia

# Letter from the President

April 2017

Welcome to Bridgewater College's annual ASPIRE Program, a week-long celebration of student and faculty scholarship, creativity and artistic excellence! As you can see from the schedule of exhibitions, presentations and performances, our students and faculty are engaged in scholarly work across the disciplines. And ASPIRE is our way of showcasing and celebrating all of this activity.

Commitment to the liberal arts at Bridgewater College means more than just a diverse curriculum. It means a commitment to the very best in the teacher-scholar model for our faculty, who maintain their excellence in the classroom by continuing to engage their disciplines in scholarly work outside of the classroom. And they model this intellectual curiosity for students: as mentors and colleagues our faculty invite students to engage in that work, and this results in the exceptional quality and diversity of activity on display this week.

There exists a depth and breadth of engagement with research, creative endeavors and scholarly work here at Bridgewater that will continue to blossom. I hope you are able to participate in many of this week's activities, and celebrate the accomplishments of our students and faculty on display all around us!



Sincerely,

David W. Bushman, Ph.D.  
President

# Schedule Overview

## Saturday, April 29

4 p.m..... McKinney 100..... The Showker Prize Reveal

## Sunday, April 30

3 p.m..... Cole Hall..... Symphonic Band Concert\*

## Monday, May 1

3:30 p.m..... McKinney 126..... Digital Scholarship Faculty Panel Discussion

## Tuesday, May 2

9:30 a.m..... Stone Chapel..... Communication Student Panel Discussion\*

9:30 a.m..... Boitnott Room ..... Cultural Studies Student Panel Discussion\*

9:30 a.m..... McKinney 223..... History Student/Faculty Panel Discussion\*

9:30 a.m..... Cole Hall..... Alpha Chi Student Research Presentations\*

## Wednesday, May 3

5:30-6:30 p.m..... Nininger Hall ..... Student & Faculty Poster Presentations\*

## Thursday, May 4

9:30 a.m..... Cole Hall..... Alpha Chi Student Research Presentations\*

9:30 a.m..... Boitnott Room ..... Biochemistry Student Panel Discussion\*

9:30 a.m..... McKinney 223..... Family and Consumer Sciences Panel Discussion\*

## Friday, May 5

1 p.m..... Cole Hall..... Alpha Chi Student Research Presentations

2 p.m..... Boitnott Room ..... Faculty Research Presentations\*

7:30 p.m..... Carter Center..... Choral Concert\*

## Saturday, May 6

3 p.m..... Cole Hall..... Jazz Ensemble Concert\*

## Monday, May 8

5-8 p.m. .... Various Locations ..... Senior Art Thesis Exhibition Opening\*

## Tuesday, May 9

7-10 p.m. .... Boitnott Room ..... Artists' Talks

# Schedule

Saturday, April 29

› **THE SHOWKER PRIZE REVEAL | 4 P.M., MCKINNEY 100**

**CACTUS  
REBELLION**

Kathleen Springer,  
*Team Leader*  
Leah Aclin  
Abigail Manry  
Timothy Gacquin  
Katherine Weeks

**NKA**

Emily Morris,  
*Team Leader*  
Florencio Gomez  
Allison Henry  
Khaled Jarwan  
Elizabeth Robinson

**THE RESISTANCE**

Emily Forbes,  
*Team Leader*  
Kaylie Bowen  
Tiffany Colberg  
Angela Harner  
Cheyenne Mitchell

**THE STIGMA  
ENDS NOW**

Dylan Shannon,  
*Team Leader*  
Melanie Hux  
Luke Morgan  
Alicia Pritchett  
Sabrina Volponi

**UNBENDABLE  
RAIN**

Kelsey Hecker,  
*Team Leader*  
Sean Alberts  
Trevor Bostic  
Dale Ervin  
Charles German  
Jeremy Gingrich  
Thomas Hohnke  
Simon Sawyer  
Matt Wampler

Sunday, April 30

**SYMPHONIC BAND CONCERT  
3 P.M., COLE HALL**

*Heaven on Earth*

*Dr. Christine Carrillo, director*

Monday, May 1

› **DIGITAL SCHOLARSHIP FACULTY PANEL DISCUSSION | 3:30 P.M., MCKINNEY 126**

DIGITAL SCHOLARSHIP @ BC\*

**Moderators:** *Emily Goodwin, Cori Strickler*

**Presenters:** Dr. Jennie Carr, Dr. Martin Kalb, Dr. Chris Versen, Dr. Jason Ybarra

Tuesday, May 2

› **COMMUNICATION STUDENT PANEL DISCUSSION | 9:30 A.M., STONE CHAPEL**

DIGITAL SCHOLARSHIP: EXPANDING THE COLLEGE EDUCATION\*

**Moderator:** *Michaela Bragg; Faculty Advisor: Ady Dewey*

**Presenters:** Michaela Bragg, Kristen Lambert, Jack Marcum, Camila Rico, Joseph Walsh

## Tuesday, May 2

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### › CULTURAL STUDIES STUDENT PANEL DISCUSSION | 9:30 A.M., BOITNOTT ROOM

PUBLIC CULTURE CAMPUS DIALOGUES (SPONSORED BY THE CULTURAL STUDIES MINOR)

**Moderator:** Dr. David Reznik; **Faculty Advisor:** Dr. David Reznik

Presenters: Ashley Clark, Callie Coleman, Samantha Lebling, Erin Magnino, Clara Metzler, Meredith Morgan, Torry Piper, London Worrell

### › HISTORY STUDENT/FACULTY PANEL DISCUSSION | 9:30 A.M., MCKINNEY 223

DOING PUBLIC AND DIGITAL HISTORY AT BRIDGEWATER COLLEGE\*

**Moderators:** Dr. Martin Kalb and Dr. Chris Versen; **Faculty Advisor:** Dr. Martin Kalb

Presenters: Dr. Martin Kalb, Charlotte McIntyre, Samantha Savage, Emily Thomas, Dr. Chris Versen

### › ALPHA CHI RESEARCH PRESENTATIONS | 9:30 A.M., COLE HALL

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Rachel Kreiger	Use of Differential Proteomics to Study Limb Regeneration in Axolotl Salamanders <sup>‡</sup>	Biology	Dr. Moshe Khurgel
Stephen Hoyle	Black, White, and Grey: Morality in J.R.R. Tolkien's Legendarium <sup>†</sup>	English	Dr. Christian Sheridan
Matthew Wampler	Adinkras: A Graph Theoretic Tool for Off-Shell Supersymmetry <sup>§</sup>	Physics & Mathematics	Dr. Deva O'Neil & Dr. Arnold Yim
Hunter Layman	Applying Symmetries to Particle Decays <sup>‡</sup>	Physics	Dr. Deva O'Neil

## Wednesday, May 3

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### › STUDENT & FACULTY POSTER PRESENTATIONS | 5:30-6:30 P.M., NININGER HALL

<i>Presenter(s)</i>	<i>Title</i>	<i>Faculty Mentor</i>
Michelle Alty	Spectroscopic Study of Low Mass Members of NGC 2244 <sup>‡</sup>	Dr. Jason Ybarra
Kimberly Beachy	Effects of Nontherapeutic Exercise on Individuals with Cerebral Palsy <sup>†</sup>	Prof. Carmen Moyer
Hallie Blevins	Synthesis of Symmetric and Asymmetric Porphyrins	Dr. Ellen Mitchell
Trevor Bostic	Computer Simulator <sup>†</sup>	Dr. Eric McGregor
Charles Booth & Stephanie Rubino	Response of the Longnose Dace ( <i>Rhinichthys cataractae</i> ) to Video Stimulus*	Dr. Kimberly Bolyard
Dr. Kimberly J. Bolyard	Incorporating Digital Tools into Ecology Research*	
Ariana Brice	Adolescent Oxycondone Exposure's Impact on Drug Sensitivity in Adulthood <sup>†</sup>	Dr. Brian Kelley
Claudia Campos	Student Teaching Experiences on Documenting Students' Learning Progress	Dr. Jennie Carr

\*Part of Digital Scholarship Working Group    ‡Project received a grant from the Martin Science Research Institute Award

§Project received a grant from The Research Experience @ Bridgewater    †Part of an honors project

# Schedule

## POSTER SESSIONS CONTINUED

<i>Presenter(s)</i>	<i>Title</i>	<i>Faculty Mentor</i>
Dr. Jennie M. Carr & Dr. Karen S. Rogers	Rethinking Your Device: Tech Tools to Improve Engagement and Understanding	
Jenna Chappell, Mason Zeplo & Anne Barkett	Simulated Climate Change on <i>Lasius Niger</i> Activity*	Dr. Kimberly Bolyard
Darin Council	Celebrity Recognition in Advertisements	Dr. Michele Strano
Naseer DeMoss, Sarah Morales, Brady Shaper, Maalik Howard, & Jessie Zarudzki	Bus 422X: Boys & Girls Club	Dr. Maria Lugo
Skylar Elliot-Honig, K'Leigh Williams, Nick Strider & Mike Fairley	Still Meadow Enrichment Center and Camp	Dr. Maria Lugo
Abigail Ferson	The Effects of Land Use on Grazing Macroinvertebrates*	Dr. Kimberly Bolyard
Karie Forbes	Dash and Dot: Coding in an Elementary School*	Dr. Jennie Carr
Garrett George	Solid Phase Extraction of Herbicides from Groundwater and Soils	Dr. Ken Overway
Laura Gretz, Michelle Alty, Maxwell Cardillo & Daniel Stahl	Adding Social Network Analysis Features to YAGL	Dr. Eric McGregor
Chris Griffith, Jeff Cash, Logan Nelson & Jason Monroe & Sam Rexrode	StoneHill Construction	Dr. Maria Lugo
Molly Hinkle	Effect of Animal Appeals in Product Advertising	Dr. Michele Strano
Kara Jones	The Role of Starvation and Cellular Differentiation in Polyhydroxybutyrate Depolymerase Synthesis in <i>Streptomyces</i> sp. 5A <sup>†</sup>	Dr. Stephen Baron
Dr. Ian J. McNeil	Characterization of Tris(2,2'-bipyrazine)ruthenium(II) Sensitized Photoanodes	
Meredith Morgan & Megan Ford	Effects of OxyContin on Adolescent and Adult Reward, Mood, and Motor Control <sup>§</sup>	Dr. Brian Kelley
Quinn Morgan	Determining Regression Equation Using Biomass and Nutritional Analysis of Browseable Foliage in Allegheny National Forrest	Dr. Tamara Johnstone-Yellin
Catlin Mullenax, Tim Bedell & Johnny LaVoie	FairField Center Marketing Plan	Dr. Maria Lugo
Isaac Noffsinger	Continued Synthesis of Asymmetric Porphyrin Complexes	Dr. Ellen Mitchell
Hayley Norville, Samantha Van Winter, Chris Voorhees, Matthew Royer & Daniel Breedlove	Valley Business Keynote Marketing Plan	Dr. Maria Lugo
Chandler Parker	Role of IL-3 in Immune Responses to <i>Plasmodium Berghei</i> in a Murine Model of Malaria <sup>§</sup>	Dr. Tracy Deem
Dr. Robyn A. Puffenbarger	Using Learning Gains to Drive Pedagogy	
Michelle Reed	Identification of Mutations in the Polyhydroxybutyrate Depolymerase Gene of Bald Mutants of <i>Streptomyces</i> sp. 5A.	Dr. Stephen Baron

## POSTER SESSIONS CONTINUED

<i>Presenter(s)</i>	<i>Title</i>	<i>Faculty Mentor</i>
Emily Reed	Emotional Appeals in Public Service Announcements	Dr. Michele Strano
Sydney Richardson	Contact's Effects on Racial Attitudes	Dr. Timothy Brazil
Stephanie Rubino	Alternatives to Domestication of the Asian Elephant (Elephas maximus)	Dr. Tamara Johnstone-Yellin
Katelyn Senger	The Development of Auditory Responsiveness in Bobwhite Quail Embryos	Dr. Hunter Honeycutt
Michelle Spencer	Modulation of Hoffmann Reflex in Patients with Chronic Ankle Instability <sup>§</sup>	Dr. Robert Hammill
Kayla Strothers, Miriam Iglesias, Corey Portell, James Georgeoff & Scott Tucker	Entrepreneurship: The Cracked Pillar	Dr. Maria Lugo
Max Stockdon	The Effect of Sexualized Advertisements on Fast Food Consumerism	Dr. Michele Strano
Carleigh Studtmann	Extraction of Protoporphyrin IX for Use in Dye-Sensitized Solar Cells	Dr. Ken Overway
Darean Talmadge	Influence of Gender on the Relationship between Perceptions of Academic Dishonesty and Crime Severity <sup>†</sup>	Dr. Benjamin Albers
Jada Tolliver	The Effect of Long Time Preservation on Acorn Nutritional Value	Dr. Tamara Johnstone-Yellin
Matthew Wampler	(g,k) Reverse Multiples <sup>§</sup>	Dr. Verne Leininger
Lauren Woody	Advertisement and Women	Dr. Michele Strano

## Thursday, May 4

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### › ALPHA CHI RESEARCH PRESENTATIONS | 9:30 A.M., COLE HALL

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Kaleigh Mullins	Clinical Case Report: Paget-Schroetter Syndrome in a Collegiate Male Basketball Player	Athletic Training	Dr. Charles Hale
Charlotte McIntyre <sup>†</sup>	First in Our Hearts: Rediscovering American Heritage and History through the George Washington Bicentennial Celebration of 1932	History	Dr. Christopher Versen
Anh Hai Nguyen	Gender Norms as Obstacles for the Prevention of Male Victimization in Sexual Assaults	Global Studies	Dr. Jamie Frueh
Clara Metzler	Measures of Cultural Capital Applied to Food Choice Behaviors, Food Choice Motivation Factors, and Attitudes Towards Organic and Genetically-Modified Foods	Sociology	Dr. Timothy Brazil
John Moran	YAGL, a Javascript Library	Computer Science	Dr. Eric McGregor

\*Part of Digital Scholarship Working Group    †Project received a grant from the Martin Science Research Institute Award

§Project received a grant from The Research Experience @ Bridgewater    †Part of an honors project

# Schedule

## Thursday, May 4

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### › BIOCHEMISTRY STUDENT PANEL DISCUSSION | 9:30 A.M., BOITNOTT ROOM

BIOLOGICAL TERRORISM: A STUDY ON THE ANTHRAX ATTACKS OF 2001 AND SCIENTISTS' RESPONSE<sup>†</sup>

*Moderator: Chandler Parker; Faculty Advisor: Dr. Sara Fitzgerald*

Presenters: Leah Aclin, Chandler Parker, Carleigh Studtmann

### › FAMILY AND CONSUMER SCIENCES PANEL DISCUSSION | 9:30 A.M., MCKINNEY 223

THE LIMITS OF MARRIAGE: WHY GETTING EVERYONE MARRIED WON'T SOLVE ALL OUR PROBLEMS

*Moderator: Micaela Verry; Faculty Advisor: Dr. Donna Hoskins*

Presenters: Jackie Lamas, Alexis Mathias, Hayley Nye, Kaley Saxton

## Friday, May 5

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### › ALPHA CHI RESEARCH PRESENTATIONS | 1 P.M., COLE HALL

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Katherine Smith	The Effects of Rehabilitation on Patients with Aortic Valve Replacements	Health and Exercise Science	Prof. Carmen Moyer
Aiden Thompson	Native Wages and Immigration	Economics & Political Science	Dr. Karie Dornon & Dr. David Huffman
Sydney Richardson	Evil Will Always Triumph Over Good Because Good is Dumb: An Analysis of Minorities in Mel Brooks' Films	English & Sociology	Dr. Scott Suter
Victoria Piper	Wait, Clark Kent is Superman?! Goffman, Hochschild, and the "Superhero Self"	Sociology	Dr. Benjamin Albers
Jeffrey Felton	Early's Tarheels: The North Carolina Soldier in the Shenandoah Valley, June-November, 1864	History	Dr. Steve Longenecker

### › FACULTY RESEARCH PRESENTATIONS | 2 P.M., BOITNOTT ROOM

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>
Dr. Verne Leininger	A Midy Sequence in the Powers of 2	Mathematics & Computer Science
Dr. Steve Longenecker	Pulpits of the Lost Cause: The Faith of Former Confederate Chaplains during Reconstruction	History & Political Science
Dr. Jenny M. Martin	Dispositions of New Literacies: An English Education Digital Practicum	Education



Friday, May 5

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**CHORAL CONCERT**  
**7:30 P.M., CARTER CENTER**  
*Red is the Rose: Songs of Color and Growth*  
*Dr. John McCarty, director*

Saturday, May 6

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**JAZZ ENSEMBLE CONCERT**  
**3 P.M., COLE HALL**  
*The Many Sounds of Jazz*  
*Dr. Christine Carrillo, director*

Monday, May 8

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› **SENIOR ART THESIS EXHIBITION OPENING | 5-8 P.M.**

<i>Artist</i>	<i>Location</i>
Bryan Cody	The Black Box Theatre
Alden Hough	The Miller Gallery
Maggie McMann	McKinney
Allison Moore	Moomaw Lounge
Frank Simme	Library
Kim Simpson	McKinney
Autumn Swann	KCC Lobby
Kaleb Vankinscott	Memorial Hall
Camilla Wilkerson	Bowman 3rd Floor
Ben Zeller	Center for Engaged Learning

Tuesday, May 9

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**ARTISTS' TALKS**  
**7-10 P.M., BOITNOTT ROOM**

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# Thank You

## Bridgewater Campus Community:

It is with great pleasure that we present to you the third ASPIRE, our campus celebration of Arts, Scholarship, Performance, Innovation and Research Excellence. We would like to thank the entire campus—students, staff, administration and faculty—for their support of ASPIRE. We hope you will be inspired by the amazing array of scholarly endeavors going on at Bridgewater.

*Sincerely,*

Research Resource Group

*Dr. Karie Dornon, co-chair*

*Dr. Brian Kelley, co-chair*

*Dr. Stephen Baron*

*Dr. Timothy Brazil*

*Dr. Jessica Brophy*

*Dr. Donna Hoskins*

*Dr. Yuka Kishida*

*Dr. Szymon Stojek*





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