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ASPIRE 2016 Program

Bridgewater College

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ASPIRE

A Celebration

of the

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



Thursday, April 21 - Monday, May 2

BRIDGEWATER COLLEGE

Bridgewater, Virginia

Letter from the President

April 2016

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

Thursday, April 21

9:30 A.M.	COLE HALL	ALPHA CHI STUDENT RESEARCH PRESENTATIONS
9:30 A.M.	BOITNOTT ROOM	CULTURAL STUDIES STUDENT PANEL DISCUSSION
9:30 A.M.	MCKINNEY 100	WORLD LANGUAGES AND CULTURES STUDENT PANEL DISCUSSION

Friday, April 22

1-2 P.M.	BOITNOTT ROOM	FACULTY SESSION I
2-2:30 P.M.	BOITNOTT ROOM	FACULTY POSTER PRESENTATIONS
2:30-3:30 P.M.	BOITNOTT ROOM	FACULTY SESSION II

Sunday, April 24

3 P.M.	COLE HALL	JAZZ ENSEMBLE CONCERT
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Tuesday, April 26

9:30 A.M.	COLE HALL	ALPHA CHI STUDENT RESEARCH PRESENTATIONS
9:30 A.M.	BOITNOTT ROOM	CULTURAL STUDIES STUDENT PANEL DISCUSSION

Wednesday, April 27

5:30-6:30 P.M.	NININGER HALL	STUDENT POSTER SESSIONS
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Friday, April 29

7:30 P.M.	CARTER CENTER	SPRING CHORAL CONCERT
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Monday, May 2

5-8 P.M.	VARIOUS LOCATIONS	SENIOR ART THESIS EXHIBITION OPENING
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Schedule

Thursday, April 21

STUDENT RESEARCH PRESENTATIONS

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

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Jasmine Guadarrama	Inequitable Struggle—Undocumented	Communication Studies	Dr. Bernardo H. Motta
Grey Robinson	Concept Mapping: New Tool in Understanding Addiction, Treatment, and Prevention	Psychology	Dr. Brian M. Kelley
Charlotte McIntyre	Woven Winds of Trade: The Failure of the East India Company, Agency Houses, and Indians in the Decline of the Indian Cotton Industry, 1813-1833	History & Political Science	Dr. Brandon D. Marsh

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

COMMUNICATION MATTERS ON CAMPUS: CREATING SAFE SPACES THRU DIALOGUE - PANEL I

Moderator: David L. Reznik, Assistant Professor of Sociology & Advisor for the Cultural Studies minor

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Romario Blackwood	C'mon Professor, An F?!: Students' Perceptions toward the Grading Process	Philosophy & Religion	Dr. David L. Reznik
Bryan Kenward	Rape Culture: The Male Perspective on a Social Dilemma	History & Political Science	Dr. David L. Reznik
Triana Moore	REALationships on College Campuses	Health & Human Sciences	Dr. David L. Reznik
Forest Wilkerson	Identity U: Self-Perception and Expression on a College Campus	History & Political Science	Dr. David L. Reznik

› WORLD LANGUAGES AND CULTURES PANEL DISCUSSION | 9:30 A.M., MCKINNEY 100

SPAIN & AFRICA

Moderator: Mahan Ellison, Assistant Professor of Spanish

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Claudia Campos	The Subtle Influence on the Conquest of Spain and an Unknown Man: Count Julian	World Languages & Cultures	Dr. Mahan L. Ellison
Christina Sellers	Equatorial Guinea: A Balance between the Orient and the Occident	World Languages & Cultures	Dr. Mahan L. Ellison
Rosalyn Lake-Montero	Voices of the Republic of Equatorial Guinea: The Division between the Guinean Artists over the Course of Generations	World Languages & Cultures	Dr. Mahan L. Ellison
Aaron Snook	Similarities in Immigration Trends between the US and Mexico and Spain and Africa	World Languages & Cultures	Dr. Mahan L. Ellison

Friday, April 22

FACULTY RESEARCH PRESENTATIONS 1-4 P.M., BOITNOTT ROOM

› SESSION I | 1-2 P.M., BOITNOTT ROOM

Moderator: Brian Kelley

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>
Dr. Jennie M. Carr	"TECH"niques Which Foster Caring Relationships	Teacher Education Program
Dr. Erin Morris Miller	Understanding Students' Theories of What Makes an Effective Professor	Psychology
Dr. Mahan L. Ellison	Ghosts that No One Knows: Annobón & The Postcolonial Crisis in the Works of Juan Tomás Ávila Laurel	World Languages & Cultures
Prof. Michael Hough	New Explorations in Steel: Recent Welded Sculpture	Art

› POSTER PRESENTATIONS | ON DISPLAY, 1-3:30 P.M., PRESENTATIONS, 2-2:30 P.M., BOITNOTT ROOM

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>
Dr. Karie A. Barbour	Ethical Dilemmas: Reactions across Majors and Spheres of Influence	Economics and Business Administration
Prof. Scott Jost	Source and Confluence: Exploring the Chesapeake Bay Watershed	Art
Dr. Jason E. Ybarra	Investigating the motion of Herbig-Haro objects in star forming regions	Physics

› SESSION II | 2:30-3:30 P.M., BOITNOTT ROOM

Moderator: Karie Barbour

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>
Dr. Tracy L. Deem	Role of IL-3 in immune responses to Plasmodium berghei in a murine model of malaria	Biology
Dr. Jenny M. Martin	Shared Leadership: Democratic Learning and New Literacies in Teacher Education	Education
Prof. Carmen Moyer	Influence of Maternal Exercise on Fetal & Neonatal Health	Health & Human Sciences
Dr. Verne Leininger	A Multiplication Trick	Mathematics & Computer Science

Schedule

Sunday, April 24

JAZZ ENSEMBLE CONCERT

3 P.M., COLE HALL

The Best of the Big Band Era

Dr. Christine Carrillo, director

Tuesday, April 26

STUDENT RESEARCH PRESENTATIONS

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

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Stephen Hoyle	T. H. White's Once and Future England: Nostalgia for Feudalism, Contempt for Modernism	English	Dr. Christian C. Sheridan
Delaney Burgett	MUSIC in the Flipped Classroom	Education	Dr. Jenny M. Martin
Matthew Pisarcik	From Regeneration to Development—Directing the Fate of Stem Cells	Biology	Dr. Moshe Khurgel
Andrew Bollinger	The City Will Rise	Philosophy & Religion	Dr. Jacob N. Graham

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

COMMUNICATION MATTERS ON CAMPUS: CREATING SAFE SPACES THRU DIALOGUE - PANEL II

Moderator: David L. Reznik, Assistant Professor of Sociology & Advisor for the Cultural Studies minor

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
José Cardoso	Reverse Discrimination?: Attitudes toward Affirmative Action	World Languages & Cultures	Dr. David L. Reznik
Nate Golden	Differential Treatment of Athletes vs. Non-Athletes	Psychology	Dr. David L. Reznik
Jasmine Hunter & Melissa McMIndes	Who Is That Girl I See Staring Back At Me?	Sociology & Psychology	Dr. David L. Reznik

Wednesday, April 27

POSTER SESSIONS

5:30-6:30 P.M., NININGER HALL

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Michael Enis	Financial Statement Analysis (NKE vs. UA)	Economics & Business Administration	Prof. Tom E. Rosengarth
Cassidy Coffey	Effects of Gender Identity and Religiosity on Attitudes towards Infidelity	Sociology	Dr. Timothy J. Brazill
David Bates	Alcohol and Earnings Regression Analysis	Economics & Business Administration	Dr. Karie A. Barbour Dr. David C. Huffman
Amelia Johnston	Changes in Tannin Content Found in Vegetation Inside vs. Outside Exclosures of the Allegheny National Forest	Biology	Dr. Tamara L. Johnstone-Yellin
Haley Lloyd	Habitat contamination and antipredator behaviors in longnose dace (<i>Rhinichthys cataractae</i>)	Biology	Dr. Kimberly J. Bolyard
Ashley Crossman	Purification and Genomic Sequencing of Bacteriophages from <i>Streptomyces</i> sp. 5A	Biology	Dr. Stephen F. Baron
Marina Del Pizzo	Characterization of malaria pathogenesis in C57BL/10 mice deficient in Interleukin-3	Biology	Dr. Tracy L. Deem
Maria Marlin	An Alluring Ascomycete: A Taxonomic Study of <i>Chlorosplenium chlorea</i> (Schwein.) M.A. Curtis	Biology	Dr. Edgar B. Lickey
Malia Berg	Effects of drying and storage method on nutritional content of acorn masts for wildlife rehabilitation patients: preliminary results from a pilot study	Biology	Dr. Tamara L. Johnstone-Yellin
Makenzie McDonald	Prenatal Learning in Bobwhite Quail Embryos: Variation in Heart Rate and Auditory Discrimination	Psychology	Dr. Hunter G. Honeycutt
Troy Soaper	Thoracic Biometrics using Carotid Pulse Signals with Varying Heart Rates	Mathematics & Computer Science	Dr. R. Eric McGregor
Alys Harshbarger	Evaluation of Habitat Use by Longnose Dace (<i>Rhinichthys cataractae</i>) in Mercury-Contaminated and Non-Contaminated Rivers	Biology	Dr. Kimberly J. Bolyard
Li Yiwen	Music Sheet Viewer App	Mathematics & Computer Science	Prof. Vincent Capaccio
Katie Estep	App: Notes and Calendar	Mathematics & Computer Science	Dr. R. Eric McGregor
Jonathan Gee	Progression Checklist	Mathematics & Computer Science	Dr. R. Eric McGregor
Joshua Bollinger	Characterizing the Effect of Applied Bias on Dye Sensitized Solar Cell Performance	Chemistry	Dr. Ian J. McNeil
John Oates	Acid Rain Kinetics in Calcareous and Silicate Soils	Chemistry	Dr. Kenneth S. Overway
Zachary Kues	The Effect of External Factors on the Listing Price of Homes across the State of Virginia	Economics & Business Administration	Dr. Karie A. Barbour

POSTER SESSIONS CONTINUED

<i>Presenter(s)</i>	<i>Title</i>	<i>Department</i>	<i>Faculty Mentor</i>
Jae Bonham	Access—An Android Application	Mathematics & Computer Science	Dr. R. Eric McGregor
Daniel Feivor	A comparison of the effectiveness of glow sticks and organic bait for trapping <i>Notophthalmus viridescens</i>	Biology	Dr. Gavin R. Lawson
Caleb Quinn	Synthesis of Sterically Hindered Ketones	Chemistry	Dr. Joseph M. Crockett
Jose Corona	Modeling Carotid Pulse Signals	Mathematics & Computer Science	Dr. Verne E. Leininger
Kamal Kaddoura	Scattering of Spin-1 Particles: The Effect of Bose Symmetry and the Wigner d-Matrix	Physics	Dr. Deva O'Neil
Daniel Feivor	The Synthesis and Characterization of an Asymmetrical Porphyrin	Chemistry	Dr. Ellen M. Mitchell
John Graham	Elite Inventory	Mathematics & Computer Science	Prof. Vincent Capaccio
Ashley Linville	French Ceramics	Art	Prof. Michael J. Hough
Jordan Curran	RPG Arena - Game for Android	Mathematics & Computer Science	Dr. R. Eric McGregor
Sarah Herndon Billy Lentz Rachael Loy David Robinson	Skyline Literacy Marketing Campaign	Economics & Business Administration	Dr. Maria V. Lugo
Dylan Norquest Andrew Buss Austin Hamric Richard Johnson Cody Sheets	The Dayton Market—Marketing Plan	Economics & Business Administration	Dr. Maria V. Lugo
Samantha Saylor Malia Berg Chris Lantz Tracy Deem	Mechanism for malaria: A look at the innate immune system	Biology	Dr. Tracy L. Deem
Madison Swiney Ryan Ashburn Brian Bosak Mohammad Albaz	On The Road Collaborative Business Plan	Economics & Business Administration	Dr. Maria V. Lugo
Theresa Emmerman Megan Grubbs Zach Lokey Josh Wood	Rockingham Educational Foundation Inc. Financial Procedures Consulting Project	Economics & Business Administration	Dr. Maria V. Lugo
Allison Hamadyk Michael Crosswhite Mark Stutes Kevon White Steven Cosgrove	The Jane House Project	Economics & Business Administration	Dr. Maria V. Lugo
Logan Hasty Charlotte E. McIntyre Juan C. Padilla Jr. Julianna M. Brooks Aaron M. Snook	BC in 3D	History & Political Science	Dr. Christopher R. Versen

Justin Law AJ Fitzpatrick Mark Corella Chris Sokolyuk	Boy Scouts	Economics & Business Administration	Dr. Maria V. Lugo
Caine Collins Malcolm Johnson Zachary Lokey Chris Mairson Logan Nelson	Eagle's Eye Lawn Care, LLC.	Economics & Business Administration	Dr. Maria V. Lugo
Logan McGlynn Chris Dean Curtis Hughes Haley Challberg	Our Community Place	Economics & Business Administration	Dr. Maria V. Lugo

Friday, April 29

SPRING CHORAL CONCERT 7:30 P.M., CARTER CENTER

Let the Harps of Welcome Ring!

Dr. John McCarty, conductor

Monday, May 2

SENIOR ART THESIS EXHIBITION OPENING 5-8 P.M.

<i>Artist</i>	<i>Location</i>	<i>Artist talk time (if applicable)</i>
Shea Sutherland	Alexander Mack Memorial Library (Miller Art Gallery, second floor)	5 p.m.
Heather Offenbacher	Alexander Mack Memorial Library (Miller Art Gallery, second floor)	5:15 p.m.
Alexis Feagans	Alexander Mack Memorial Library (second floor)	5:30 p.m.
Dean Bryant	Alexander Mack Memorial Library (basement)	6 p.m.
Graham Ryder	Alexander Mack Memorial Library (basement)	6:15 p.m.
Lauren Johnson	Center for Engaged Learning	6:40 p.m.
Thy Bui	Bowman Hall (first floor lobby)	7 p.m.
Tyler Wade	McKinney Center (first floor left hallway)	7:20 p.m.
Matthew Whiting	Moomaw Hall (first floor lounge)	7:40 p.m.
Laura Van Orden	Cole Hall (basement, black box theater)	8 p.m.
Ashley Coates	McKinney Center	
Audrey Kordek	Memorial Hall	
Deidra Stultz	McKinney Center	
Jae Bonham	Kline Campus Center Lobby	

Thank You

Bridgewater Campus Community:

It is with great pleasure that we present to you the second 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. Robyn Puffenbarger, chair

Dr. Karie Barbour

Ms. Jada Blinn

Dr. Timothy Brazill

Dr. Tracy Deem

Dr. Sara Fitzgerald

Dr. Robert Hammill

Dr. Brian Kelley

Dr. Brandon Marsh

Dr. Erin Miller

Dr. David Reznik



Bridgewater College has partnered with the U.S. Department of Agriculture to obtain resources to enhance the College's facilities, including the recent addition to and renovation of the College's primary athletic facility. The College is posting the following notice as required by federal law by organizations which benefit from the USDA's funding program:

NOTICE

If you wish to file a Civil Rights program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, found online at http://www.ascr.usda.gov/complaint_filing_cust.html, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.