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## Editor Notes, Editorial Board, About Cover Art and Reviewers

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## Managing Editor's Note

Have you ever been on a roller coaster ride that is terrifying and exhilarating at the same time? That was the feeling I had overseeing the publication of the 2018 edition of *Alpenglow*, Binghamton's Undergraduate Journal of Research and Creative Activity. There were multiple curves and loops where I did not know if I was going to make to the end of the ride. But looking back at the end, it was totally worth it. It has truly been a privilege being the Managing Editor.

We started off the year with a new director, Valerie Imbruce, who was a major influence of moving the journal to a new website. Creating and getting accommodating to the new website had a bit of a learning curve but this will make the process of submitting and reviewing articles for *Alpenglow* a lot easier and smoother. I want to thank Ashley Serbonich and Tessa Handa for providing support to help me through this process.

The call for submissions was late as I had to find new members to replace the outgoing members of the editorial board. I would like to thank Rachel Coker, Congrui Jin, Carl Lipo, Miesha Marzell, Jeffrey Mativetsky, Carolyn Pierce, Ashley Serbonich and William Spangler for volunteering their time, humor and effort to review each submission and provide recommendations in an effort to maintain the quality of articles published in the journal. We also had to find a new art editor. This took several months with the recruiting and interviewing process. I want to thank Benjamin Mclauchlin for navigating through our recommendations and providing a high quality cover art to translate undergraduate research at Binghamton University. Also, I would like to thank him for the supplementary images provided for selected submissions and creating bookmarkers for our new website.

Each article in *Alpenglow* is reviewed by at most two Binghamton University's faculty/staff and advanced graduate students. Finding reviewers proved to be a difficulty and at times a frustrating process and so at this point, I want to thank all our reviewers for volunteering and providing honest feedback in a timely manner. Without you it would not be possible to have a peer-reviewed undergraduate journal. I would also like to thank Elyssa Diamond for copyediting.

I am delighted with the articles and creative pieces that were published this year. This year's publication was diverse ranging from two video submissions, parody of the 2016 US presidential election to the prevalence of bacteria on health care worker's cellphone. After reading these pieces, I am sure you will be impressed by the amazing work that Binghamton's undergraduate students have done. It is with great pleasure that I present the 2018 edition of *Alpenglow*, Binghamton's Undergraduate Journal of Research and Creative Activity.

Chanita Holmes  
Managing Editor

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### **RACHEL COKER**

*Division of Research*

Rachel Coker, director of research advancement at Binghamton University, has more than 15 years of experience in journalism and public relations. Since joining the University's staff in 2005, she has edited several campus publications and served as an adjunct instructor of journalism at Binghamton and SUNY Broome Community College. She earned a bachelor's degree from the University of Rochester and a master's degree from the Columbia University Graduate School of Journalism.

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### **CONGRUI JIN**

*Mechanical Engineering*



Congrui Grace Jin has been an assistant professor at the Department of Mechanical Engineering at Binghamton University since 2015. Her research interests include contact mechanics, fracture mechanics, wave propagation, rock mechanics, and composite materials. She has won Summer Scholars and Artists Program Award and S3IP Undergraduate Research Initiative Award in 2016. She published more than 30 peer-reviewed journal articles. She edited one book for Springer and published two book chapters. She served as a reviewer for 25 international scientific journals.

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### **CARL LIPO**

*Anthropology and Environmental Studies*



Carl Lipo is Associate Dean for Research and Programs for Harpur College, and is also a professor of geography and an archaeologist studying cultural change of human populations. He uses evolutionary theory as a means of developing methods for studying cultural transmission and the process of natural selection acting on cultural systems. His work has explored community patterning among prehistoric potters of the Mississippi Valley, patterns of inheritance among stone tools producers in North America and the conditions that led the populations of Easter Island (Rapa Nui, Chile) to construct their famous monumental



**MIESHA MARZELL**

*CCPA Social Work*

As a researcher, Miesha Marzell is interested in the etiology and prevention of high-risk substance use and the improvement of mental health among racial/ethnic minority youth, college students and athletic populations. Dr. Marzell's research interests also extend to the environmental and policy factors that can influence behavior and promote healthy lifestyles. She wants to translate scientific evidence into recommendations for substance abuse prevention, public policy and clinical practice

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**JEFFREY MATIVETSKY**

*Physics, Applied Physics and Astronomy*

Jeffrey Mativetsky's research centers on the relationships between nanoscale structure and electrical function in organic materials for solar cells and electronics. Prof. Mativetsky received his PhD in Physics from McGill University (Canada) in 2006. From 2007 - 2010 he was a Marie Curie Fellow at the Supramolecular Science and Engineering Institute in Strasbourg, France, and from 2010 - 2012 he was a Camille and Henry Dreyfus Environmental Chemistry Fellow at Princeton University. He joined Binghamton University in the fall of 2012.

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**CAROLYN PIERCE**

*Decker School of Nursing*

Carolyn Pierce explores the human response to chronic diseases and biomedical interventions by engaging in collaborative research with bioengineers delving into such diseases as osteoporosis, heart failure, dementia, varicose veins and fibromyalgia. Her research centers on calf-muscle pump stimulation as a mechanism to improve venous return and thus alter the course of various chronic diseases. Pierce is a recipient of the Dr. Nuala McGann Drescher Affirmative Action/ Diversity Award as well as the Entrepreneurship Across the Curriculum Award. She teaches research and theory at the doctoral level.



**ASHLEY SERBONICH**

*Assistant Director, Harpur Edge, LACE Coordinator*

Ashley Serbonich, is currently the assistant director of Harpur Edge. She previously worked as assistant director of the Undergraduate Research Center at the Binghamton University where she provided support to students with research and scholarship needs. She was also involved with the creation and publication of the previous issues of the Alpenglow journal.

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**WILLIAM D. SPANGLER**

*School of Management*

William D. Spangler, associate professor of management at Binghamton University, has over 30 years of experience in teaching and research. His research interests include personality and leadership, computerized content analysis of leader personality and leader behavior and motivation.

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**BENJAMIN MCLAUCHLIN**

*Art Editor*

Benjamin Mclauchlin is currently a senior pursuing a degree in Environmental Studies (Ecosystems) and Graphic Design. He has received a Summer Scholars and Artists fellowship for his research work, designed and created several environmental interactive art exhibits for research, and is also published in Alpenglow. He volunteers in the Nature Preserve, attends Ballroom Dance Club and participates in the Hinman Production Company, a student-run theater group. He is currently working on the publication of a children's book.

## About Cover Art

The cover illustration was created by Benjamin Mclauchlin, the undergraduate Art Editor of Alpenglow.

*“The main theme of this piece was “boundary crossing” and I aimed to emphasize the human aspect of research as well as the varied forms that research can take on at Binghamton University. The viewer is encouraged to focus on the students and faculty of varied backgrounds, who navigate the abstracted landscape of research and creativity and connect with one another from across disciplines. Varied depth within the painting suggests that there are more objects, ideas, and places of which those in the painting, and even the viewer, can explore. Vibrant, bold color reflects the energy that Binghamton students and faculty pour into their work, as well as the beauty in the world that one can see through research and creative expression..” – Benjamin Mclauchlin*

## Reviewers

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