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The Faculty Notebook, September 2016

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The Faculty Notebook, September 2016

Abstract

The Faculty Notebook is published periodically by the Office of the Provost at Gettysburg College to bring to the attention of the campus community accomplishments and activities of academic interest. Faculty are encouraged to submit materials for consideration for publication to the Associate Provost for Faculty Development. Copies of this publication are available at the Office of the Provost.

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Disciplines

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THE FACULTY NOTEBOOK

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PUBLICATIONS

Yasemin Akbaba, Associate Professor of Political Science, with co-author Jonathan Fox, published "Restrictions on the Religious Practices of Religious Minorities: A Global Survey" in *Journal of Political Studies* 63.5 (2015): 1070-1086. This study examines sources of religious discrimination with a particular emphasis on comparison of the identity- versus structure-related causes with a new data set, which includes data on 598 minorities in 177 countries covering the years 1990-2008.

Matthew Amster, Professor of Anthropology, published "Animism and Anxiety: Religious Conversion among the Kelabit of Sarawak" in *Animism in Southeast Asia*, edited by Kaj Århem and Guido Sprenger (London: Routledge, 2015). This chapter offers an ethno-historical perspective on conversion to Christianity among the Kelabit of Borneo. It explores how conversion was motivated, in part, by a rejection of animistic beliefs that were a source of anxiety, while also illustrating how aspects of animistic thought persist in contemporary Kelabit Christianity. This book seeks to advance our understandings of animism based on the unique contributions of anthropologists working in Southeast Asia.

Kathy Berenson, Assistant Professor of Psychology, with student co-author **Wesley Ellen Gregory '15**, and co-authors Erin Glaser, Aliza Romirowsky, Eshkol Rafaeli, Xiao Yang and Geraldine Downey, published "Impulsivity, Rejection Sensitivity, and Reactions to Stressors in Borderline Personality Disorder" in *Cognitive Therapy and Research* 40.4 (2016): 510-521. This research used laboratory tasks to examine vulnerabilities contributing to impulsive reactions to stressors in participants with borderline personality disorder relative to healthy participants and a clinical comparison group with avoidant personality disorder.

Berenson, with co-authors Suman Ambwani, Lea Simms, Freya Corfield and Janet L. Treasure, published "Seeing Things Differently: An Experimental Investigation of Social Cognition and Interpersonal Behavior in Anorexia Nervosa" in *International Journal of Eating Disorders* 49.5 (2016): 499-506. This research examined interpersonal self-efficacy, perceptions of dominance/submission and coldness/warmth, and hypothetical behavioral reactions among individuals with and without anorexia nervosa. Results suggest that the disorder is characterized by difficulties perceiving and reciprocating interpersonal warmth.

Temma Berg, Professor of English and Women, Gender, and Sexuality Studies, published "Reading Amazon Fragments: Queering *Shirley*" in *Brontë Studies* 41.3 (2016):

216-228. This article argues that Charlotte Brontë uses a series of allusive Amazon fragments, mystical and mythical images of submerged and powerful women, to link her eponymous heroine to Anne Lister, a nineteenth-century Yorkshire landowner who defied many of the gender conventions of her day. Seen variously as lesbian, an example of female masculinity, and transgender, Anne exceeds any attempt to contain her.

Peter S. Carmichael, Director of the Civil War Institute and Robert C. Fluhrer Professor of Civil War Studies, published “Relevance, Resonance, and Historiography: Interpreting the Lives and Experiences of Civil War Soldiers” in *Civil War History* 62.2 (2016): 170-185. Carmichael shares his experiences of portraying Corporal Bobby Fields at Appomattox Court House National Historical Park in the summer of 1985. He uses Fields as a conduit to explore the scholarship pertaining to the common soldier of the Civil War, and shows how material culture can provide a new window into understanding and making the battlefield come alive for visitors.

Vernon Cisney, Visiting Assistant Professor of Philosophy, with Jonathan Beever, co-edited *The Way of Nature and the Way of Grace: Philosophical Footholds on Terrence Malick's "The Tree of Life"* (Evanston, IL: Northwestern University Press, 2016). This work is an edited collection of philosophical essays exploring Terrence Malick's 2011 film *The Tree of Life* from various perspectives—cinematic, spiritual, and philosophical. Themes explored include the meaning of suffering; transgression and redemption; betrayal and forgiveness; and time and memory.

John Commito, Emeritus Professor of Environmental Studies, with student co-authors **Natasha Gownaris '09, Danielle (Bates) Haulsee '10, Sara Coleman '10** and co-author Brian F. Beal, published “Separation Anxiety: Mussels Self-Organize into Similar Power-Law Clusters Regardless of Predation Threat Cues” in *Marine Ecology Progress Series* 547 (2016): 107-119. We exposed mussels to water-borne predation threat cues and discovered that these bivalves self-organized into protective aggregations with power-law spatial characteristics regardless of cue type. Bet-hedging with a power-law distribution of cluster shapes and sizes may be the optimal strategy to defend against crabs and other predators. Tasha got her PhD from Stony Brook University, and studies penguins in South America as a post-doc at the University of Washington. Danielle conducts shark research in the PhD program at the University of Delaware. Sara got her MS from the University of North Carolina, and is a coastal scientist for the Nature Conservancy.

Kay Etheridge, Professor of Biology, published “The History and Influence of Maria Sibylla Merian's Bird-Eating Tarantula: Circulating Images and the Production of Natural Knowledge” in *Global Scientific Practice in the Age of Revolutions, 1750–1850*, edited by Patrick Manning and Daniel Rood (Pittsburgh: University of Pittsburgh Press, 2016).

Etheridge published “The Biology of *Metamorphosis insectorum Surinamensium*” in *Maria Sibylla Merian: Metamorphosis insectorum Surinamensium, 1705*, edited by Marieke van Delft and Hans Mulder (Tiel, Belgium/The Hague, Netherlands: Lannoo, 2016). This book is a full-size facsimile of Merian's 1705 masterwork, *Metamorphosis insectorum Surinamensium* (Transformation of the Surinamese Insects), reproduced in Dutch and

English with four commentary chapters. Etheridge's chapter discusses the biological contributions made by Merian in the first book to describe and picture plants and insects from the New World in an ecological context.

Christopher Fee, Professor and Chair, Department of English, with student co-editors **Danielle Dattolo '15, Emily Francisco '14**, and co-editor Jeffrey Webb, edited *American Myths, Legends, and Tall Tales: An Encyclopedia of American Folklore* (Santa Barbara, CA: ABC-CLIO, 2016). This three-volume survey of the history of tall tales, folklore, and mythology in the United States from earliest times to the present includes stories and myths from the modern era that have become an essential part of contemporary popular culture. Special attention is paid to African American folklore, Asian American folklore, and the folklore of other traditions often overlooked or marginalized in studies of the topic.

Jeremy Garskof, Interim Director of Technical Services, Musselman Library, with co-authors Jill Morris, Tracie Ballock and Scott Anderson, published "Towards the Collective Collection: Lessons Learned from PALCI's DDA Pilot Projects and Next Steps" in *Collaborative Librarianship* 8.2 (2016). This article is intended to add an important case study to the literature on consortial DDA through a critical evaluation of PALCI's programs with ebrary, EBSCO, and JSTOR. Perhaps more importantly, it is intended to inform consortial stakeholders about decisions to replicate (or not) PALCI's programs in an effort to repeat successes and avoid past failures.

Brent Harger, Assistant Professor of Sociology, published "You Say Bully, I Say Bullied: School Culture and Definitions of Bullying in Two Elementary Schools" in *Sociological Studies of Children and Youth* 20 (2016): 91-121. This paper examines the definitions of bullying used by students and adults in elementary schools and the effects of these definitions within the broader school culture.

Ian Isherwood, Visiting Assistant Professor of War and Memory Studies, Department of Civil War Era Studies, published "The British Publishing Industry and Commercial Memories of the First World War" in *War in History* 23.3 (July 2016): 323-340. Veteran recollections have been a significant part of the formation of British popular memory of the conflict, as well as part of the "cultural turn" in First World War studies since the 1980s. This article considers the British publishing industry and commercial war memoirs. It assesses the literary marketplace for martial literature and the commercial memory of the First World War in the interwar period.

Alvaro Kaempfer, Associate Professor of Spanish and Latin American, Caribbean and Latino Studies, and currently **Chair of Globalization Studies**, published "Nuestro Mayo de 1960, Chile: crónicas de la catástrofe del Sesquicentenario" in *Escritura de la historia y política: El Sesquicentenario de la Independencia en América Latina*, edited by Alexander Betancourt and Gerard Borrás (Lima: Instituto Francés de Estudios Andinos, 2016). This essay is a review of the sesquicentennial celebrations of Chilean national independence, in the general context of the Cold War and the specific effects of the 1960 earthquake (the biggest in recorded history). The earthquake framed a set of interpretative tools to read a

national project against the role of natural “disasters” in human, political and cultural history.

Charles Kann, Adjunct Professor of Computer Science, published “Implementing a One-Address CPU in Logisim” (Gettysburg, PA: Gettysburg College, 2016). Published as part of *Gettysburg College Open Educational Resources: Book 3*, this monograph on a one-address ISA computer built in Logisim includes the assembly language, machine code, and hardware implementation of the machine, as well as problems which allow the reader or faculty member to explore the implications of the design.

Kann published *Introduction to MIPS Assembly Language Programming* (Gettysburg, PA: Gettysburg College, 2015). Published as part of *Gettysburg College Open Educational Resources: Book 2*, this text covers procedural programming, function execution, and the different types of memory that exist in a program.

Kann published *Digital Circuit Projects: An Overview of Digital Circuits through Implementing Integrated Circuits—Second Edition* (Gettysburg, PA: Gettysburg College, 2014). Published as part of *Gettysburg College Open Educational Resources: Book 1*, this new edition includes chapters on Boolean algebra and K-maps, and on applying the ICs covered in the book to a CPU.

Koren Lipsett, Professor of Chemistry, with student co-author **Zhongyuan (Evan) Zhao '10**, and Markus H. Kuehn, Marilyn Menotti-Raymond, S. Scott Whitmore, Todd E. Scheetz, Victor A. David, Stephen J. O'Brien, Jackie K. Jens, Elizabeth M. Snella, N. Matthew Ellinwood and Gillian J. McLellan, published “A Mutation in LTBP2 Causes Congenital Glaucoma in Domestic Cats (*Felis catus*)” in *PLoS ONE* 11.5 (2016): e0154412. This research focused on determining the genetic basis for primary congenital glaucoma in cats, a valuable large mammal model that resembles the human genetic disorder.

Brian Meier, Professor of Psychology, published “Bah Humbug: Unexpected Christmas Cards and the Reciprocity Norm” in *Journal of Social Psychology* 156.4 (2016): 449-454. The reciprocity norm refers to the expectation that people will help those who helped them. Research has shown that the norm is surprisingly strong, as 20% of people in a study from the 1970s returned a Christmas card received from a stranger. However, in the current project, it was found that this norm might have lost its impact (at least in this context), as only 2% of 755 people who received a Christmas card from a stranger returned a card. A second study revealed that distrust of the unknown sender was one potential reason for the lack of reciprocation.

Todd Neller, Professor of Computer Science, with Yoshiaki Yamaguchi, published “First Player’s Cannot-Lose Strategies for Cylinder-Infinite-Connect-Four with Widths 2 and 6” in *Advances in Computer Games: 14th International Conference, AGC 2015, Leiden, the Netherlands, July 1-3, 2015, Revised selected papers*, edited by Akse Plaats, Jaap van den Herik, and Walter Kosters (Cham, Switzerland: Springer, 2015). This paper presents Connect 4 strategies by which players may prevent opponent victories for specific widths

of infinite cylindrical boards. The anthology is Vol. 9525 in the “Lecture Notes in Computer Science” series.

Neller, with Laura E. Brown, James B. Marshall, Lisa Torrey, Nate Derbinsky, Andrew A. Ward, Thomas E. Allen, Judy Goldsmith and Nahom Muluneh, published an abstract titled “Model AI Assignments 2016” in *Proceedings of the Sixth Symposium on Education Advances in Artificial Intelligence (EAAI-16)* (2016). The abstract summarizes peer-reviewed accepted work of the Model AI Assignments session which Neller chaired. This work finds its home in an open-access repository he hosts at Gettysburg College (modelai.gettysburg.edu), the largest repository of curricular materials for Artificial Intelligence education. EAAI-16 was collocated with the AAAI Conference on Artificial Intelligence (AAAI-16), Phoenix, AZ, February 12-17, 2016.

Neller, with student co-authors **Colin M. Messinger '17** and **Zuozhi Yang '17**, published “Learning and Using Hand Abstraction Values for Parameterized Poker Squares” in *Proceedings of the Sixth Symposium on Education Advances in Artificial Intelligence (EAAI-16)* (2016). The paper described the research and experimentation behind the design of artificial intelligence (AI) to play the game Parameterized Poker Squares. This AI player placed second in the inaugural NSG Challenge undergraduate research competition. Todd and Zuozhi presented the paper in an EAAI session collocated with the AAAI Conference on Artificial Intelligence (AAAI-16), Phoenix, AZ, February 12-17, 2016.

Neller, with Michael Wollowski, Robert Selkowitz, Laura E. Brown, Ashok Goel, George Luger, Jim Marshall, Andrew Neel and Peter Norvig, published “A Survey of Current Practice and Teaching of AI” in *Proceedings of the Sixth Symposium on Education Advances in Artificial Intelligence (EAAI-16)* (2016). The paper presented and interpreted the data of two surveys concerning the modern practice of teaching Artificial Intelligence (AI), and practitioner perceptions of the relative importance of AI topics. The paper was presented in a panel presentation and discussion format in an EAAI session collocated with the AAAI Conference on Artificial Intelligence (AAAI-16), Phoenix, AZ, February 12-17, 2016.

Peter Pella, Emeritus Professor of Physics, published *The Midlife Crisis of the Nuclear Nonproliferation Treaty* (San Rafael, CA: Morgan & Claypool, 2016). The Nuclear Nonproliferation Treaty (NPT), promoting the peaceful uses of nuclear technologies, has been the principal legal barrier against the spread of nuclear weapons for 45 years. Though most would agree that it has largely been successful, many are concerned about its continued viability. The perceived slow pace of nuclear disarmament, the interest of some countries in considering weapons programs while party to the treaty, and the funding and staffing issues at the IAEA are all putting considerable strain on the treaty. This book explores those issues, and offers possible solutions to ensure that the NPT will survive effectively for many years to come.

Sarah Principato, Professor of Environmental Studies, with student co-authors **Alexis Moyer '13**, **Alyson Hampsch '14** and **Heather Ipsen '16**, published “Using GIS and Streamlined Landforms to Interpret Palaeo-Ice Flow in Northern Iceland” in *Boreas* 45.3 (2016): 470-482. We present evidence for a paleo-ice stream in northern Iceland during

the last glacial maximum of Iceland. We provide a detailed analysis of over 600 landforms, which are used to interpret ice flow conditions.

Radost Rangelova, Associate Professor of Spanish, published *Gendered Geographies in Puerto Rican Culture: Spaces, Sexualities, Solidarities* (Chapel Hill: University of North Carolina Press, 2016). This book is a critical study of gendered spaces—the family house, the factory, the beauty salon, and the brothel—in Puerto Rican literature and film. It argues that, in the process of challenging traditional images of femininity, the texts I analyze gender and queer the spaces they inhabit, generating possibilities for contesting the official Puerto Rican cultural nationalist discourse on gender and nation, and proposing alternatives to its spatial tropes through feminine labor and solidarities.

Michael Ritterson, Emeritus Professor of German Studies, with Utz Rachowski, published “Eine neue Ära” in *Ostragehege: Zeitschrift für Literatur, Kunst* 81 (2016): 37-40. Three brief accounts, originally in English under the title “New Phases,” by Jorge R. Sagastume, of incidents he experienced as a teenager during the 1970s military dictatorship in Argentina. Sagastume is an associate professor of Spanish at Dickinson College.

Megan Adamson Sijapati, Associate Professor of Religious Studies, with Jessica Vantine Birkenholtz, edited *Religion and Modernity in the Himalaya* (New York: Routledge, 2016). Based on fieldwork across the Himalaya, this book documents understudied forms of religion in the region—in Bhutan, northern India, Pakistan, Tibet and Nepal—and presents unique perspectives on the phenomenon and experience of religion, discussing why, when, and where practices, discourses, and the category of religion itself are engaged in the 20th and 21st centuries. It examines both the religious traditions and lived human experiences of Himalayan peoples in the modern era of rapid cultural, economic, and environmental change.

Sijapati published “Modern Religiosities, Religious Modernities: Views from the Himalaya” in *Religion and Modernity in the Himalaya*, edited by Megan Adamson Sijapati and Jessica Vantine Birkenholtz (New York: Routledge, 2016). This introductory chapter discusses the key theoretical issues and questions at play in the study of religion and modernity in the Himalaya.

Sijapati, with Tina Harris, published “From Heavy Beads to Safety Pins: Adornment and Religiosity in Hindu Women’s Pote Practices” in *Material Religion: The Journal of Objects, Art and Belief* 12.1 (2016): 1-25. A new generation of upper-caste Hindu women of the Kathmandu Valley are negotiating sociocultural norms in an ever-shifting landscape that is characteristic of modernity, yet unique to Nepal. Pote practices offer a window into these women’s shifting worlds, revealing creativity, agency, and reinvention of new modes of practice informed by traditional codes of women’s religious behavior. This article examines the object of the beaded necklace worn by married women in Nepal, called “pote,” and the ambiguities and layers of meaning surrounding pote in the lived worlds of the women who wear them. The ways women understand and use pote offer a view of religious belief as

constituted and enacted through lived practices, surrounding and taking place through material objects.

Stephen Sivy, Professor of Psychology, published “A Brain Motivated to Play: Insights into the Neurobiology of Playfulness” in *Behaviour* 153.6-7 (2016): 819-844. This invited review discusses what we currently know about the neurobiological substrates of play, and how this can help illuminate functional questions about the benefit of play.

Sivy, with co-authors Elisabeta Palagi, Gordon M. Burghardt, Barbara Smuts, Giada Cordoni, Stefania Dall’Olio, Hillary N. Fouts, Milada Řeháková-Petrů and Sergio M. Pellis, published “Rough-and-Tumble Play as a Window on Animal Communication” in *Biological Reviews* 91.2 (2016): 311-327. This review provides a framework for understanding how humans and other animals may use signals during play to communicate social intent. It is suggested in this paper that play-derived gestures may provide new mechanisms by which more sophisticated communication forms may have evolved. Rough-and-tumble play may then provide a window into the study of social cognition, emotional regulation, and the evolution of communication systems.

Brent Talbot, Associate Professor and Coordinator of Music Education, Sunderman Conservatory of Music, with co-author Karin S. Hendricks, published “Including LGBTQ Voice: A Narrative of Two Gay Music Teachers” in *Diversity Research Symposium 2014: From Research to Action*, edited by Linh Nguyen Littleford and Charlene Alexander (Muncie, IN: Ball State University Press, 2016). Our narrative tells the story of two gay music teachers (Kevin, nearing the end of his career; and James, in the first few years of teaching) meeting for the first time and dialoguing with one another about their lived experience, sexuality-specific challenges in the field of music education, and issues of resilience and support.

Talbot published “Composing/Arranging Familiar Songs in Choir with GarageBand” in *Musicianship: Composing in Choir*, edited by Jody L. Kerchner and Katherine Strand (Chicago: GIA Publications, 2016). This practical multi-stage project description demonstrates to teachers how they can engage students in arranging and composing music related to the choral curriculum by using Digital Audio Workstations (DAW) like GarageBand.

Talbot published “Discourse Analysis” in *Music Therapy Research—Third Edition*, edited by Barbara L. Wheeler and Kathleen Murphy (New Braunfels, TX: Barcelona Publishers, 2016). This chapter (a) presents discourse analysis as both epistemology and methodology; (b) suggests a sociolinguistic toolkit that could be used as one type of approach to conducting discourse analysis; (c) reviews and points to literature in music education and music therapy that have used such epistemological and methodological tools; and (d) suggests that, by engaging with discourse analysis, we can begin to ask questions about participants and their interactions within environments where music therapists operate, and analyze prevailing discourses within structures and systems of music therapy.

Jill Titus, Associate Director of the Civil War Institute, with staff co-author **Peter S. Carmichael, Director of the Civil War Institute** and **Robert C. Fluhrer Professor of**

Civil War Studies, and James J. Broomall, published “The Future of Civil War History” in *Civil War History* 62.2 (2016): 120-130. In March 2013, hundreds of academics, preservationists, consultants, historical interpreters, museum professionals, living historians, students, K-12 teachers, and new-media specialists gathered in Gettysburg to assess the state and potential future of the study of the American Civil War. The essays in this special issue build on the themes of that conference: embracing the democratic and civic potential of historical thinking; reaffirming the power of place and the importance of specific, focused stories; integrating military, political, social, cultural, and gender history; and encouraging collaboration among historians working in different settings. Our three guest editors offer their own thoughts about the state and potential future of Civil War history.

Paula Trillo, Assistant Professor of Biology, with co-authors Ximena Bernal, Michael Caldwell, Wouter Halfwerk, Mallory Wessel and Rachel Page, published “Collateral Damage or Shadow of Safety? The Effects of Signaling Heterospecific Neighbours on the Risks of Parasitism and Predation” in *Proceedings of the Royal Society B* 283.1831 (2016): 20160343. We used field playback experiments to investigate whether calling near males of a species whose signals are highly attractive to predators and parasites made frog signalers more or less vulnerable to these eavesdroppers. We discuss our results in terms of the implications for the composition of mixed-species mating aggregations in frogs.

Kerry Walters, Emeritus Professor of Philosophy, published *St. Teresa of Calcutta: Missionary, Mother, Mystic* (Cincinnati: Franciscan Media, 2016). Written to coincide with her October canonization, this biography explores both the contour of Teresa’s life as well as her spirituality, including her 50-year-long “dark night of the soul.”

Andy Wilson, Assistant Professor of Environmental Studies, with student co-authors **Brian Lonabocker ’15** and **Megan Zagorski ’16**, published “Online Mapping Tools for Geolocating Amish Settlements” in *Journal of Amish and Plain Anabaptist Studies* 3.2 (2015): 202-211. This short methodological paper resulted from an ES Senior Seminar class project. We built a database of over 2,500 Amish household addresses across Pennsylvania and Ohio, and produced what may be the finest-scaled map of Amish populations yet to be published for those two states.

Wilson, with Sarah E. Pabian, Scott R. Klinger and Margaret C. Brittingham, published “Pennsylvania’s Conservation Reserve Enhancement Program Benefits Ring-Necked Pheasants but Not Enough to Reverse Declines” in *Journal of Wildlife Management* 79.4 (2015): 641-646. A considerable amount of money is spent trying to increase pheasant populations in Pennsylvania. We found that those conservation efforts may slow declines in pheasant numbers, but aren’t enough to stop declines from happening.

Wilson, with Yntze van der Hoek, Rosalind Renfrew, Joan Walsh, Paul G. Rodewald, Jennifer Baldy and Lisa L. Manne, published “Regional Variability in Extinction Thresholds for Forest Birds in the North-Eastern United States: An Examination of Potential Drivers Using Long-Term Breeding Bird Atlas Datasets” in *Diversity Distribution: A Journal of Conservation Biogeography* 21.6 (2015): 686-697. Andy Wilson worked with a PhD student at the City

University of New York to examine whether local bird extinction rates increase when forests are fragmented.

Leo Shingchi Yip, Associate Professor of East Asian Studies, published *China Reinterpreted: Staging the Other in Muromachi Noh Theater* (Lanham, MD: Lexington, 2016). This book examines the various images of China manifested in a group of Noh plays that feature Chinese characters. Applying various theories of Self and Other, this study analyzes the dramaturgy and sociopolitical implications involved in the interpretations of Chinese motifs in medieval Noh theater.

REVIEWS

Yasemin Akbaba, Associate Professor of Political Science, reviewed *Religion and Regimes: Support, Separation, and Opposition*, edited by Mehran Tamadonfar and Ted G. Jelen, in *Sociology of Religion* 76.2 (Summer 2015): 247-249.

Fritz Gaenslen, Associate Professor of Political Science, reviewed *The Cultural Logic of Politics in Mainland China and Taiwan*, by Tianjian Shi, in *Journal of Chinese Political Science* 21.3 (September 2016): 409-410. Despite rapid economic growth in China and accelerated democratization in Taiwan, the author finds in opinion surveys spanning 1993 to 2008 little change in the majority endorsement of Confucian norms concerning both self-interest and hierarchical authority.

Ian Isherwood, Visiting Assistant Professor of War and Memory Studies, Department of Civil War Era Studies, reviewed *A Slashing Man of Action: The Life of Lieutenant-General Sir Aylmer Hunter-Weston, MP*, by Elaine McFarland, in *Journal of Military History* 80.3 (July 2016): 908-909.

Isherwood reviewed *British Battle Planning in 1916 and the Battle of Fromelles: A Case Study of an Evolving Skill*, by Roger Lee, in *Journal of Military History* 80.2 (April 2016): 580-581.

Radost Rangelova, Associate Professor of Spanish, reviewed *Dream Nation: Puerto Rican Culture and the Fictions of Independence*, by María Acosta Cruz, in *Confluencia* 31.2 (Spring 2016): 214-216. This critical review focuses on Cruz's use of the concept of "fictions of independence" to analyze the relationship between Puerto Rican independence, history, and nostalgia.

Jack Ryan, Vice Provost and Dean of Arts and Humanities, reviewed *The Village: 400 Years of Beats and Bohemians, Radicals and Rogues: A History of Greenwich Village*, by John Strausbaugh, in *Journal of Beat Studies* 4 (2016): 92-99. Broken into four primary sections, Strausbaugh's sprawling history of Greenwich Village covers the beginning and the end of the most well-known neighborhood in New York City.

Ryan reviewed *Madness at the City Gates: The Myth of American Innocence*, by Berry Spector, in *Journal of American Studies of Turkey* 43 (2016): 101-103. Spector's book examines the American desire to suppress disorder, which, according to him, has created a soul-crushing culture that neglects the power of storytelling, particularly myths.

PROFESSIONAL PAPERS OR PRESENTATIONS

Yasemin Akbaba, Associate Professor of Political Science, with Ozgur Ozdamar, delivered a paper titled "Faith-Based Regional Leadership Role in the Middle East: Saudi Arabia and Turkey" at the 57th Annual Convention of the International Studies Association (ISA), Atlanta, GA, March 16-19, 2016. The paper examines faith-based role conceptions of Saudi Arabia and Turkey.

Rimvydas Baltaduonis, Associate Professor of Economics, presented a paper titled "Risk and Abnormal Returns in Markets for Financial Transmission Rights," co-authored with student colleagues **Nathan Blyler '13** and **James Myers '12**, at the 5th Annual Lithuanian Conference on Economic Research, Vilnius, Lithuania, June 30, 2016. The paper provides a framework to measure and analyze the risk and abnormal returns of the financial instruments known as financial transmission right (FTR) obligations. Better understanding of the patterns of risk and abnormal returns in FTR markets can save money to both energy suppliers and consumers as the demand for energy expands and the grids' infrastructure continues to age. Baltaduonis had earlier presented the paper at the 35th Annual Eastern Conference of the Center for Research in Regulated Industries at Rutgers, Shawnee on Delaware, PA, May 13, 2016.

Baltaduonis presented a paper titled "Abnormal Returns in Markets for Congestion Revenue Rights," co-authored with Sam Bonar, John Carnes and Erin Mastrangelo, at the Energy and Commodity Finance Conference, ESSEC Business School, Paris, France, June 23, 2016. This paper investigates the performance of the Congestion Revenue Rights (CRRs) markets by estimating and analyzing the presence of abnormal returns among these financial instruments. CRRs are defined between two locations on the power transmission grid, known as a path. These assets accrue their value based on the energy price differential at two ends of a path.

Baltaduonis delivered an invited presentation titled "Regulating Greenhouse Gas Emissions by an Intertemporal Policy Mix: An Experimental Investigation" for the Seminar Series of the Centre for Environmental and Resource Economics (CERE), Umeå University, Umeå, Sweden, June 21, 2016. The presentation discussed the performance of alternative regimes to control greenhouse gas emissions. The main focus was on the effects of a staged transition from a tax regime to a permit trading regime, which was recently attempted in Australia, relative to standard policy regimes such as a pure emissions tax and a pure emissions permit trading.

Clinton Baugess, Research and Instruction Librarian, Musselman Library, with staff colleagues **Kathryn Martin, Cataloging and Collections Librarian, Musselman Library; Katherine Mattson, Associate Director of Career Planning, Center for Career Development;** and **Qin Zhang, Assistant Director of Institutional Analysis, Institutional Analysis Office**, presented a poster titled “Undergraduate Library Internships and Professional Success” at the ALA (American Library Association) Annual Conference and Exhibition, Orlando, FL, June 23-28, 2016. This poster reports on a newly completed assessment of former undergraduate library interns which explored the impact their internship had on the development of career goals, acceptance to and preparation for graduate education, and early professional employment.

Kathy Berenson, Assistant Professor of Psychology, with student co-author **Olga Nynas '16**, presented a poster titled “Attributions for Rejection and Acceptance in Young Adults with Borderline and Avoidant Personality Features” at the annual convention of the North American Association for the Study of Personality Disorders, New York, NY, April 16-17, 2016. This research identified specific types of maladaptive interpersonal attributions associated with symptoms of borderline personality disorder and depression.

Temma Berg, Professor of English and Women, Gender, and Sexuality Studies, delivered a lecture titled “The Business of Coquetting” at the Brontë Society Bicentenary Conference, Manchester, England, August 20, 2016. Her paper considers the complex and contradictory representations of flirting in Charlotte Brontë’s novels, and concludes that writing—a game of revealing and concealing, of opening and closing off possibilities, of piquing a reader’s interest and toying with expectations—is, after all, not that different from coquetting.

Felicia Else, Associate Professor and Chair, Department of Art and Art History, presented a paper titled “A Genoese Neptune in Florence: A New Source for Vincenzo Borghini’s 1565 Entrata Design” at the Sixteenth Century Studies Conference, Bruges, Belgium, August 18-20, 2016. This paper explores the decorations of a maritime-themed arch erected for the entry of Johanna of Austria into Florence in 1565. Attention is brought to a sketch of Neptune made for this arch by Vincenzo Borghini, and to how it reflects an earlier composition by Perino del Vaga for the Palazzo Principe of renowned naval commander Andrea Doria in Genoa.

Nathalie Goubet, Professor of Psychology, with **Daniel McCall, Associate Professor of Psychology**, and student co-authors **Kira Mason '16, Olga Nyna '16** and **Alexandra Kowker '16**, presented a poster titled “Odor-Shape Cross-Modal Associations: A Developmental Trajectory” at the 38th Annual Meeting of the Association for Chemoreception Senses (AChemS), Bonita Springs, FL, April 20-23, 2016. This work presents evidence that the ability to associate odors with abstract shapes develops over time based on the meta-cognition of odors.

Brent Harger, Assistant Professor of Sociology, presented a paper titled “Microaggressions in School: Applying Lessons from Microaggression Research to Peer Interactions” at the Annual Meeting of the American Sociological Association, Seattle, WA,

August 20-23, 2016. This paper examines peer interactions among fifth-graders through the lens of microaggressions, highlighting the insights provided by microaggression research and expanding its focus to include those who are marginalized in schools as a result of differences other than race, gender and sexuality.

Susan Hochmiller, Assistant Professor of Voice and Coordinator of Vocal Studies, Sunderman Conservatory of Music, presented an invited poster titled “The Pedagogical Advantages of Integrating Art Song Duets, Trios, and Quartets into the Applied Voice Lesson Curriculum” at the National Association of Teachers of Singing (NATS) 54th National Conference, Chicago, IL, July 8-12, 2016. Based on research conducted in March-April 2016, the poster demonstrated the ways in which vocal chamber music can be used in the applied voice lesson curriculum to strengthen vocal technique, musicianship and collaborative awareness in singers.

Hochmiller, with **Scott F. Crowne, Collaborative Accompanist and Adjunct Instructor of Piano, Sunderman Conservatory of Music**, gave a master class at the Classical Singer National Convention, Boston, MA, May 28, 2016. Participants received instruction on vocal technique, diction and artistry.

Ian Isherwood, Visiting Assistant Professor of War and Memory Studies, participated in a panel discussion titled “Lessons Learned by the U.S. Military from the Civil War” at the 2016 Civil War Institute Summer Conference, Gettysburg College, Gettysburg, PA, June 17-22, 2016. The presentation was on changes in military thinking and doctrine in the period between the American Civil War and the Great War. The panel was filmed by C-Span.

Alvaro Kaempfer, Associate Professor of Spanish and Latin American, Caribbean and Latino Studies, and currently **Chair of Globalization Studies**, presented a lecture titled “Baldomero Lillo, y las estéticas naturalistas de lectura del mundo popular en torno al Centenario” at the XLI Congreso del International Institute of Ibero-American Literature (IILI), Friedrich Schiller University Jena, Thuringia, Germany, July 19-22, 2016. Professor Kaempfer focused on the cultural and social impact of mining under inhumane conditions by the end of the XIX Century in the Andes, as it was seen by writer Baldomero Lillo during the Centennial Celebrations of Latin-American independences around 1910.

Kaempfer presented a paper titled “Ensayo, literatura y Globalizacion en Antonio Candido y Ángel Rama” to the Eighth International Congress of the Consejo Europeo de Investigaciones Sociales de América Latina. The CEISAL (European Council of Research on Latin America) Congress was hosted by the University of Salamanca, Salamanca, Spain, June 28-July 2, 2016. Ángel Rama and Antonio Candido have been two of the most important cultural critics in Latin America, putting forward a theoretical effort to understand Latin American cultural production in the context of global transformations from the nineteenth century to the twentieth. This presentation focused particularly on the elaboration of interdisciplinary critical and analytical tools in order to understand regional and national literatures within twentieth-century global imaginaries.

Kaempfer presented a paper titled “Chile 1811-1833: Ciudadanías y ficciones constitucionales” at the Latin American Studies Association (LASA) International Conference, New York, NY, May 27-30, 2016. Professor Kaempfer’s presentation focused on the characterization of the figure of the citizen in the drafts and documented discussion among at least three different factions in the Gran Convención (1831-1833) that led to this title in the second-longest XIX Century Constitution in the Americas.

Ryan Kerney, Assistant Professor of Biology, with student co-authors **Huanjia Zhang ’17** and **Elizabeth Hill ’17**, presented “It Takes Two to Tango: Host-Symbiont Fidelity in Salamander Algal Endosymbioses” at the Eighth World Congress of Herpetology, Hangzhou, China, August 24, 2016. Prof. Kerney and his students presented multiple talks and posters at the Congress. Their trip included networking with Kerney’s current and past collaborators from North America, Europe, and Sri Lanka, as well as meeting Huanjia’s family in Yantai for an amazing banquet dinner.

Betsy Lavolette, Director of the Language Resource Center, presented an invited keynote address titled “Aim High (Tech): Technology in the Language Classroom” at the 6th TESOL/Applied Linguistics/Foreign Languages Conference, West Chester University, West Chester, PA, April 16, 2016.

Lavolette, with Erica Coffelt, Dianna Lippincott and Sandy Wagner, gave an invited presentation titled “Google and Beyond: A Collaborative Commentary on Tech Resources for Language Learning” at the TESOL 2016 International Convention & English Language Expo, Baltimore, MD, April 8, 2016. The presentation focused on the CLEAR Rich Internet Applications for language teaching.

Daniel McCall, Associate Professor of Psychology, with student co-authors **Alexandra Casella ’17**, **Selah Kwak ’16** and **Joshua Rubinstein ’16**, presented a poster titled “Stability of Cross-Modal Associations between Odors, Colors, and Abstract Visual Forms” at the 38th Annual Meeting of the Association for Chemoreception Sciences (AChemS), Bonita Springs, FL, April 20-23, 2016. This study examined how positive and negative odors evoke associations with visual images, and how these associations change over time.

Todd Neller, Professor of Computer Science, presented a paper titled “Monte Carlo Approaches to Parameterized Poker Squares” at the 9th International Conference on Computers and Games (CG2016), Leiden University, Leiden, the Netherlands, June 29, 2016. The paper, co-authored with student colleagues **Zuozhi Yang ’17** and **Colin M. Messinger ’17**, summarized a variety of Monte Carlo approaches employed in the top three performing entries to the Parameterized Poker Squares NSG Challenge competition. In all cases, AI players benefited from real-time machine learning and various Monte Carlo game-tree search techniques.

Neller, with Laura E. Brown, presented “An Introduction to k-Means Clustering” as a Model AI Assignment at EAAI-2016: The Sixth Symposium on Educational Advances in Artificial Intelligence (collocated with AAAI-16), Phoenix, AZ, February 13-14, 2016. These peer-reviewed, open-access curricular materials include exercises adaptable to Matlab or its

free-and-open-source-software (FOSS) Octave alternative, a FOSS Weka data mining tool clustering tutorial, test data sets, guided implementation exercises, PowerPoint slides, an index to recommended online and textbook resources, and a notation guide they created to show the relationship between diverse notations in diverse sources. To date, this is the most comprehensive resource collection available on the most popular clustering algorithm. An abstract was published in *Proceedings of the Sixth Symposium on Education Advances in Artificial Intelligence (EAAI-16)* (2016).

Radost Rangelova, Associate Professor of Spanish, delivered a paper titled “Masculinity, Violence and Urban Space in the New Puerto Rican Noir Literature” at the XXXIV International Congress of the Latin American Studies Association, New York, NY, May 27-30, 2016. The paper analyzes a set of novels that compose an emerging genre of Puerto Rican noir fiction, and argues that these novels challenge the construction of masculinity and its relationship to urban violence and to the Puerto Rican nation in contemporary cultural production.

Megan Adamson Sijapati, Associate Professor of Religious Studies, presented a paper titled “Mapping the Hazratbal Shrine of Kashmir: Expressions of Muslim Affiliation and Community” at the Fourth Annual Himalayan Studies Conference, University of Texas, Austin, TX, February 26, 2016. This paper focused on the politics of body and space embedded in the Hazratbal mosque and shrine in Kashmir (India), and suggested that the shrine can be seen as an index of Kashmiri religious identity politics and engagements with Islam at times of political turmoil in the late twentieth and early twenty-first centuries.

Sijapati presented an invited paper titled “Situating Nepal in Muslim South Asia: Key Themes and Questions,” as part of the South Asian Muslim Studies Association pre-conference at the 44th Annual South Asia Studies Conference, Madison, WI, October 22, 2015. In this paper, I discussed the varying ways that Nepal is part of Islamic South Asia.

Sijapati, as Orr Forum Guest Speaker, presented an invited paper titled “Jihadism and the Modern Apocalyptic” at Wilson College, Chambersburg, PA, February 23, 2016. This paper discussed how the landscape of twenty-first century jihadist movements cannot be understood apart from the heterogeneous and competing Salafi and Wahhabi movements of nineteenth and twentieth century Islam.

Carolyn Snively, Professor of Classics, presented a paper titled “Late Antiquity in the Province of Dardania: The Site of Golemo Gradište at Konjuh and its Churches” at the 23rd International Congress of Byzantine Studies, Belgrade, Yugoslavia, August 22-27, 2016. This presentation detailed excavation carried out at the site of Golemo Gradište since the last Congress of Byzantine Studies, held five years ago.

Donald Tannenbaum, Associate Professor of Political Science, delivered a paper titled “Interrogating the Holocaust: Challenges for Teachers and Scholars” at the summer meeting of the National Social Science Association, Denver, CO, August 3, 2016. The paper, part of a panel on “History and Society,” discussed some of the difficulties in conceptualizing the

Holocaust, including how a highly-civilized nation became the prime mover in executing the Holocaust, and the enabling role of selected terminology.

Dhadesugoor R. Vaman, Adjunct Assistant Professor of Computer Science, delivered an invited talk titled “Secret behind College Selection for Excelling in Education” at the JSS Spiritual Mission Auditorium, Gaithersburg, MD, August 21, 2016. The presentation covered types of colleges and universities; how a student fits in the college; how to select a program; how to participate in class; and development of discipline in studies and ethics. It was well-received by a large group of students and their parents.

DIGITAL PROJECTS

Charles Kann, Adjunct Professor of Computer Science, posted an article titled “Microsoft Excel Time Line” at chuckkann.com (May 31, 2016). The article shows how to implement time lines in Microsoft Excel in a way that could be used in middle or high school class. This article has been downloaded over 200 times in three months.

Kann, with student colleagues **Amrit Dhakal '17** and **Yulin Zhu '18**, created “Map Picture Overlay,” a website that allows a user to place a map picture over a geographic information system (GIS) map.

Kann, with student colleague **John Duncan '17**, created “Gettysburg Monuments Map,” a website and mobile application for finding monuments on the Gettysburg Battlefield.

PROFESSIONAL DISTINCTIONS AND AWARDS

Koren Lipsett, Professor of Chemistry, with colleagues Barbara C. Levin, Kristian Helmersen, Rani B. Kishore and Joseph E. Reiner, was awarded United States Patent 9217740 B2, “Isolation and Characterization of a Single Mitochondrion,” on December 22, 2015. We developed a method to systematically break open, trap, and isolate single mitochondria from a human cell line using laser-based “optical tweezers.” Our research focused on determining the distribution of mitochondrial DNA within single mitochondria to help us understand the evolution of mitochondrial-based genetic diseases. The method that we developed was subsequently patented. This is the first patent issued to Gettysburg College.

PROFESSIONAL OR CREATIVE ACTIVITY

Yasemin Akbaba, Associate Professor of Political Science, served as chair and discussant of a panel titled “Empirical Cross-National Approaches to Religion and Secularism in IR” at the 57th Annual Convention of the International Studies Association (ISA), Atlanta, GA, March 16-19, 2016.

Akbaba served as chair of a panel titled “Domestic Threats or Disadvantaged Minorities? Treatment of Religious, Sectarian and Ethnic Minorities in the Middle East” at the 57th Annual Convention of the International Studies Association (ISA), Atlanta, GA, March 16-19, 2016.

Susan A. Hochmiller, Assistant Professor of Voice and Coordinator of Vocal Studies, Sunderman Conservatory of Music, served as director of Orvieto Musica’s Art of Song vocal chamber music festival, Orieto, Italy, June 12-July1, 2016. This was Prof. Hochmiller’s fourth consecutive summer as director of the festival. She also performed in a faculty recital at Palazzo Coelli, with two recent Gettysburg College graduates as festival participants.

Betsy Lavolette, Director of the Language Resource Center, led a workshop titled “Engaging ELs Using Digital Tools” at the Chester County Intermediate Unit ELL Symposium, “Exemplary Practices for Exceptional Learning,” Downingtown, PA, August 10-11, 2016. This invited training for K-12 teachers of English learners in the state of Pennsylvania consisted of a half-day workshop and a half-day of break-out sessions.

Lavolette led a three-day invited workshop for language teachers titled “Teaching Language with Technology: Basic Tools and Techniques” at the Center for Language Education and Research, East Lansing, MI, July 18-20, 2016.

Lavolette led a full-day invited workshop for Japanese language teachers titled “The Power of Input, Fun, and Games” at the conference of the Japanese Teachers Association of Michigan (JTAM), Michigan State University, East Lansing, MI, May 14, 2016.

Lavolette, with Ayman Mohamed, led an invited half-day workshop for Arabic language teachers titled “Practical Tech Tools for Arabic Language Teachers” at the Computer Assisted Language Instruction Consortium, East Lansing, MI, May 10-14, 2016.

Lavolette organized and hosted the 2016 Northeast Association for Language Learning Technology (NEALLT) Conference, Gettysburg College, Gettysburg, PA, March 18-20, 2016.

Devin McKinney, Archives Assistant, Musselman Library, gave an invited presentation titled “Jesusmania: The Bootleg *Superstar* of Gettysburg College” in Mara Auditorium, June 4, 2016. The presentation, about an unauthorized performance of *Jesus Christ Superstar* staged in Christ Chapel in 1971, was followed by a panel with several of the original performers. McKinney also curated a Special Collections exhibit, “1967-1971: The College, the Culture, and *Jesus Christ Superstar*,” for Reunion Weekend.

Todd Neller, Professor of Computer Science, gave a seminar titled “Faith and Finance” for the Gettysburg College DiscipleMakers Christian Fellowship (DCF) at his home on April 2, 2016. The seminar covered scriptures concerning money, basic concepts of financial literacy, and a Christian perspective on investing.

Neller served as chair of the Sixth Symposium on Educational Advances in Artificial Intelligence (EAAI-16), Phoenix, AZ, February 13-14, 2016. Neller has continuously served on the organizing committee since EAAI's inception in 2010. It has grown to become the prime venue for presentation of material concerning Artificial Intelligence education. In 2016, the symposium—collocated with AAAI, the prime Artificial Intelligence conference in this hemisphere—attracted over 90 attendees.

Neller presented “An Introduction to Interactive Fiction” to the Gettysburg College Game Club on February 2, 2016. Following an introduction to the computer game genre, its history and related genres, the talk transitioned to group play of representative modern examples of interactive fiction, a form of nonlinear fiction in which the reader/player interacts with the fictional world via text interface to take part in a story that often contains puzzles whose solutions advance the story.

Neller was appointed to the Executive Council Committee on Education of the Association for the Advancement of Artificial Intelligence (AAAI) on October 22, 2015. AAAI is the largest professional society for Artificial Intelligence (AI), and the committee is charged with launching new initiatives to advance AI education.

Neller presented “A Sampling of Card Games” to the Gettysburg College Game Club on October 7, 2015. The talk surveyed different taxonomies of card games, and shared representatives of each major family, leading to much good card play late into the evening.

Neller gave a seminar on time management titled “Getting Things Done for the Glory of God” for the Gettysburg College DiscipleMakers Christian Fellowship (DCF) at his home on September 26, 2015. The seminar covered a fusion of David Allen's *Getting Things Done*; Covey, Merrill and Merrill's *First Things First*; and Matt Perman's *What's Best Next* books on time management, with a view to being a good steward of time and effort for the glory of God.

Neller organized and ran the inaugural EAAI NSG Challenge, an undergraduate research competition involving seven faculty-mentored undergraduate research teams from six institutions in the US and Canada. This contest aims to provide undergraduates with high-quality, mentored research experiences including full double-blind peer review and potential publication of work at AAAI, the prime Artificial Intelligence conference in this hemisphere.

Neller led or assisted Hour of Code sessions for over 170 local students from Migrant Education, Gettysburg Area Middle School, and Franklin Township Elementary School. In 2015, we joined tens of millions of students worldwide in sharing a fun, hands-on introduction to the basic concepts of programming or “coding.”

Megan Adamson Sijapati, Associate Professor of Religious Studies, was respondent for a research paper panel titled “Secularism in the Himalayas: Its Content and Consequences” at the Fourth Annual Himalayan Studies Conference, University of Texas, Austin, TX, February 26, 2016. This cross-disciplinary double panel probed the multiple meanings that

have been appended to the term “secularism,” and considered the effects of these ideas in social and political life in the Himalaya.