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### Recommended Citation

Bridgewater College, "Faculty Scholarship Bulletin Spring 2021" (2021). *Faculty Scholarship Bulletin*. 1.  
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# BC Research and Scholarship

A SHOWCASE OF THE RESEARCH AND SCHOLARSHIP OF BC FACULTY

## Spring 2021

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**Mahan Ellison**

Fulbright Senior Scholar Award

From May to August Mahan will be a visiting scholar/teacher at Ibn Zohr University in Agadir, Morocco, where he will work with students and interview Hispanophone Moroccan authors as he prepares a book on ecocriticism in Hispanophone Moroccan literature. From August to December, he will be a visiting scholar/teacher in the department of Arabic and Islamic studies at the Autonomous University of Madrid. In Madrid, he will continue his research in the archives and develop his manuscript.



**Martin Kalb**

Kalb, M. (2020). The dowsing debate: Water, science, and colonialism in German Southwest Africa. *German History*, 38(4), 568-593.

<https://doi.org/10.1093/gerhis/ghaa084>

(peer-reviewed article)

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**Ryan Keebaugh**

American Choral Directors Association National Conference

March 18-20, 2021

Selected as a guest composer for the 2021 ACDA Composer Exhibition / Meet the Artists Series with MusicSpoke, Inc. Selected choral compositions were also a part of the National Conference Reading Sessions presented on March 19th.

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**Nancy Klancher**

Klancher, N. (2020). Conceiving the elect: The Virgin, the matriarchs, and the God of the womb. In T.S. Ferda, D. Frayer-Griggs, and N.C. Johnson (Eds.), *"To recover what has been lost": Essays on eschatology, intertextuality, and reception history in honor of Dale C. Allison Jr.* Leiden, Boston: Brill Publishers.

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**Ian McNeil**

Mitchell, C. S., Perkins, G. M., & McNeil, I. J. (2021). Intermittent light studies to investigate electron mobility in dye-sensitized solar cells. *Solar Energy*, 213, 36-42.  
<https://doi.org/10.1016/j.solener.2020.11.014>  
(peer-reviewed article)

This article is the result of work with two recent graduates (Gabrielle Perkins, class of 2020, and Cheyenne Mitchell, class of 2019) that studies electron mobility kinetics in dye-sensitized solar cells which are a low-cost alternative to traditional silicon solar cells. For this paper the authors constructed working solar cells using TiO<sub>2</sub> (the white pigment found in white-out) and a dye molecule found in raspberry juice. They measured the photocurrent from these devices while switching the light source on and off. From the

results of fitting the data, they were able to support an electron hopping model where electrons in the devices need to move through a dispersive energetic landscape and electrons can become trapped in the device for seconds after the light is turned off.

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**Erin Miller**

Dixon, D. D., Peters, S. J., Makel, M. C., Jolly, J. L., Matthews, M. S., Miller, E. M., ... Wilson, H. E. (2020). A call to reframe gifted education as maximizing learning. *Phi Delta Kappan*, 102(4), 22–25. <https://doi.org/10.1177/0031721720978057> (peer-reviewed article)

Miller, E. M. & Clinkenbeard, P. (2020). The neural bases of giftedness. In J. A. Plucker and C. M. Callahan (Eds.), *Critical Issues and Practices in Gifted Education: What the Research Says*, 3<sup>rd</sup> ed. Prufrock Press. (peer-reviewed chapter)

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**Kevin Pallister**

Pallister, K. (forthcoming). Digital caudillos: The use of social media in Guatemala presidential campaigns. *Journal of Politics in Latin America*. (peer-reviewed article)

This paper presents the results of a content analysis of more than 2,000 Facebook posts from candidates in Guatemala's 2019 presidential election. The data show that presidential campaigns use Facebook to mention issues of concern to voters, but offer few policy proposals. They also rarely attack other candidates or tout their own qualifications for the presidency. The data also reveal systematic differences in campaign messaging between frontrunner and long-shot candidates.