

Natural Sciences Summer 2016 Undergraduate Research Program

MENTOR **Department**

Peer-Reviewed Journal Articles Recently Published, Pending Publication, Being Written

* indicates previous undergraduate student-researcher

Dr Adam C. Glass *Chemistry*

Glass, A. C.; Caspary, K.*; Rude, C.*; Fordice, J.*; Olefination of 3-phenyl-1H-indene to Benzofulvene; (1E)-1-(3-chlorobenzylidene)-3-phenyl-1H-indene, 2015, ChemSpider Synthetic Pages, Synthetic Page 779, DOI: 10.1039/SP779

Glass, A. C.; Cargill, M.*; Olefination of 3-phenylindene; Benzofulvene Dimer, 2015, ChemSpider Synthetic Pages, Synthetic Page 778, DOI: 10.1039/SP778

Glass, A. C.; Mayther, M.*; Nehrenberg, D.*; Huff, D.*; Nucleophilic Aromatic Substitution of 5-fluoro-1-indanone, 2014, ChemSpider Synthetic Pages, Synthetic Page 738, DOI: 10.1039/SP738

Dr Rosemarie C. Haberle *Biology*

Crowl, A.A., N. W. Miles, H-H. Wu, C. J. Visger, K. Hansen, T. Ayers, R. Haberle, N. Cellinese. (2016) A global perspective on Campanulaceae: biogeographic, genomic, and floral evolution. *Amer.J.Bot.* 103 (2): 1 – 13.

L.Zhao, X-W. Jiang, Y-j Zuo; X-l Liu, S-W Chin, R Haberle, D. Potter, Z.-y.Chang, J.Wen. (2016) Multiple events of allopolyploidy in the evolution of the racemose lineages in *Prunus* (Rosaceae) based on integrated evidence from nuclear and plastid data. *PLoS ONE* (accepted with minor revision).

Crowl, A.A., E. Mavrodiev, G. Mansion, R.C. Haberle, A. Pistarino, G. Kamari, D.Phitos, T. Borsch, & N. Cellinese. 2014. Phylogeny of Campanuloideae (Campanulaceae) with emphasis on the utility of nuclear pentatricopeptide repeat (PPR) genes. *PLoS ONE* 9(4): e94199. doi:10.1371/journal.pone.0094199

Chin, S. -W., J. Shaw, R.C. Haberle, J. Wen, & D. Potter. 2014. Diversification of almonds, peach, plums and cherries – molecular systematics and biogeography of *Prunus* (Rosaceae). *Mol. Phyl. Evol.* 76: 34-48.

Dr Katrina M. Hay & Dr Sean M. O'Neill *Physics*

- Katrina Hay, "Teaching the Physics of Energy while Traveling by Train," *Phys. Teach.* 51 (Feb. 2013).
- Matthew Hubbard* and Katrina Hay, "How Tongue Size and Roughness Affect Lapping," *J. Under. Res. Phys.* 27 (Mar 2013).
- Katrina Hay, "Physics of Energy: A Sustainability-Themed University Travel Course," (book chapter in) *Handbook of Research on Pedagogical Innovations for Sustainable Development* (IGI Global, USA, 2014), pp. 442-453.
- Greg Salvesen, Kris Beckwith, Jacob B. Simon, Sean M. O'Neill, Mitchell C. Begelman, "Quantifying energetics and dissipation in magnetohydrodynamic turbulence," *Monthly Notices of the Royal Astronomical Society* 438, pp. 1355-1376 (Feb 2014).

Dr Alex R. Lechler *Geosciences*

Huntington, KW, and Lechler, AR, 2015, Carbonate clumped isotope thermometry in continental tectonics, *Tectonophysics*, v. 647-648, p. 1-20.

S. Jasechko, A. Lechler, F. S. R. Pausata, P. J. Fawcett, T. Gleeson, D.I. Cendón, J. Galewsky, A. N. LeGrande, C. Risi, Z. D. Sharp, J. M. Welker, M. Werner, and K. Yoshimura, 2015, Glacial–interglacial shifts in global and regional precipitation $\delta^{18}\text{O}$, *Climate of the Past Discussions*, v. 11, p. 831-872.

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Dr Justin C. Lytle Chemistry

Published:

Lytle et al., "Carbon Ductwork with Nanometric Walls and Micron-to-Submicron Inner Diameters" ECS Journal of Solid State Science and Technology, 2013, 2, M3078.

Submitted:

Lytle et al. "A Method to Prepare Carbon Inverse Opal Papers Using Carbon Fiber Sheets as a Framework" (submitted October 2015 to the Journal of Materials Chemistry A...in peer-review). *I have previously submitted a version of this manuscript to the Journal of Materials Chemistry A in 2013 and to Chemistry of Materials in 2013.*

Dr Shannon B. Seidel Biology

Peer-reviewed research article:

Seidel, S. B., Reggi, A. L.*, Schinske, J. N., Burrus, L. W., & Tanner, K. D. (2015). Beyond the Biology: A Systematic Investigation of Noncontent Instructor Talk in an Introductory Biology Course. CBE-Life Sciences Education, 14(4), ar43. ***Note: *The second author (Reggi AL) of the above paper was an undergraduate biology student that I directly mentored as a postdoctoral fellow.*

Editor-reviewed journal article:

Seidel, S. B., & Tanner, K. D. (2013). "What if students revolt?"—Considering Student Resistance: Origins, Options, and Opportunities for Investigation. CBE-Life Sciences Education, 12(4), 586-595. ***Note: *This publication is currently the 8th most-read publication in CBE-Life Science Education over the course of the last year.*

Dr Dean A. Waldow Chemistry

ACS Nano Published...

Cox, P. A.; Waldow, D. A.; Dupper, T. J.; Jesse, S.; Ginger, D. S. Mapping Nanoscale Variations in Photochemical Damage of Polymer/Fullerene Solar Cells with Dissipation Imaging. ACS Nano 2013, 7(11), 10405-10413.

Dr Neal A. Yakelis Chemistry

Peterson., G. I.*; Church, D. C.; Yakelis, N. A.; Boydston, A. J. 1,2-Oxazine Linker as a Thermal Trigger for Self-Immolative Polymers. Polymer 2014, 55, 5980-5985

Boydston, A. J.; Yakelis, N. A.; Berenson, R.; Peterson, G. I.* (Univ. of Washington and Pacific Lutheran University) Thermally-Activated Self-Immolative Materials. 46136.02WO2, patent application filed December 9, 2013

In preparation:

Provisional Patent: Boydston, A. J.; Yakelis, N. A.;