



ACS
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254th ACS National Meeting • Washington, DC 2017 WCC Merck Research Award Symposium

Sunday, August 20, 2017 • 8:25 am–12:00 pm
Marriott Marquis Washington DC, Catholic University



Cosponsored by BIOL, COMP, MEDI, ORGN, PMSE, PROF and MPPG
Amy M. Balija, *Organizer, Presiding* • Rebecca Ruck, *Presiding*

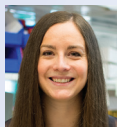
8:25 am **Introductory Remarks**

8:30 am **Creating binary Cu-Bi compounds at high pressure**



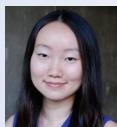
Samantha M. Clarke, M. Amsler, J. Walsh, T. Yu, Y. Wang, S. D. Jacobsen, C. Wolverton, D. E. Freedman
Northwestern University

8:50 am **Acetalated dextran nanoparticles for rapid and glucose responsive insulin delivery**



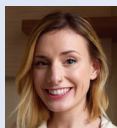
Lisa R. Volpatti, M. Matranga, D. G. Anderson
Massachusetts Institute of Technology

9:10 am **Atomically precise, tunable organomimetic cluster nanomolecules (OCNs)**



Elaine A. Qian, J. Logan, M. Kirolos, A. I. Wixtrom, J. Axtell, A. Saebi, D. Jung, P. Rehak, Y. Han, E. H. Mouly, D. Mosallaei, S. Chow, M. Messina, J. Y. Wang, A. T. Royappa, A. L. Rheingold, H. D. Maynard, P. Kral, A. M. Spokoyny
University of California, Los Angeles

9:30 am **Control factors involved in abietadiene synthesis: A biosynthetic reaction containing a post-transition state bifurcation**



Stephanie R. Hare, A. Escorcia, D. Tantillo, W. Thiel
University of California, Davis

9:50 am **Improving force field parameterization with Bayesian inference for chemical perception**



Caitlin C. Bannan, C. Zanette, C. I. Bayly, J. Fass, M. K. Gilson, M. R. Shirts, J. D. Chodera, D. L. Mobley
University of California, Irvine

10:10 am **Intermission**

10:20 am **Soluble guanylate cyclase stimulators for cardiovascular disease**



Subharkha Raghavan
Merck & Co., Inc.

11:00 am **Development and synthetic application of arenophile-mediated dihydroxylation reactions**



Emma H. Southgate, J. Pospech, J. Fu, D. Holycross, D. Sarlah
University of Illinois, Urbana-Champaign

11:20 am **Advances in regioselective additions to pi systems**



Hilary A. Kerchner, J. Montgomery
University of Michigan

11:40 am **Recent developments in stereoselective iridium-catalyzed allylic alkylation methodologies**



Samantha E. Shockley, C. Hethcox, B. M. Stoltz
California Institute of Technology

12:00 pm **Concluding Remarks**



Merck is acknowledged for its support of the WCC Merck Research Awards program

WCC Chair: Laura Sremaniak
North Carolina State University

WCC Awards & Recognition Subcommittee Co-Chairs
Amy Nicely, *Parkland College*
Christine Chow, *Wayne State University*