***Biographical Sketch for Gary F. Moore***

# Education and Training:

B.S., Chemistry, The Evergreen State College, 2004

Ph.D., Chemistry and Biochemistry, Arizona State University, 2009

Camille and Henry Dreyfus Foundation Postdoctoral Fellow, Yale University, 2009 – 2011

**Research and Professional Experience**:

Assistant Professor, Arizona State University, 2014 – present

Principal Investigator and Staff Scientist, Berkeley Lab, 2011 – 2014

**Selected Honors and Awards:**

National Science Foundation CAREER Award, 2017

Julie Anne Wrigley Global Institute for Sustainability Scholar, 2017

Yale Edwin A. Bouchet Honor Society Fellow, 2011– present

Camille and Henry Dreyfus Foundation Energy Fellow, 2009 – 2011

Achievement Rewards for College Scientist (ARCS) Foundation Scholar, 2008 – 2009

Renewable Energy: Solar Fuels Gordon Research Conference Young Investigator Award, 2009

Electron Donor Acceptor Gordon Research Conference Young Investigator Award, 2008

Photosynthesis Gordon Research Conference Young Investigator Award, 2008

Carl Storm Underrepresented Minority Fellow, 2006

Alliance for Graduate Education and Professoriate Fellow, 2006 – 2009

National Science Foundation Fellow, 2004 – 2009

**Ten Selected Publications:**

1. “Cobalt Porphyrin-polypyridyl Surface Coatings for Improved Photoelectrosynthetic Fuel Production”Anna M. Beiler, Diana Khusnutdinova, Brian L. Wadsworth, and Gary F. Moore, *Inorg. Chem.,* **2017,** *56*, 12178 – 12185.
2. “Metalloporphyrin-modified Semiconductors for Solar Fuel Production” Diana Khusnutdinova, Anna M. Beiler, Brian L. Wadsworth, Samuel I. Jacob, and Gary F. Moore, *Chem. Sci.*, **2017**, *8*, 253 – 259.
3. “Electrocatalytic and Optical Properties of Cobaloxime Catalysts Immobilized at a Surface-Grafted Polymer Interface” Brian L. Wadsworth, Anna M. Beiler, Diana Khusnutdinova, Samuel I. Jacob, and Gary F. Moore, *ACS Catal.,* **2017**, *6*, 8048 – 8057.
4. “Solar Hydrogen Production Using Molecular Catalysts Immobilized on Gallium Phosphide (111)A and (111)B Polymer-Modified Photocathodes” Anna M. Beiler, Diana Khusnutdinova, Samuel I. Jacob, and Gary F. Moore, *ACS Appl. Mater. Interfaces,* **2016**, *8*, 10038 – 10048.
5. “Chemistry at the Interface: Polymer-Functionalized GaP Semiconductors for Solar Hydrogen Production” Anna M. Beiler, Diana Khusnutdinova, Samuel I. Jacob, and Gary F. Moore, *Ind. Eng. Chem. Res.,* **2016**, *55*, 5306 – 5314.
6. "Photofunctional Construct That Interfaces Molecular Cobalt-Based Catalysts for H2 Production to a Visible-Light-Absorbing Semiconductor" Alexandra Krawicz, Jinhui Yang, Eitan Anzenberg, Junko Yano, Ian D. Sharp, and Gary. F. Moore, *J. Am. Chem. Soc*., **2013**, *135*, 11861 – 11868.
7. "Energy and Environment Policy Case for a Global Project on Artificial Photosynthesis" Thomas A. Faunce, Wolfgang Lubitz, A. W. (Bill) Rutherford, Peidong Yang, Daniel G. Nocera, Tom A. Moore, Duncan H. Gregory, Shunichi Fukuzumi, Kyung Byung Yoon, Fraser A. Armstrong, Michael R. Wasielewski and Stenbjorn Styring, *Energy Environ. Sci.,* **2013**, *6*, 695 – 698.
8. "Energy Conversion in Photosynthesis: A Paradigm for Solar Fuel Production," Gary F. Moore and Gary W. Brudvig, *Annu. Rev. Condens. Matter Phys.,* **2011**, *2*, 303 – 327.
9. “A Visible Light Water-Splitting Cell with a Photoanode Formed by Codeposition of a High-Potential Porphyrin and a Homogeneous Iridium Water-Oxidation Catalyst” Gary F. Moore, James D. Blakemore, Rebecca L. Milot, Jonathan F. Hull, Hee-uen Song, Lawrence Cai, Charles A. Schmuttenmaer, Robert H. Crabtree, and Gary W. Brudvig, *Energy Environ. Sci.,* **2011**, *4*, 2389 – 2892.
10. “A Bioinspired Construct that Mimics the Proton Coupled Electron Transfer between P680 and the TyrZ-His190 Pair of Photosystem II.” Gary F. Moore, Michael Hambourger, Miguel Gervaldo, Oleg G. Poluektov, Tijana Rajh, Devens Gust, Thomas A. Moore, and Ana. L. Moore, *J. Am. Chem. Soc.,* **2008**, *130*, 10466 – 10467.

**Synergistic Activities:**

* Mentor, 2015-Present, American Indian Science & Engineering Society (AISES)
* Invited Speaker, 2017 and 2015, Telluride Workshop on “Solar Solutions to Energy and Environmental Problems”; Panel Discussion Participant, 2016, Lorenz Center Workshop “Pathways to Solar Hydrogen Technologies”; Invited Lecturer, 2014, Royal Society Workshop: “Do We Need a Global Project on Artificial Photosynthesis”; Panel Discussion Participant, 2013, Berkeley Lab Film Screening of “Switch: Discover the Future of Energy”; Panel Speaker, 2011, Yale Climate and Energy Institute Public Talks: “Technology and our Emerging Energy Crisis”; Invited Speaker and Participant, 2010, NSF Division of Human Resource Development Joint Annual Meeting; Invited Speaker and Participant, 2010, MGE@MSA Second Annual Faculty Postdoctoral Mentoring Institute; Invited Speaker and Participant, 2009, International Center for Materials US-Argentina Workshop on Nanomaterials
* Grand Judge, 2016, Intel International Science & Engineering Fair
* Session Chair, 2015, ACS National Meeting ENV Division; Session Chair, 2014, Western Photosynthesis Conference; Session Chair, 2013, Western Photosynthesis Conference; Conference Chair, 2012, Photosynthesis Gordon Research Seminar
* Instructor, 2013, DOE Solar Fuels Energy Hub Summer Workshop on Solar Energy Conversion and Surface Science at Berkeley Lab