

BIOGRAPHICAL SKETCH



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Dr. Mario Eden is the Department Chair and Joe T. & Billie Carole McMillan Professor in the Department of Chemical Engineering at Auburn University. Dr. Eden is also the Director of an NSF-IGERT Program on Integrated Biorefining and the Acting Director of the Alabama Center for Paper and Bioresource Engineering. His main areas of expertise include process design, integration and optimization, as well as molecular synthesis and product design. His group focuses on the development of systematic methodologies for process and product synthesis, design, integration, and optimization.

Dr. Eden's research has generated 1 edited book, 107 refereed papers/book chapters and resulted in over 330 presentations at national/international meetings, including 49 invited lectures, e.g. the 2006 Danish Chemical Engineering Conference, the 2006 and 2012 AIChE Annual Meetings, the 2009 Process Systems Engineering Conference, the 2013 International Symposium on Sustainable Chemical Product and Process Engineering, the 2013 World Congress of Chemical Engineering, and the 24th and 25th European Symposium on Computer Aided Chemical Engineering. To support his research and educational activities, Dr. Eden has successfully secured over \$6.8M in extramural funding as PI, and an additional \$10.7M as co-PI from the National Science Foundation (NSF), Department of Energy (DOE), Department of Defense (DOD), Department of Education (DOEd), Environmental Protection Agency (EPA), Department of Agriculture (USDA), and industrial sponsors like Evonik-Degussa and Masada Resource Group.

Dr. Eden is the recipient of the National Science Foundation CAREER award (2006), the Auburn Engineering Alumni Council Junior Faculty Research Award (2006), the William F. Walker Superior Teaching Award (2007), the Fred H. Pumphrey Teaching Award for Excellence (2009 and 2011), the SGA Award for Outstanding Faculty Member in the Samuel Ginn College of Engineering (2009 and 2011), the Outstanding Faculty Member in the Department of Chemical Engineering (2009, 2011, 2013, and 2014), the Auburn Engineering Alumni Council Senior Faculty Research Award (2012), and the William F. Walker Merit Teaching Award (2014). As one of the founding members of Auburn University's Center for Bioenergy and Bioproducts, Dr. Eden and his collaborators received the AU President's Outstanding Collaborative Units Award (2012). At the 2009 Foundations of Computer Aided Process Design (FOCAPD), he was honored with the Best Faculty Contribution Award. Dr. Eden was selected to participate in the 2010 National Academy of Engineering Frontiers of Engineering Education Symposium. He was awarded the 2014 AIChE Computing and Systems Technology (CAST) Division Outstanding Young Researcher Award and recipient of the 2015-2016 Auburn University Creative Research and Scholarship Award (the highest recognition for research at Auburn University).

Dr. Eden received his M.Sc. (1999) and Ph.D. (2003) degrees from the Technical University of Denmark, both in Chemical Engineering. He has been an active member of the process systems engineering community for almost 15 years. Dr. Eden was recently elected Director of the CAST Division of AIChE and a Board of Trustee Member of Computer Aids for Chemical Engineering (CACHE) Corporation. Dr. Eden was also selected to co-chair the 2014 Foundations of Computer Aided Process Design (FOCAPD) conference. He serves on the editorial boards for Clean Technologies & Environmental Policy, Chemical Process & Product Modeling, and the Journal of Engineering; the International Peer Review College for the Danish Council for Strategic Research; the advisory board for the Computer Aided Process Engineering Center (CAPEC-PROCESS), and is a member of the International Energy Agency Annex IX on Energy Efficient Separation Systems.