

BIOGRAPHICAL SKETCH



Dr. Mario Richard Eden

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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 served for two years as the Acting Director of the Alabama Center for Paper and Bioresource Engineering and also directed the first-ever NSF-IGERT on Integrated Biorefining at Auburn University. 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 3 edited books, 156 refereed papers/book chapters and resulted in 420 conference presentations, including 74 invited lectures and seminars, e.g. the 2006 Danish Chemical Engineering Conference, the 2006 and 2012 AIChE Annual Meetings, the 2009 and 2015 Process Systems Engineering (PSE) Conference, the 2013, 2016, and 2019 International Symposium on Sustainable Chemical Product and Process Engineering (SCPPE), the 2013 World Congress of Chemical Engineering, the 24th, 25th, 27th and 29th European Symposium on Computer Aided Chemical Engineering (ESCAPE), and the 2019 International Symposium on the Foundations of Computer-Aided Process Design (FOCAPD 2019). To support his research and educational activities, Dr. Eden has successfully secured almost \$21.0M in extramural funding from the National Science Foundation, Department of Energy, Department of Defense, Department of Education, Environmental Protection Agency, Department of Agriculture, and industrial sponsors.

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 is the 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 20 years. Dr. Eden is currently the Chair (2020-2021) and has previously served as 1st Vice-Chair (2019-2020), 2nd Vice-Chair, (2018-2019) and Director of the Computing and Systems Technology Division of AIChE (2013-2017) and is in his 3rd term as a Trustee of Computer Aids for Chemical Engineering (CACHE) Corporation. Dr. Eden was selected to co-chair the 2014 FOCAPD conference and also co-chaired the 2018 Process Systems Engineering conference (PSE 2018). He currently serves on the editorial boards for Computers & Chemical Engineering, Process Integration & Optimization for Sustainability, Discovery Chemical Engineering, Chemical Process & Product Modeling, and the Journal of Engineering. He is a member of the International Peer Review College for the Danish Council for Strategic Research; and is a co-founder of the PSE for SPEED (Sustainable Product Process Engineering, Evaluation and Design) company.