INDIAN INSTITUTE OF CHEMICAL ENGINEERS

AMAR DYE-CHEM AWARD 2018

FOR

EXCELLENCE IN RESEARCH AND DEVELOPMENT
(Under the age of 35 Years)

Awarded to

Dr. Mohammad Ali Haider
Assistant Professor, Department of Chemical Engineering
Indian Institute of Technology, Delhi

CITATION

Born in 1983, Dr. Mohammad Ali Haider did his B.Tech (2006) in Biotechnology from IIT, Guwahati, followed by M.S. (2008) and Ph.D (2011) in Chemical Engineering, both from the University of Virginia, USA. With a highly commendable academic record throughout, Dr. Haider’s professional journey started in 2011 as a Post-doctoral Research Associate at the University of Virginia, USA. In May 2013, he joined IIT, Delhi as Assistant Professor and is continuing in that position presently. In between, Dr. Haider spent the year 2017 as a Visiting Scholar at the Catalysis Centre for Energy Innovations, University of Delaware, USA.

Dr. Haider’s area of research has primarily been focussed on conversion of biomass into high value fuels and chemicals. He has developed a unique technology, T₅₀, based on integrated bio- and chemo-catalytic reactions. It involves an innovative integration of fermentation and chemical catalytic processes, enabling conversion of biomass in fewer steps as compared to other available technologies while ensuring higher product yield in fuels and value-added chemicals, food grade flavours, etc. During the last four years, Dr. Haider has made significant contribution in developing ‘Renewable Energy and Chemicals’ while working with a group of doctoral and post-doctoral students.

He has several awards to his credit, including, Institution of Engineers (India) Young Engineers Award (2017-18); Bio-energy Awards for Cutting Edge Research Fellowship (2017), supported by Government of India and Indo-US Science and Technology Forum; Gandhian Young Technological Innovation Award (2018); Fulbright-Nehru Postdoctoral Fellowship (2014) from United States-India Educational Foundation, New Delhi; and, Second Best Presentation Award (Postdoctoral category) (2012) from NSF Engineering Research Centre for Biorenewable Chemicals, USA. He has filed for six patents in India. He also has an impressive number of papers to his credit, published as joint author in high impact international journals. He has jointly contributed four book chapters as well. Dr. Haider is a Member of several professional organisations, such as, Electrochemical Society, American Institute of Chemical Engineers, American Chemical Society and Royal Society of Chemistry.

In recognition of his admirable accomplishments in Chemical Engineering Research at a young age and encouraging prospects ahead, the Amar Dye-Chem Award for the year 2018 for Excellence in Research and Development is conferred on Dr. Mohammad Ali Haider.

Jalandhar
27 December 2018

V.K. Srivastava
President, IICChE