Chemistry Seminar

Dr. Huanyu Mao
Chairman and CEO
Suzhou Youlion Battery

Monday, August 5, 2019, 10:00 a.m. – 11:00 a.m.
Room C2004 (Chemistry/Physics Building)

Title: Lithium–Ion Batteries, From Handheld Devices to Highway Vehicles

Abstract:

The Li-ion battery is the most popular electrochemical system in the world. Its application is widely accepted for today’s smart phones, laptop computers, power tools, large scale energy storage systems and to power electric vehicles. Ongoing progress shows that energy storage in Li-ion batteries has the potential to replace fossil fuels to make our planet greener. This talk will include a brief history of Li-ion batteries, fundamentals of their electrochemistry, wider applications, battery manufacturing and future science & technical challenges.

Biography: Dr. Huanyu Mao earned his Ph.D. in Electrochemistry from Chemistry Department of Memorial University of Newfoundland in Canada. He joined Moli Energy in Vancouver in 1991 as a Research Scientist working in developing lithium-ion batteries. His patents of electrolyte additives in 1993 created Functional Electrolyte technology, that is widely used in today’s Li-ion battery industry. As a co-founder, Dr. Mao formed Tianjin Lishen Batteries in China in 1997. He jointed Shenzhen BAK battery (NSDQ: CBAK) in 2004 as CTO and COO. He founded Suzhou Youlion Battery in 2014 and is currently Chairman and CEO. He is a highly respected Li-ion battery scientist and engineer worldwide with over 100 patents and publications on Li-ion batteries.