



**Prof. Amit Basak, IIT Kharagpur**

**Title: Use of LDI-MS and Photo Cross-linking in Capturing Molecular Interactions**

Amit Basak obtained Ph.D. in natural product chemistry from Calcutta University (Prof S. K. Talapatra) and D. Phil. in penicillin biosynthesis from University of Oxford (Prof. Sir Jack Baldwin). He subsequently held postdoctoral position at the Johns Hopkins University prior to joining IIT Kharagpur in 1991. Earlier he had served Presidency College.

Professor Basak's research interests involve the development of artificial DNA and protein cleaving agents, in particular the enediynes and bis-propargyl sulfones, understanding the role of various weak interactions, such as electrostatic, hydrogen bond, field effects etc. on the kinetics of cycloaromatization processes. The synthetic applications of diradical generating reactions like Bergman and Garratt-Braverman Cyclizations as also the development of protein and small molecule capture agents are an active area of current research. Professor Basak has been the Leverhulme Visiting Professor at Chemistry Research Laboratory, Oxford for the year 2011—2012. He is a Fellow of Indian National Science Academy, National Academy of Sciences, Indian Academy of Sciences, Bangalore and West Bengal Academy of Science and Technology. He is also a recipient of the JC Bose National Fellowship, CRSI silver and bronze medals and Pfizer endowment lecture award (IISc, Bangalore) for his research contributions