



IISc. Alumni Association

Cordially invites you to the Awards Function

Prof. N. Appaji Rao - Best Mentor Award 2017

to

Prof. Yogendra Singh, University of New Delhi

&

Prof. S. K. Chatterjee Award 2017

to

Prof. Tulika Mitra, National University of Singapore

Prof. Anurag Kumar, Director, IISc & Patron, IIScAA will preside

Followed by :

Talk by Prof. Yogendra Singh on “Deriving Happiness from Academic Mentoring”

&

Talk by Prof. Tulika Mitra on “Behind the Scenes of The Internet of Things Revolution”

Tea : 5.30 p.m.

Date : Friday, September 1, 2017 ; Time : 4.00 p.m. ; Venue : Faculty Hall, IISc

ABSTRACT : Happiness is the most desired goal for all of us. While we get pleasure from various achievements, it does not last very long. However, if we help someone achieve a successful career, the joy is everlasting. While working in the area of infectious diseases, I got the chance to guide large number of students. As teachers, we are fortunate to get this opportunity. It is a great joy to see smiles on hundreds of faces and respect in their eyes nothing can be equivalent to that feeling.

SPEAKER : PROF. YOGENDRA SINGH



Prof. Yogendra Singh has mentored more than fifty Ph.D. students, and a large number of undergraduate and post-graduate students who are occupying high positions in and outside India and for his fundamental contributions as a scientist and researcher in the field of anthrax and tuberculosis.

Prof. Singh developed a recombinant vaccine for anthrax which has been commercialized. His current focus of research is to understand the biology and pathogenesis of *Mycobacterium tuberculosis* infection in extra-pulmonary and pulmonary tuberculosis.

Prof. Yogendra Singh is a recipient of several prestigious awards and recognitions which reflect his international standing in science and extraordinary depth of research contributions, including the J C Bose fellow of 2015, and Moselio Schaechter Distinguished Service Award of American Society for Microbiology 2014. He is also a fellow of the Indian National Science Academy, and of the National Academy of Sciences.

ABSTRACT: The Internet of Things (IoT), where physical objects or "things" embedded with computing power and sensors connect to the network for seamless cooperation between the cyber domain and the physical world, is poised to dramatically improve all aspects of our lives. By 2020, an estimated 50 billion IoT devices will empower mankind to collect, mine, and analyze astronomical amount of data towards information, knowledge, and real-time responses in various sectors from healthcare, transportation to agriculture, energy, manufacturing. In this talk, I will present the confluence of trends driving the IoT revolution from the computing perspective, discuss the current impediments thwarting its progress, and finally introduce the exciting technological advances that are expected to overcome these obstacles in realizing its full potential.

SPEAKER : PROF. TULIKA MITRA



Prof. Tulika Mitra is a Professor of Computer Science at School of Computing, National University of Singapore (NUS). She received her PhD in Computer Science from the State University of New York at Stony Brook (2000) and M.E. in Computer Science and Automation from the Indian Institute of Science (1997). Her research interests span various aspects of the design automation of embedded real-time systems, cyber-physical systems, and Internet of Things. She has authored over hundred scientific publications in leading international journals and conferences in this domain. Prof. Mitra serves as Senior Associate Editor of the ACM Transactions on Embedded Computing Systems, Deputy Editor-in-Chief of IEEE Embedded Systems Letters, Associate Editor of IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems and IEEE Design & Test Magazine. She has served in the organizing and program committees of several major conferences in embedded systems, real-time systems, and electronic design automation.