

# **COSMIC - Lifetime Research Excellence Award**

## **for Contribution in the field of**

### **Education and Research**

**Awarded on 6<sup>th</sup> Jan 2017**  
**at AETM 2017 - Bangkok, Thailand**



**Prof. (Dr.) B N Biswas**  
**Emeritus Professor, Chairman, Education Division**  
**SKF Group of Institutions, Hooghly,**  
**West Bengal, India**

Calcutta University Gold Medallist, Foundation Fellow WBAST, Fellow IETE, Emeritus Fellow AICTE, Best Citizen Recognition, formerly, National Lecturer (UGC). Aside winning other awards, Professor received life time achievement awards (VEDA and IEEE Kolkata Chapter).

Professor B N Biswas's name appeared in the Who's Who in the World, 30th Pearl Anniversary Edition 2012. International Biographical Centre, Great Britain has recognized Professor B N Biswas as one of the top 100 Engineers and Educators of the World – 2013 and has included Professor B N Biswas among 2000 Outstanding Intellectuals of the 21st Century.

Visiting Faculty, University of Minnesota (USA); Invited Lectures (UK) under the Auspices of British Council; On invitation delivered lectures at: University of Pisa (Italy), University of Bath (UK), University of Kyoto (Japan), University of Okayama (Japan) Czech Academy of Sciences (Czech R), University of Erlangen (W Germany), Electro-Communication University of Osaka (Japan), KMTL, Bangkok, National University of Singapore, Singapore.

Member Commissions C, D and E, International Union of Radio Science (URSI); Overseas Member, Advisory Committee, Microwave Photonics, URSI Member for the Committee for Developing Country, 24 (twenty four) Ph D's, 255 (two hundred twenty five) Publications in IEEE's and other referred journals, First Indian author on a book on Phase Locked Loops, 27 (twenty seven) Research Projects, Best Research Paper Awards: K S Krishnan (twice), S K Mitra, M N Saha and J C Bose Memorial, Half a dozen of his students received URSI Young Scientist's Award. National and International Conference Organizer, Session Chair (India & Abroad); Reviewers IEEE, IETE, etc

Professor B N Biswas has done interesting and some pioneering works in the following fields: 1. Microwave-Multiplex Lightwave Systems; 2. Satellite Communications; 3. Microwave & Millimetre wave Signal Processing; 4. Digital Signal Processors; 5. Phase Lock Techniques; 6. Sub- harmonic & Ultra-harmonic Synchronization; 7. Locked Oscillator Amplifier Demodulators & Converters; 8. Optical Phase Locked Loop; 9. Active Microstrip Patch Antenna; 10. Optical Generation of and Millimetre wave Signal 11. Microwave Photonics. , Microwave Multiplexing of Optical Carriers, 12. Optical Demodulators, 13. Statistical Linearization Techniques, 14. Fokker-Planck Techniques, 15. Opto-electronic oscillators, 16. Klystrons etc.

The author was one of the members of the first International Advisory Committee on Microwave Photonics during the year 1995-1996, Japan

Professor B N Biswas has built up a sophisticated laboratory on Microwave Photonics at Burdwan University, the only one of its kind in India. Sophisticated equipment worth of about Rs 3.00 crores plus a grant of about 2.00 million USD from Ms Agilent (USA) through global competition.

At Burdwan University, Professor B N Biswas has established the following centres: Centre for M Tech course in Micro-waves, Computer Centre, Computer Science, Instrumentation Centre, University Institute of Technology. He also initiated MCA course, introduced Electronics and Computer Science as one of subjects of studies at the graduate level.

He has given 50 years of rural academic service and various courses of study in electronics and computer science at the B Sc level with UGC's approval and received social awards, like: Gunijana Sambardhana, Rajlakshmi Smriti, Paricharan Sarkar, Bharat Excellence, Rastrya Gourav Award etc.