

One-Day Seminar on  
**Next Generation Wireless Communications  
Concepts & Technologies**

*Celebrating The World Telecommunication & Information Society Day*

Organized by

**IEEE Calcutta Section  
IEEE Women in Engineering (WIE)  
Institute of Engineering & Management**



Venue: **Institute of Engineering & Management (IEM), Salt Lake**  
Date: May 17, 2008

The World Telecommunication Day was held for the first time in 1969 and is held each year on 17 May to commemorate the founding of the International Telecommunication Union (ITU) in 1865. The ITU emphasizes the attribute of Telecommunication and has changed the program name to the World Telecommunication and Information Society Day (WTISD) for 2008. To celebrate this day this year IEEE Calcutta Section, IEEE Women in Engineering and Institute of Engineering & Management jointly organized a series of lectures on “Next Generation Wireless Communications Concepts & Technologies” at the Institute of Engineering & Management (IEM), Salt Lake, Kolkata. The ultimate aim of this program was to promote the key messages of World Telecommunication and Information Society Day to the youth community with an aim to enlighten their awareness of Information and Communication Technologies (ICT) development in 2008. There were outstanding speakers from academia as well as industry.

Sri Prasad Ranjan Roy, Additional Chief Secretary, Higher Education Department, Government of West Bengal in his speech as chief guest said that though India is witnessing a rapid growth in the field of Telecommunication but gender divide still exists. Roy said telecommunication is boon and bane as well for the backward class of the society as well as for the physically challenged persons. If they can attain the knowledge they can escalate from their class strata. The physically challenged can also prove themselves to be at par since advancement in telecom sector has drastically reduced physical labor of an individual in the industry. Speaking on the occasion Dr. Iti Saha Misra,

Chairperson IEEE, WIE, said that the number of women in engineering is abysmal and it needs to be improved. Currently the ratio of Men vs. woman in the profession of engineering is heavily tilted towards men. Against 80 men only 20 women is in engineering now. Dr. Misra said that with radical advancement in engineering now there is enormous scope of women to improve the ratio. She said the faculty of engineering has witnessed a paradigm shift from factory shed atmosphere to the field research & development and e-services. Prof. Dr Satyajit Chakrabarti Director Institute of Engineering & Management said that the advanced countries are licking the real-fruit of the advancement of Indian society up. Citing example Prof. Dr Chakrabarti said the huge cell phone handset market is almost totally under control of few multinational companies like Nokia, Motorola, Samsung etc. Others speaking on the occasion were Sri Tarun Dutta, Chairman of the governing body of Institute of Engineering & Management, and former chief secretary of Government of West Bengal, Prof. Salil Sanyal, Chairman IEEE Calcutta section and Prof Ranjan Chowdhury of NITIE Mumbai. Colonel Prabir Sengupta from Satyam Technologies also participated in the seminar. The entire program was initiated, organized and anchored by Dr. Mohuya Chakraborty, IEEE/WIE, Institute of Engineering & Management.

The speakers who graced the seminar included Prof. Pranab Kumar Banerjee, Jadavpur University who spoke about “**Context Aware Application for Mobile System beyond 3G**”. Among the different techniques of NextG wireless networks, wireless sensor networks are endemic and so Prof. Nabanita Das, IEEE/WIE, Indian Statistical Institute has well chosen the topic as “**Sensor Networks: Prospect, Challenges and Social Impact**” for the seminar. As a continuation of the NextG techniques Prof. Prasanta Kumar Basu, Radiophysics & Electronics, Calcutta University delivered talk on “**From Morse Code to Radio-Over-Fibre**” whose impact cannot be denied due to the scarcity of radio spectrum. Last but not the least to know the future challenges of NextG Dr. Amitava Mukherjee, IBM propelled the show with an eloquent lecture on “**Present Scenario and Future Challenges in Pervasive Middleware**” to make the day a grand success. There was a presentation by IEEE Student Chapter Calcutta University. They delivered a motivating speech mentioning about the IEEE student activities. There were about 150 participants from industry, academia, and other organizations.



Prof. Salil Kumar Sanyal, Sri Tarun Dutta and Sri Prasad Ranjan Roy at the inaugural session of “The World Telecommunication & Information Society Day”



Sri Tarun Dutta, Chairman IEM delivering his speech at the inaugural session



Sri Parasad Ranjan Roy Additional Chief Secretary, Higher Education Department, Government of West Bengal delivering his inaugural speech as chief guest



Gathering at the Institute of Engineering & Management on the eve of One Day Seminar on "Next Generation Wireless Communications Concepts & Technologies"



Prof. Salil Kumar Sanyal, Chairman IEEE Calcutta Section delivering speech at the inaugural ceremony



Dr. Iti Saha Misra, IEEE WIE Chair Person delivering speech at the inaugural session





Colonel Prabir Sengupta, Satyam Technologies Ltd. delivering his speech at the inaugural session



Prof. Pranab Kumar Banerjee delivering speech on “Context-Aware Application for Mobile System Beyond 3G”



Prof. Nabanita Das delivering lecture on "Sensor Networks: Prospect, Challenges and Social Impact"



Prof. Prasanta Kumar Basu delivering lecture on "From Morse Code to Radio-Over-Fibre"



Dr. Amita Mukherjee speaking on “Present Scenario and Future Challenges in Pervasive Middleware”



Dr. Mohuya Chakraborty and Dr. Debika Bhattacharya (organizers, IEM) at the post lunch session