

## BIOGRAPHY: ERNA S. SUGESTI



The optical fiber has been my research of interest since I was an electrical engineering student at Universitas Brawijaya, Malang Indonesia in 1991. An opportunity was given by STT Telkom (transformed into IT Telkom-Institut Teknologi Telkom in 2007) to continue my study for Master degree at Manchester Metropolitan University-UK which focused on Optoelectronic System. After finishing my study in 1998, I set up and developed an optical fiber communication laboratory and delivered some lectures on the subject of Electric Circuits, Optical Fiber Communication Systems, Optical Communication Components, Advance Optical Communication Systems, Optoelectronics, Optical Fiber Access Networks, and Optical Instrumentations. Under the UK-TA program, I participated in training conducted by British Telecom, GPT, and Pirelli. In the scope of Telkom's projects for optical access networks, I was trained about the concept and equipment installation of DLC and PON, by Ericsson in Denmark and Raynet in USA, respectively. I was also a trainer/instructor for some short courses for national companies such as Garuda, a flight carrier; Pertamina, a state-owned Oil and Gas Company; Indosat, a leading private Telco and PT Telkom, the biggest telecommunication company in Indonesia.

In addition to deliver lectures and trainings, some outbox challenges were delegated to me such as a manager of collaboration between STT Telkom – North Eastern University-USA, a university secretary, a team leader for Malcolm Baldrige Quality System Implementation, a member of STT Telkom's Senate, and an Executive Chairman III of PIMNAS XVII – an annual national prestigious scientific event for tertiary students. The next tour of duty was a marketing and quality management manager for some educational institutions under YPT - a foundation that holds IT Telkom, IM Telkom, Politeknik Telkom, and some companies.

Since 2007 - up to now I'm a PhD student of Optoelektroteknik dan Aplikasi Laser at Universitas Indonesia. My research of interest areas include, but not limited to, the design of optical fiber access networks, Radio-over-Fiber and currently on WLAN-over-Fiber. Six of my papers have been published in national telecommunication journals and three papers published in international conference proceedings.