

School of Electrical & Electronic Engineering,
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**Microwave and Engineering Research Group
Seminar**

***Research Progress in Printed
Antennas***

By: Professor Wen Xun Zhang

- **Date: Monday 19 March 2007**
- **Venue: room B019 The Mill**
- **Time: 4.15pm**
- **All welcome to attend**

The talk will cover the following four aspects:

1. Broadband slotted-patch antennas: Aperture-coupled U-slotted-patch; Dual-band single-layer E-patches; Folded-slot antenna.
2. Modified tapered slot-line antennas: Coupled TSA; Cross TSA; Shaped TSA.
3. Antennas employing EBG structure: Electromagnetic band-gap structure; Circular-polarized spiral antenna; Febray-Perot resonator antenna.
4. Printed reflect-array with polarization transform: Principle; Elements; Polarization transform; Prototypes.

Bibliography:

Professor Zhang graduated in Radio Engineering from Nanjing Institute of Technology (NIT), and served in NIT/SEU (Southeast University) as fiftieth year. He is a senior professor, supervisor of Doctoral candidates, and a deputy chair of academic steering committee to the State Key Laboratory of Millimeter Waves in China.

Zhang was invited to be a guest / visiting professor by several Universities in China Mainland, Hong Kong & Macao; in Switzerland, France, Italy, Finland & UK; in Canada & USA; in Japan, South Korea, India, Vietnam & Singapore.

Zhang's main professional areas of interest include the engineering electromagnetism and antennas. He had published (authored or co-authored) some 400 papers in the international/national journals and conference proceedings. Zhang had written three famous books "*Differential Equations for Radio Engineering*" (1982, in Chinese); "*Functional Methods for Electromagnetic Engineering*" (1985, in Chinese); and "*Engineering Electromagnetism: Functional Methods*" (1991,1993, in English). He is a translator for Chinese Edition of "*ANTENNAS-for all applications*" authored by J.D. Kraus & R.J. Marhefka. Recently, Zhang is involved into the editorial boards of *Journal of Electromagnetic Waves and Applications*, *Electromagnetics*, *Microwave and Optical Technology Letters*, *Waves in Random and Complex Media*, *Chinese Journal of Radio Science*, etc.

Zhang is a Fellow of the Chinese Institute of Electronics (CIE), and serves as Council member, Antenna Society consultant. Zhang is a Fellow of the Institution of Electrical Engineers (IEE/IET) and Chartered engineer, and serves as a member of AP-PN Executive Team. Zhang is also a Fellow of the Institute of Electrical and Electronic Engineers (IEEE), and serves as a chairman of AP-MTT-EMC Joint Nanjing Chapter, which was the winner of the annual Best Chapter Awards (1995, 2000, 2005) from AP-S and Most Improved Chapter Awards (1995, 1996, 2003) from EMC-S. Zhang was an official member and the Commission B (Fields and Waves) chair of China (CIE) Committee to the International Union of Radio Science (URSI). Zhang is a Fellow of the Institute of Physics (IOP); a member of the Electromagnetics Academy, and a member of Scientific Council to the Antenna Centre of Excellence (ACE). He is also involved into various committees of international conferences /symposia, especially he had organized or chaired several International Symposia held in China.