IEEE Technical Talk

Organic Electronic Device and Circuit For RFID Applications

Date:
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Time:
7:30pm – 8:30pm
7:00pm (networking)

Place:
PSDC
Room 1202
1 Jln Sultan Azlan Shah
11900 Bayan Lepas
Penang, Malaysia

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Organic electronics as an emerging research field has attracted great interests both from academe and industry for flexible, large-area, low-cost and environmentally friendly characteristics. Radio frequency identification is one of the most attractive applications for organic thin film transistors (OTFTs). Great progress has been achieved in the area of organic RFID, in the year 2004, the first 125 kHz, RFID was produced, and up to the year 2008 the first printable CMOS circuits was announced. However, in order to fulfill the more demanding specifications of more complex future generations of products, further improvement of materials, process, design and equipment is necessary. In this talk, a brief introduction on Organic electronics will be firstly given and its challenges will be discussed. Then, research works of organic electronics in IMECAS will be introduced

Speaker

Prof. Liu Ming

Prof. Liu Ming obtained a B.Sc. and M.Sc. in Semiconductor Physics and Device from Hefei University of Technology (HFUT) China, in 1985 and 1988 respectively. Subsequently, she pursued her Doctorate at the Beijing University of Aeronautics & Astronautics (BUAA) and obtained her Ph.D. in Materials Engineering in 1998.

She is currently working as a Professor at the Institute of Microelectronics of the Chinese Academy of Sciences (IMECAS). She is also the Director for the Laboratory of Nanofabrication and Novel Device Integration Technology at IMECAS, a position that she has held since 2001. Prior to this, she started off as Assistant Professor for the Computer Dept at Yantai University (China) between 1988 to 1995, before joining IMECAS in 1999, also as Assistant Professor, and then subsequently as Associate Professor (1999—2000).

Prof. Liu's has authored or co-authored more than 100 journal and conference papers, including invited papers in international technical conferences. Some of her notable achievements include winning the Beijing Science and Technology Progress Award four times (between 2002—2010), the National Invention Award twice (between 2005—2007), the Elitist Young Scientist Award in 2008 (i.e. the highest government award given to young scientists and engineers for basic research in China), and more recently, the Achievement Award of CVS (Chinese Vacuum Society) and Outstanding Member of CIE (Chinese Institute of Electronics), both in 2012.

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