Abstract

Title: CIGS Solar Cell Technology and Progress in Industrialization

Speakers: Prof. Yun Sun

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Prof. Yun Sun is from Institute of Photo-Electronics at Nankai University, Tianjin, China. He got B.S. in Electronics Physics in 1982, and now is the lab leader of compound photovoltaic materials and devices. He has been working on thin film solar cells, device physics, process equipment, and engineering development of industrialization technologies since 1987. In 1990s, the development of 7-chamber continuous PECVD system achieved a-Si solar cells of 7.88% efficiency and a-Si/a-Si tandem modules of 8.28% efficiency on glass substrate of 400-cm2. He turned to $Cu(In,Ga)Se_2$ (CIGS) solar cells research in 1996, and built the first CIGS R&D platform and pilot line of China. He has published more than 170 papers, owned 5 authorized patents, and is now working with industrial companies to promote the progress in CIGS industrialization.

This time he will give a talk on CIGS technology and the current progress in industrialization. This talk will introduce the basics of CIGS solar cells, different fabrication technologies, the bottleneck encountered in industrialization, and current achievements obtained by his research group.