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Type: Oral Presentation

## NON-SPECIALIST: Organic solar cells: An overview focusing on metal oxide buffer layer and post-fabrication annealing

*Thursday, 14 July 2011 12:00 (15 minutes)*

Photovoltaic cell devices constructed from organic materials are becoming increasingly efficient because of the discovery of the bulk heterojunction concept. Today, organic photovoltaic cell (OPVC) devices fabricated from the blends of poly(3-hexylthiophene) (P3HT) and [6,6]-phenyl C<sub>61</sub>-butyric acid methyl ester (PCBM) are the most widely studied bulk heterojunction systems because of their relatively good photovoltaic (PV) properties. Although the P3HT:PCBM based solar devices exhibit excellent PV properties compared to other bulk heterojunction polymer solar cells, their efficiency is

**Level (Hons, MSc, PhD, other)?**

other

**Consider for a student award (Yes / No)?**

No

**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

yes

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**Session Classification:** CMPMS2

**Track Classification:** Track A - Condensed Matter Physics and Material Science