



**NSERC PHOTOVOLTAIC INNOVATION NETWORK**  
**Solar Cell Fabrication Hand-on Training Program**  
**Centre for Emerging Device Technologies**  
**McMaster University**  
**Hamilton, Ontario**  
**Summer 2013**

Day	Time	Location	Event
1	8:00 – 8:30	JHE* - A419	Registration
	8:30 – 9:00	JHE - A419	Introduction
	9:00 – 14:30	TAB† Annex - 110	Molecular Beam Epitaxy and ion implantation tour, MBE growth of simple optical test structure.
	12:15 – 13:00	TAB Annex - 110	Lunch
	14:30 – 17:00	TAB Annex - 110	Characterization: x-ray, photoluminescence, Hall effect measurement
2	9:00 – 10:15	JHE - A419	Educational introduction course
	10:30 – 12:00	JHE - A419	Educational introduction course
	12:15 – 13:00	JHE - A419	Lunch
3	13:15 – 17:00	JHE - A 306 (CEDT clean room facility)	Front and back contact formation (e-beam metallization)
	8:30 – 12:00	JHE – A314	Silicon cell front and back contact formation (sputtering)
	12:15 – 13:00	JHE - A419	Lunch
	13:15 – 16:00	TAB Annex – 205	Cell performance measurement (dark and illuminated IV measurements)
4	9:00 – 12:00	TAB Annex - 205	External Quantum Efficiency measurement
	12:15 – 13:00	JHE - A419	Lunch

\* John Hodgins Engineering Annex Building

† Tandem Accelerator Building