Abstract Submitted
for the MAR13 Meeting of
The American Physical Society

**Morphological Control and Characterization of Liquid Crystalline Materials for Organic Electronics Applications** NABIL KLEINHENZ, KARTHIK NAYANI, JUNG OK PARK, MOHAN SRINIVASARAO, ELSA REICHMANIS, Georgia Institute of Technology — Pi-conjugated polymers have been widely explored for use in organic electronics applications. However, their performance is largely limited by the material morphology. We present research on the control and characterization of morphology for conjugated polymers that exhibit a liquid crystalline phase, while making use of their unique properties in organic field effect transistors and organic photovoltaics. Synthesis of novel materials as well as studies on processing conditions have been utilized to elucidate the relationships between structure, properties and device performance.

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Date submitted: 20 Feb 2013 Electronic form version 1.4