

Plasma Processing

The Plasma Processing Chairs invite the heterogeneous and active plasma community already familiar with the SVC TechCon, as well as first-time SVC visitors, to contribute to the 2011 Plasma Processing program. Plasma processing has the unique capability of delivering a diverse but selective reactivity to a surface by modifying the surface chemistry. This capability, however, is based on the complexity of the plasma environment, defined by specific plasma physics and chemistry, material science and plasma-surface interactions. Thus, the potential of plasma processing can only be upscaled to an industrial level when material studies are accompanied by the understanding of plasma physics, plasma chemistry and mechanisms of plasma-surface interactions, developed through modeling and experimental efforts. Traditionally, the Chairs welcome all papers aimed to arise interest from the scientific and industrial communities visiting the SVC conference from the fields of thin film plasma deposition/modification, novel and emerging plasma processing tools and applications, and plasma sources compatible with large area processing. Additionally, the 2011 Plasma Processing program will explore the fundamentals of plasma science by soliciting contributions, particularly in two research areas:

1. Plasma Polymerization/Polymer Modification:

- *Novel applications and fundamentals of thin film growth*
- *Plasma deposition mechanisms and plasma-surface interaction*

2. Plasma Diagnostic Tools:

- *Ion probes, optical and non-optical diagnostics for radical and molecule detection*
- *Investigation in harsh plasma (deposition/etching) environments*

We look forward to your contribution to an exciting conference in Chicago!

Plasma Processing TAC Chair: Mariadriana Creatore, Eindhoven University of Technology, The Netherlands, (31/402 474 223; m.creatore@tue.nl). Assistant TAC Chairs: James Bradley, University of Liverpool, United Kingdom, (44/151 794 4545; j.w.bradley@liverpool.ac.uk) and Scott Walton, U.S. Naval Research Laboratory (202/767-7531; scott.walton@nrl.navy.mil)