



# ΙΤΕ/ΙΕΧΜΗ

ΣΕΜΙΝΑΡΙΟ  
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**ΟΜΙΛΗΤΗΣ:** **Mario Leclerc**  
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Quebec City, Canada

**ΘΕΜΑ:** **Green Materials for Green Energy**

**ΗΜΕΡΟΜΗΝΙΑ:** **Παρασκευή, 20 Οκτωβρίου 2023**

**ΩΡΑ:** **12:00**

**ΤΟΠΟΣ:** *Αμφιθέατρο Συνεδριακού ΙΤΕ/ΙΕΧΜΗ*

## ΠΕΡΙΛΗΨΗ

Conjugated polymers have received a lot of attention since they combine the best features of metals or semiconductors with those of synthetic polymers. On this basis, this class of materials can lead to printable and flexible photovoltaic devices as well as other optical and electronic devices. Along these lines, we will describe novel synthetic methodologies for a simple and “green” preparation of such well-defined conjugated polymers. These new synthetic methods are based on direct (herero)arylation reactions that allow the formation of carbon-carbon bonds between heteroarenes and aryl halides. They do not require organometallic intermediates thereby significantly reducing synthetic steps, metallic by-products, and cost.



# ITE/IECHMH

## Σύντομο βιογραφικό

Mario Leclerc was awarded a Ph.D. in chemistry from Université Laval, Quebec City, Canada, in 1987, under the guidance of Prof. R.E. Prud'homme. After a short post-doctoral stay at INRS-Energie et Matériaux near Montréal with Prof. L.H. Dao, he joined the Max-Planck-Institute for Polymer Research, in Mainz, Germany, as a post-doctoral fellow in the research group of Prof. G. Wegner. In 1989, he accepted a position of professor in the department of chemistry at the Université de Montréal. He returned to Université Laval in 1998. Since 2001, he has held a Canada Research Chair on Electroactive and Photoactive Polymers. He is the author or co-author of 300 publications which have already received more than 48 000 citations (h-index of 105). His current research activities include the development of new building blocks and polymerization methods (e.g. direct heteroarylation) for applications in organic electronics.