## "ELECTROCHROMIC FILMS AND FIBERS FOR SMART SKIN APPLICATION"

## G. Sotzing

Polymer Program Institute of Materials Science University of Connecticut 97 North Eagleville Road Storrs, CT 06269-3136 USA. <u>sotzing@mail.ims.uconn.edu</u>

The development of conjugated polymers and biological materials as nanofibers could many benefits especially with respect provide to diffusion related processes. Our group has been involved with the electrostatic spinning of electrochromic nanofibers and of biological polymers with enhanced electro-optical properties. Using precursor а polymer approach to the preparation of polythiophenes, we have been able switch to electrospin nanofiber mats having the ability to rapidly between will further report on new materials blue and orange. We with alternative color transitions in addition to preparation of core/shell nanofibers. nice hole injection Salmon DNA has shown to be a layer for light been emitting diodes. Here. we will report electrostatic spinning of Salmon DNA-CTMA complex from alcohol in addition to formation of nanofibers from enhanced Salmon DNA nanofibers containing fluorescent dye gave water. comparison to Salmon DNA/fluorescent fluorescence in dye films. Use of this property will be shown with respect to its use as a sensor.