

**Tuesday 28 August****Inorganic Electrochromic Materials and Devices 1 Chair : B. Dam**

- 8:50 **S. K. Deb**, Progress in Electrochromic WO<sub>3</sub> for Smart Window and Other Applications
- 9:10 **C. M. Lampert**, Advances in Chromogenics-A View to the Future
- 9:40 **G. A. Niklasson**, Electrochemical Rejuvenation of Tungsten Oxide Electrochromic Thin Films: Evidence from Impedance Spectroscopy
- 10:00 **X. Diao**, Electrochromic Mechanism of Nickel Oxide and Charge-transfer Dynamics of Inorganic Allsolid-state Electrochromic Devices

10:20 *COFFEE BREAK*

**Inorganic Electrochromic Materials and Devices 2 Chair : Y. Abe**

- 10:50 **A. Rougier**, Role of the stoichiometry in multichromism, the case of vanadium oxides
- 11:20 **W. Cheng**, Photodeposition of amorphous metal oxide films for electrochromic windows
- 11:40 **Y. Joshi**, Modulation of Optical Properties of LiMn<sub>2</sub>O<sub>4</sub> via Li ion De/Intercalation
- 12:00 **D. M. Giaquinta**, Preparation of Electrochromic Devices from Crystalline Transition Metal Oxides Using Liquid Deposition Techniques

12:30 *LUNCH*

**Organic Electrochromic Materials and Devices 1 Chair : K. Ho**

- 14:00 **J. R. Reynolds**, Color Chemistry in Electrochromic Polymers
- 14:30 **H. Meng**, Thieno[3,2-b]thiophene Based Conjugated Polymers for Electrochromic Applications
- 14:50 **C.-L. Lin**, Photoelectrochromic Devices Based on Poly(hydroxymethyl 3,4-ethylenedioxythiophene) Thin Films
- 15:10 **C. A. T. Laia**, Enhanced Electrochromic Performances using Water Dispersible Poly-3-hexylthiophene (P3HT) Nanoparticles

15:30 *COFFEE BREAK*

**Organic Electrochromic Materials and Devices 2 Chair : A. M. Österholm**

- 16:00 **C. Zhang**, Conjugated Microporous Polymers-based Electrochromic Materials with Tunable Properties
- 16:30 **J. Xu**, High Performance Donor-acceptor Conjugated Polymers for Electrochromic Applications
- 16:50 **H. Niu**, Design and Synthesis of Multifunctional, Electrochromic D-A Polymers Containing Triarylamine

17:20 **POSTER**

## Wednesday 29 August

### Organic Electrochromic Materials and Devices 3 *Chair : A. Aoki*

- 8:50 **H.-J. Yen**, Arylamine-based Polymeric Materials for Electrochromic and Emergent Optoelectronic Applications
- 9:20 **P. Liu**, Colorless-to-Black Solid-state Electrochromic Devices with High Optical Contrast Based on Cross-linked Poly(4-vinyltriphenylamine)
- 9:40 **A. Ramanavicius**, An Electrochemically Deposited Polyaniline Layer in the Design of Optical Sensors
- 10:00 **A. M. Österholm**, A New Method for Quantifying and Comparing Switching Time in Electrochromic Materials and Devices
- 10:20 **W. Skene**, Towards Property Tailoring Of Electrochromes via Rational Design and Reversible Bond Formation
- 10:40 *COFFEE BREAK*

### Hybrid and Composite Electrochromic Materials 1 *Chair : M. Higuchi*

- 11:10 **T. Yashiro**, Electrochromic plastic Lens for Eyewear
- 11:40 **J. Wang**, Controllable growth of manganese dioxide/Prussian blue nanocomposites with large optical modulation for electrochromic application
- 12:00 **C. Xu**, Trifunctional CdSe Quantum Dots-polymer Composite Film with Electrochromic, Electrofluorescent and Light-induced Coloration Effects
- 12:20 **H.-F. Yu**, Electrochromic Devices based on Bis-4-(trifluoromethyl)benzyl Viologen (TFMBV)
- 12:40 *LUNCH*

### Hybrid and Composite Electrochromic Materials 2 *Chair : S. Z. Karazhanov*

- 14:10 **M. Manca**, Dual Band Electrochromic Glazing: Towards the Next Generation of Zero-Energy Building Envelopes
- 14:40 **T.-Y. Kim**, Colourful switchable mirror device based on reversible electrodeposition
- 15:00 **A. Aoki**, Reversible Ag Electroplating onto ITO Electrode for Smart Window
- 15:20 **M. Strand**, Nucleation Control Enables Large-Area, Color-Neutral Dynamic Windows based on Reversible Metal Electrodeposition
- 15:40 *COFFEE BREAK*

### Electrolytes and Transparent Conductors 1 *Chair : C. Xu*

- 16:10 **M. Yoshizawa-Fujita**, Design and Properties of Organic Ionic Plastic Crystals as Novel Solid Electrolytes
- 16:40 **U. O. Krašovec**, Solid electrolyte containing a colourless TMTU/[TMFDS]<sup>2+</sup> redox couple
- 17:00 **P.-H. Aubert**, Poly(ionic liquid)s as Promising Electrolytes for True Solid States Organic Electrochromic Devices
- 17:30 **POSTER**

**Thursday 30 August****Electrolytes and Transparent Conductors 2 Chair : H.-J. Yen**

8:50 **E. Stamate**, Optoelectronic properties of aluminum doped zinc oxide thin films deposited by RF magnetron sputtering at room temperature

9:10 **M. Schott**, Novel electrochromic devices based on metallo-supramolecular polyelectrolytes

9:30 **W.-N. Wu**, Electrospun Nanofibers of TEMPO-grafted PVDF-HFP as Polymeric Electrolyte for Electrochromic Devices

9:50

*COFFEE BREAK*

**Thermochromic, Photochromic and other Chromogenic Materials Chair : A. Rougier**

10:20 **B. Dam**, Photochromism in Yttrium and Rare-Earth oxyhydrides

10:50 **S. Z. Karazhanov**, Influence of Temperature and Monochromatic Light on Photochromism of Oxidized Yttrium Hydride

11:10 **M. V. Moro**, Investigation of the photochromic behavior in yttrium oxy-hydride films during light illumination

11:30 **P. Jin**, VO<sub>2</sub>-based thermochromism: Progress, Problems and Perspectives

**Excursion**

18:30

**Banquet**

**Friday 31 August****Device application 1 Chair : M. Manca**

9:00 **F. Geng**, Two-Dimensional Metal Oxide Sheets for Flexible Fiber-Shaped Battery Devices

9:20 **Z. Zhao**, Fusing Electrochromic Technology with Other Advanced Technologies

9:40 **S. Zhang**, Monoclinic Oxygen-Deficient Tungsten Oxide Nanowires for the Dynamic and Independent Control of Near-Infrared and Visible Light Transmittance

10:00 **C. S. Lee**, Introducing Cost-effective Process for Large Area Smart Window

10:20

*COFFEE BREAK*

**Device application 2 Chair : C. Zhang**

10:50 **I. Mjejri**, From Thick Films to Advanced Electrochromic Devices with Non-Conventional Architectures

11:10 **C. Pinheiro**, Color Changing Surfaces an Approach for Calm Computing

11:30 **M. Higuchi**, Electrochromic Devices with Metallo-Supramolecular Polymer

11:50 **L. Shen**, Europium Ions Doped WO<sub>3</sub> Film with Bi-function of Enhanced Electrochromic Switching and Tunable Red Emission

12:10

**IME-14 Announcement**

**Prof. J. R. Reynolds, Dr. A. Österholm, Dr. E. Shen**