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EDITORIAL

Special issue with contributions to the conference "International Workshop on Electrochemistry of Electroactive Materials" (WEEM-2006), Repino, St-Petersburg Region, Russia, 23–28 June 2006

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This conference was the fifth event in this series of international conferences (Workshop on Electrochemistry of Electroactive Polymer Films [WEEPF]/Workshop on Electrochemistry of Electroactive Materials [WEEM]) after those in Moscow, Russia (1995), Dourdan, France (1997), Poraj, Poland (2000), and Bad Herrenalb, Germany (2003). The conference was realized as a "workshop" so that about half of the whole working time was left for various discussions, based on results presented in lectures or oriented to the analysis of fundamental problems of the area. To keep this style, the number of participants was limited to about 90, about 40 of them having delivered lectures.

The scope of the conference covered various aspects of processes that are of importance in the principal classes of modern electroactive materials: electron-conducting polymers, redox-active inorganic materials as well as their hybrid/composite and nanostructured materials. The main topics of discussions during the workshop were: properties of monomers and oligomers; synthesis and structure of electroactive polymer films; electrochemical, electronic and optical properties, spectroscopic techniques, photoelectrochemistry, local probe microscopy, charging–discharging process in conducting polymers; transport phenomena in electroactive films; kinetics of interfacial exchange; EQCM, impedance, and other alternating current techniques; kinetics of reactions of solute species at modified electrodes; electrocatalysis, sensors, films modified by nanoparticles; inorganic and hybrid electroactive films; protective films; fundamental aspects of interfaces; adsorption and kinetics.

The actual special issue represents a set of original publications prepared by the authors of lectures delivered at WEEM-2006, which were selected by the journal.

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