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**O 96: Invited Talk Klaus Wandelt**

Time: Friday 14:00–14:45

Location: HE 101

**Invited Talk**

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**Electrochemical Surface Science** — •KLAUS WANDELTE — Institut für Physikalische und Theoretische Chemie, Universität Bonn, Wegelerstr. 12, 53115 Bonn

An important trend in surface science is to expand the investigations to more complex surfaces in UHV and/or surfaces in more realistic ambients like gas atmospheres or liquids. Based on a combination of in-situ (cyclic voltametry, electrochemical scanning tunneling microscopy, in-

frared spectroscopy and X-ray diffraction) as well as ex-situ methods (low energy electron diffraction, synchrotron X-ray- and Auger electron spectroscopy, ion scattering) various processes at single crystal copper electrode surfaces in contact with electrolytic solutions have been investigated and will be discussed in this presentation. Specific examples are ion-induced surface reconstruction, thin film growth, surface compound formation, and selfassembly of organic layers. Whenever possible comparison to relevant systems in UHV will be made.