



# 学术报告



Exploring ways toward sustainability

State Key Laboratory  
of Chemical Resource Engineering

**报告人: Prof. Nicolas ALONSO-VANTE**

**Institute of Chemistry of Poitiers :**

**Materials and Natural Resources – (IC2MP)**

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**时间: 2016年9月6日 上午9: 00-11: 30**

**地点: 无机楼107**



**Biography:** Nicolas Alonso-Vante is a Professor at the Department of Chemistry at the University of Poitiers.

Over more than two decades he has developed materials in the nanodivided scale based on transition metal and chalcogenides in metallic and semiconducting form in Germany and France. Using facile chemical routes he has pioneered the use of non-platinum and non-precious metal catalysts center chalcogenides in order to understand the complex process of the oxygen reduction reaction process, an important technological reaction in low temperature fuel cells. Other interest of such materials in combination with light harvesting are devoted to split water into hydrogen and oxygen, and photocatalysis. He is the author of over 240 publications, book chapters, editor of a two-volume e-book of electrochemistry in Spanish and holds 2 US-, 2 German, and 2 French patents. He has received the awards of the National Polytechnic Institute-Mexico as a R&D distinguished graduate, and of the Mexican Council of Technology SNI-III highest recognition as a Mexican researcher working outside Mexico. He is a member of the International Society of Electrochemistry, the Electrochemical Society, and the Bunsengesellschaft für Physikalische Chemie. He obtained the degrees of Docteur Troisième Cycle (1981) and Doctorat d'Etat (1984) from the University of Strasbourg, France.

Under the auspices of the Alexander von Humboldt foundation he was awarded a two years Post-Doc fellowship (1985-1986) at the Hahn-Meitner-Institut-Berlin (now Helmholtz-Zentrum Berlin), where he further worked as a senior scientist in the department of solar energy until August 1997. Prof. Alonso-Vante's main research interests are (Photo)electrochemistry and (Photo)electrocatalysis of novel materials using various ex-situ and in-situ techniques, fuel generation, interfacial characterization and surface analytical techniques.

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