NAME	**HAUCHARD Didier**
BIRTH DATE	April 26, 1962
NATIONALITY	French
ADDRESS	Ecole Nationale Supérieure de Chimie de Rennes, Institut “Sciences Chimiques de Rennes”, CNRS, UMR 6226, Team "Chimie et Ingénierie des Procédés" *Avenue du Général Leclerc, CS 50837, 35708 Rennes Cedex 7, France*. *Tel : 33.(0)2.23.23.80.44 - Fax: 33.(0)2.23.23.81.20* didier.hauchard@ensc-rennes.fr
PRESENT JOB	**Assistant Professor** skills : ***Electrochemical analysis and Processes - Analytical Chemistry*** (microelectrochemistry, antioxidant and oxidation mechanism analysis, electrochemical sensors, solid materials with redox or exchange properties, water and wastewater electrochemical treatment, electrochemistry in sustainable development)

♦ EDUCATION AND RESEARCH ACTIVITIES

2007	**Thesis Director Enabling Degree** (*Microelectrochemistry – University ofr Rennes 1*)
1990	**PhD in Analytical Chemistry** (*Pierre and Marie Curie University-Paris VI* **)**
1987	**Master research (DEA) in Analytical Chemistry (***University of Paris VI – France***)**

♦ PROFESSIONAL EXPERIENCE

2011-Present	**Associate Professor, HC** ENSCR UMR 6226 Sciences Chimiques de Rennes- CIP team
2006-2011	**Associate Professor** ENSCR UMR 6226 Sciences Chimiques de Rennes-MaCSE team
1994-2006	**Senior Lecturer** ENSCR Physico-chemistry Laboratory
1990-1994	**Contractual Senior Lecturer** Ecole Centrale Paris Laboratory of Nuclear and Industrial Chemistry
1987-1990	**PhD student, INSTN CEA Saclay** – "*Study of redox properties of uranium organometallic complexes.*

TEACHING (within Ecole Nationale Supérieure de Chimie de Rennes)

Magisterial Courses
- Complexation and Solution Chemistry (*L3*)
- Nuclear chemistry (*L3*)
- Electroanalytical chemistry (*M1*)
- Industrial chemical and biochemical sensors (*M1*)
- Bases of Spectroscopic methods (*L2*)
- Analysis of inorganic traces and ultra-traces (*M2*)
- Analytical applications of radionucleides

Practical courses:
- analytical chemistry
- electrochemistry

Project:
- Environmental engineering
- Bibliography

♦ RESEARCH TOPICS (within the "MaCSE" team and from January 2012 within CIP Team, UMR CNRS 6226, ENSCR)

- **Ultramicroelectrochemical analysis**

- nutrition and health (oxidation process(ROS) and antioxidants)

- development of functional products (vegetable extracts : polyphenol analysis and oxidative capacity)

- materials (studies of insertion and electron transfer into solids)

- **Electrochemical process in water, wastewater & industrial waste treatments**

  - Electro-Fenton process (persistent pollution)

  - Electro-coagulation (metals and organic pollution, nanoparticle treatment)

  - Electro-generation of reactive species (disinfection of water, solid waste treatment)

Publications récentes les plus marquantes

• Cavity microelectrode for the study of clay supported $Mn^{(III)}$Salen complex implying the activation of molecular oxygen.Y. ZIDANE, A. OURARI, P. HAPIOT, D. HAUCHARD. ***J. Electroanal. Chem**., 641 (2010) 399-407*

• How do phenolic compounds react toward superoxide? A simple electrochemical method for evaluating antioxidant capacity, A. RENÉ, M. L. ABASQ, D. HAUCHARD, P. HAPIOT. ***Anal. Chem.**, 82 (2010) 8703-8710*

• Complexation study of humic acids extracted from forest and Sahara soils with zinc(II) and cadmium(II) by differential anodic stripping voltammetry (DPASV) and conductimetric methods. A. TERBOUCHE, S. DJEBBAR, O. BENALI-BAITICH, D. HAUCHARD, ***Water, Air and Soil Pollut**.. 216 (2011)* 679-

• A Radical-scavenging capacity of phenol fractions in the brown seaweed Ascophyllum nodosum: an electrochemical approach" N. BLANC, D. HAUCHARD, L. AUDIBERT, E. AR GALL***, Talanta**., 84 (2011) 513*

• Evaluation of adsorption capacities of humic acids extracted from Algerian soil on polyaniline for application to remove pollutants such as Cd(II), Zn(II) and Ni(II) and characterization with cavity microelectrode
A. TERBOUCHE, S. AIT-RAMDANE-TERBOUCHE, D. HAUCHARD, S. DJEBBAR, ***J. Environ. Sci.** 23(7) (2011) 1095-1*

• Feasibility of an integrated process for the treatment of sulfamethazine, coupling of an electro-Fenton process and a biological treatment, D. MANSOUR, F. FOURCADE, N. BELLAKHAL, M DARCHRAOUI,. D. HAUCHARD, A. AMRANE ***Water, Air and Soil Pollut**..(sous presse 2012)*

• Procédé permettant d'accélérer la dissolution du zinc dans des suspensions basiques et dispositif de détection de fin de dissolution, A. DARCHEN, D. HAUCHARD et S. PAOFAI ; *Brevet ENSCR FR2778925 26/11/99*