

Extended Curriculum Vitae

Alexander KUHN, born 11.10.1965 in Aising, Bavaria. Married, two children.
Fluent in German, English and French

Present situation: Full Professor, Ecole Nationale Supérieure de Chimie de Biologie et de Physique
ENSCBP, University Bordeaux, <http://nsysa.ism.u-bordeaux.fr/>

Career:

- 1985** "Abitur" (Luitpoldgymnasium in Wasserburg, Bavaria)
- 1985/86** **Military service** in the laboratory of pharmacology and toxicology of the "Sanitätsakademie" in Munich (*In vitro study of the effect of mono- and bis quaternary ammonium complexes on inhibited acetylcholinesterase*)
- 1986** Start of **chemistry studies** at the Technical University of Munich
- 1988** "Vordiplom" in chemistry with distinction
- 1989/90** **Laboratory of molecular photochemistry** at the University of Bordeaux 1
(Prof. J. Jousset-Dubien, *Synthesis and characterisation of photoactive stilbene derivatives*)
- 1990** **Laboratory of inorganic chemistry** at the University of Oxford (Prof. D. O'Hare, *Synthesis of organometallic charge transfer complexes*)
- 1991** "Diplom" in chemistry at the Technical University of Munich (Prof. H.P. Fritz, *Measurement of transport numbers in solid electrolytes*) (with distinction)
- 1992/94** **PhD thesis** at the Centre de Recherche Paul Pascal (CNRS) in Bordeaux (Dr. F. Argoul, *Interfacial structuration in electrochemical systems*) (with distinction)
- 1995/96** **Post-doc** at the California Institute of Technology (Prof. F.C. Anson, *Adsorption of polyoxometalates on different electrodes and their electrocatalysis*)
- 1999** **Habilitation** at the University of Bordeaux 1 (*Electrochemistry and molecular recognition*)
- 2000** **Full Professor** position at ENSCBP/Bordeaux
- 1998-2002** **Head of the electrochemistry group** of the laboratory LACReM/Bordeaux
- 2003-2006** **Director of the laboratory** LACReM/Bordeaux
- 2007-2010** **Head of the group** "Analytical Nanosystems" of the Institute of Molecular Science/Bordeaux

Scientific and administrative responsibilities:

International level

- Chair (2011-12), Chair elect (2009-10) and Past Chair (2013-2016) of the Bioelectrochemistry division of the International Society of Electrochemistry
- Treasurer (2012-) and vice treasurer (2008-11) of the Bioelectrochemical Society
- Board member of the Bioelectrochemical Society (2005-)
- Board member of the European section of the Electrochemical Society (2009-11)
- Advisory board of the journals « Analytical & Bioanalytical Chemistry » (2007-10); « Bioelectrochemistry » (2005-); « The Open Electrochemistry Journal » (2008-2015); « Electroanalysis » (2012-); « Electrochimica Acta » (2013-); « ChemPhysChem » (2015-)
- Editorial board of the journal « Scientific Reports » (2015-)
- Advisory board of the « Center of Nanotechnology », Kasetsart University, Bangkok, Thailand (2009-)

National level

- Board member of the Aquitaine section of the French Chemical Society (2000-04)
- Advisory board of the French agency for evaluation of research and higher education AERES (2007-13)
- Advisory board of the French group of bioelectrochemistry GFB (2010-2014)
- Steering board of the electrochemistry division of the French Chemical Society (2016-)
- National scientific committee of CNRS, section Physical, Analytical and Theoretical Chemistry (2016-2021)

Local level

- Scientific advisory board of ENSCPB (2000-09)
- Administration council of ENSCPB (2001-09)
- Council of ENSCBP (2009-2012)
- Scientific council of the chemistry department, Université de Bordeaux 1 (2003-06)
- Council of the Doctoral School of Chemistry, Université de Bordeaux 1 (2003-06)

- Council of the Doctoral School of Live Science, Université de Bordeaux 2 (2007-14)
- Scientific council of the Institute of Molecular Science, Bordeaux (2007-10)
- Scientific Council of the Bordeaux Institute of Technology, (2009-2013)
- Vice-president of the commission of physical chemistry, Université de Bordeaux 1 (2004-08)
- Director of International Relations of ENSCBP (2009-2015)
- Coordinator of the axis « Bioactive Materials » of the Laboratory of Excellence AMADEus (2011-)
- Director of the technology transfer unit “BrivaTech” (2014-) (<http://nsysa.ism.u-bordeaux.fr/brivatech>)

Research and scientific animation

- Supervision of **25 PhD** thesis, **12 post-docs** and **10 Master students**
- Awards given to supervised PhD students: *Best thesis award of the French Chemical Society Aquitaine section* (Y. Bon Saint Côme 2011, N. Mano 2001); *Best thesis award of the « Association des Femmes Françaises Diplômées des Universités »* (S. Ben-Ali 2004); *Best thesis award of the analytical chemistry division of the French Chemical Society* (L. Viry, 2007); *Award for the best oral presentation of the Federation Gay-Lussac* (Y. Bon Saint Côme 2011); *ERC European Young Investigator Award* (N. Mano, 2006); *Silver Medal European Young Chemist Award* (G. Loget, 2012); *Several best poster prizes at the occasion of international conferences* (G. Loget, J. Lenz, V. Urbanova, L. Viry).
- Scientific evaluator for the national (ANR) and several international research agencies (Germany, Israel, South Africa, USA, UK, Czech Republic, Slovenia, Netherlands etc.)
- Referee of approx. fifty publications per year for international journals (ABC, Adv.Funct.Mater., Anal.Chem., Angewandte, Biosensors, Electroanalysis, Electrochim. Acta, JACS, PCCP, Nat.Comm....)
- Member of 42 PhD committees and 13 habilitation committees
- Management of 15 research projects, as PI or co-PI, financed by ANR (4), Europe (3), Aquitaine Region (2), CPER, ACI, CNRS, AquitaineValo, AST
- Important network of international research collaborations (Thailand, Poland, Italy, UK, Germany, Sweden, Czech Republic, USA, China,).

Main scientific interests

Molecular surface modification of electrodes; Meso- and macroporous electrodes; (Bio)electroanalysis; (Bio)electrocatalysis; Bipolar electrochemistry; Electrodeposition; Micro- and Nanoelectrodes; Janus particles; Chirality

Scientific recognition

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| 1984-91 | Fellow of the "Studienstiftung des deutschen Volkes" |
| 1992-93 | EU fellowship for the PhD thesis |
| 1994 | Young scientist award of the French Chemical Society for the PhD thesis |
| 1995-96 | Fellowship of the Alexander von Humboldt foundation for the post-doc |
| 2001 | Electrochemistry award of the French Chemical Society |
| 2000-2012 | Annual bonus for research achievements of the French Ministry of Research (PEDR) |
| 2005- | Adjunct Professor at Kasetsart University, Bangkok, Thailand |
| 2005 | Promotion to 1 st class Professor |
| 2006 | Invited visiting Professor, KFKI Research Center Budapest, Hungary |
| 2007 | Invited visiting Professor, University of Venice, Italy |
| 2008 | Invited visiting Professor, Harvard University, USA (six months sabbatical) |
| 2008 | Distinguished Lecturer at the University of Turku, Finland |
| 2012 | Promotion to exceptional class Professor |
| 2012- | Scientific excellence bonus (PES) of the French Ministry of Research and Education |
| 2013 | Nomination as Senior Member of the Institut Universitaire de France (IUF) |
| 2013 | Distinguished Lecturer, Abo Akademi, Finland |
| 2014- | Adjunct Professor at the Vidyasirimedhi Institute of Science and Technology (VISTEC), Rayong, Thailand |
| 2015 | Nomination as distinguished member of the French Chemical Society |
| 2017 | ERC Advanced grant for the project ELECTRA |

Invited oral presentations at conferences (Plenary, Keynote, Invited, Tutorial, selection of 10 out of a total of 60)

1. Gordon Research Conference on Electrodeposition, New England, Maine, USA, July 2012, **I**
2. Royal Society of Chemistry meeting “Electrochem2013”, Southampton, UK, September 2013, **P (Fleischman Lecture)**
3. Gordon Research Conference on Electrochemistry, Ventura, California, USA, January 2014, **I**
4. Swedish Chemical Society meeting “Analysdagarna 2014”, Stockholm, Sweden, June 2014, **K**
5. Materials Research Society Meeting, Singapore, July 2015, **I**
6. 25th Conference on Analytical Chemistry of the Italian Society of Chemistry, Trieste, September 2015, **P**
7. 66th Annual Meeting of the International Society of Electrochemistry, Taipei, Taiwan, September 2015, **K**
8. Conference “Surface Modification for Chemical and Biochemical Sensing 2015”, Pultusk, Poland November 2015, **T**
9. German Chemical Society meeting “Electrochemistry 2016”, Goslar, Germany, September 2016, **K**
10. 12th IUPAC Conference on Novel Materials and their Synthesis, Changsha, China, October 2016, **K**

In addition approx. **80 seminars on invitation** in Universities around the world

Organization of international conferences

Participation in the organizing or scientific committees of a total of **21 international and 6 national conferences**. Are mentioned here first the three most recent ones **organized in Bordeaux**:

1. Chair of the organizing committee of the international conference «ElecNano», June 2013, Bordeaux, <http://elecnano.univ-paris-diderot.fr/conferences/elecnano5/scope>
2. Organizing committee of the international conference «EuroAnalysis 2015», September 2015, Bordeaux, <http://www.euroanalysis2015.com/?lang=en>
3. Organizing committee of the international conference «Electrogenerated chemiluminescence», August 2016, Bordeaux, <https://ecl2016.sciencesconf.org/resource/page/id/3>

Three other conferences for which I'm at the moment very actively involved in the organisation are:

1. XXIV International Symposium on Bioelectrochemistry and Bioenergetics, July 2017, Lyon, France, http://www.bes2017.fr/org_comm.html
2. 12th meeting «ECHEMS 2017», June 2017, Milano Marittima, Italy, <http://www.old.chem.au.dk/echems/index.html>
3. «(A)SYMETRIE», May 2017, Bordeaux, <https://iuf2017.sciencesconf.org/>