

D a m i e n F é r o n

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Service de la Corrosion et du Comportement
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Career

- Since 2010: Professor at INSTN (*Institut National des Sciences et Techniques Nucléaires* (French National Institute of Nuclear Techniques and Sciences))
- Since 2008: Director of research at CEA
- Since 2003: Deputy Head of the « *Service de Corrosion et du Comportement des Matériaux dans leur Environnement, SCCME* » (CEA Corrosion Department at CEA-Saclay)
 - 1998-2002: Head of the « *Laboratoire d'Etude de la Corrosion Aqueuse, LECA* » (Laboratory of Aqueous Corrosion CEA- Saclay)
 - 1994-1998: Head of the « *Laboratoire de Physico-Chimie et Corrosion* » (Laboratory of corrosion and physico-chemistry, CEA-Fontenay-aux-Roses)
 - 1987 – 1994: Deputy Head of the “*Laboratoire d'Essais Technologiques de Corrosion*” (Laboratory of technological test of corrosion, CEA-La Hague)
 - 1982-1987: Researcher at the “*Laboratoire d'Essais Technologiques de Corrosion*” (Laboratory of technological tests of corrosion, CEA-La Hague)
 - 1979-1982: Researcher at the « *Section d'Etude des Métaux Liquides* » (Liquid metal research group, CEA-Cadarache)

Education

2004: *Diplôme d'Habilitation à Diriger des Recherches* (Specific French diploma to be Professor)

1979: *Docteur-Ingénieur de l'Institut National Polytechnique de Toulouse* (PhD)

1976: *Ingénieur de l'Institut du Génie Chimique de Toulouse* (Chemical Engineering Master degree)

Member of the following scientific or technical societies:

European Federation of Corrosion (EFC)

President (2017-2018)

Vice-President (2015-16)

Chairman of the working party “nuclear corrosion” (EFC WP4, 2002-2016),

Chairman of the Science and Technology Advisory Committee (STAC, 2007-2013)

World Corrosion Organisation (WCO) – Member of the board of administrators

Centre Français de l'Anticorrosion (CEFRACOR) since 1983

Chairman of the section on microbial influence corrosion (1998-2003)
National Association of Corrosion Engineers (NACE) since 1993
Société Française d’Energie Nucléaire (SFEN – French nuclear society) since 1994
Elected at the technical section technique N°2 on material since 2002
International Corrosion Council (since 2000, French representative)
The International Society of Electrochemistry since 2005

Publications

Patents: 6

Books: editor or co-editor of 23 books, proceedings and special issues

Articles: author or co-author of more than 70 publications in international journals

Invited talks: more than 90 plenary conferences, invited lectures, keynote lectures...

Some specific scientific and education actions (selection)

Member of the scientific or organization committees of international conferences on nuclear power chemistry (NPC-Nice 1994, NPC-Avignon 2006, NPC-Paris, 2012), of the Fontevraud international conferences (Fontevraud 2006, Avignon 2010, 2014 & 2018), International workshops Radiolysis & electrochemistry (2010, 2012, 2014), of QMN meetings- Quantitative Micro-Nan Approach to predict SCC of Fe-Cr-Ni alloys (2010 to 2013), of the Flow Accelerated Corrosion (FAC2014, FAC 2016),

Member of the Eurocorr Scientific Committee since 2004 and Eurocorr co-Chairman (2009-2013)

Founder member of the following international workshops/conferences:

- Long-term prediction of corrosion damage in nuclear systems (LTC) (first edition at Cadarache - France in 2001, 7th edition planned at Nancy, France 2019)
- “Long-Term Performance of Cementitious Barriers and Reinforced Concrete in Nuclear Power Plant and Radioactive Waste Storage and Disposal” NUCPERF 2006 & 2012 at Cadarache, AMP 2010 in Toronto
- Minos workshops on nuclear materials (First edition Saclay 2012)
- School on « modelling of corrosion » (one week with lectures in the morning and practice on computer in the afternoon), since 2011.
- Fukushima Research Conference on “Corrosion Prediction and Mitigation for key components of Fukushima Daiichi NPS”, 27-29 November 2017, Tomioka, Japan

University:

- ✓ INSTN Masters "*Matériaux pour les structures et l’Energie*" (Materials for Energy & Structures, MSE) and "*Material Science for Nuclear Energy*" (MaNuEn)
- ✓ Master "*Genie des procédés et bioprocédés*" (chemical and biochemical engineering) at the University "Paris-Saclay"
- ✓ Lectures given at French Universities of La Rochelle (since 2008), Lyon (INSA, since 2010), Paris (ENSCP-since 2010), and at Pennstate University (USA, 2010), University of Berkeley (USA, 2013 & 2015), Tohoku University (Japan, 2016), ...

Evaluation committees (selection):

Member of the evaluation committees of

- ANR (French Research Agency, since 2010),
- ANVUR (Italian evaluation research agency, 2012),
- the Proactive Specialists' Panel of Nuclear Regulation Authority (NRA, 2012),
- the PMDM Program for the Aging Management (2011, 2012 & 2013, Tohoku University, Japan),
- European program Perform 60 (2010-2014)
- the CIGEO project of ANDRA (France, 2012 -2013),
- the Advisory Board of the Material Performance Centre of The University of Manchester, GB, (2012),
- the Review of the industrial research Chair in radiation induced corrosion (University of Western Ontario, Canada, 2015),
- the peer review of the NWMO copper corrosion program (Canada, 2016),...

Member of the “editorial board” of the following journals: “Biofouling” (2009-2011), “Advances in Materials Science” (2010-2014), “Materials and Corrosion “(since 2009), “European Physical Journal – Nuclear Sciences and Technologies (EPJ-N, since 2015), the NPJ Materials Degradation (2018)

Awards

2007: “Grande Medaille” of the CEFRACOR

2009: NACE Fellows Honor

2014: “les Lauriers de l’INP-Toulouse”

2016: Lee Hsun Lecture Award (IMR, Chinese Academy of Sciences, Shenyang, Chine)

2017: National Honor (*Chevalier dans l’ordre des Palmes Académiques*)