



## **Prof. ALAIN TRESSAUD**

### **Curriculum Vitae**

**Research Director CNRS, Emeritus**

**Former-President, European Academy of Sciences**

**Founder and Member of the Scientific Committee, French Fluorine Network-CNRS**

### **CAREER**

- Dr. 3rd cycle, Univ. Bordeaux (1967)
- Dr. es Sciences Physiques, PhD, Univ. Bordeaux (1969)
- NATO Fellow, Univ. California, Berkeley [Prof. Neil Bartlett] (1972)
- Maître de Recherche, CNRS (1976)
- Research Director, CNRS (1982) (Emeritus, since 2009)

### **MAJOR RESEARCH FIELDS**

- Solid State Chemistry & Materials Sciences
- Fluorine Chemistry, Fluoride Materials and Mixed-Anion Compounds (synthetic routes and physical characterizations)
- Carbon-Fluorine Systems; Graphite Intercalation Compounds (halide- and fluoride-based)
- Modification of The Properties of Materials by Surface Treatments (rf-plasma enhanced fluorination on polymers, ceramics, metals, composite materials).
- The highlights of the scientific production and international recognition can be summarized:
  - o More than 360 papers in International Journals and 12 internationalized patents,
  - o More than 65 invited lectures in International symposia and more than 60 invited seminars in Industry or University centers,
  - o Numerous cooperative programs in 12 different countries,
  - o Invited Editor of 7 special issues of scientific journals,
  - o More than 20 contributed chapters in books,
  - o Editor of 12 books, including being the Editor-in-Chief of the book series “*Advances in Fluorine Science*” (2006-2008), and “*Progress in Fluorine Science*” (2015-2019), Elsevier.

### **SCIENTIFIC ACTIVITIES, AWARDS & EDITORIAL DUTIES**

- NATO fellow, Univ. California, Berkeley [Prof. N. Bartlett] (1972)
- Member, National Scientific Committee CNRS, Paris (1995-2000)
- Associate Scientist, Institute Jozef Stefan, Ljubljana, Slovenia (since 1998)
- Invited Scientist at

- o University California, Berkeley (1982)
  - o Philipps Universität, Marburg (1982)
  - o Kyoto University (1986)
  - o Universidad La Laguna, Spain (1991)
  - o NPL, New Delhi, (1994)
  - o Aichi Institute Technology, Japan (2000)
- Invited Professor, Kyoto Univ. During several months(2009).
  - Founder and chairman, “CNRS French Network on Fluorine” (2002 -2008)
  - Scientific administrator of the *International Henri Moissan Prize* (since 2006)
  - President (2017-18), “*European Academy of Sciences*”, EURASC, Belgium (fellow since 2007), now Vice-President (2018-)
  - *Grand prix CEA de l’Académie des sciences* (2008)
  - Member, “*Academia Scientiarum & Artium Europaea*”, Austria (since 2009)
  - Member, Executive Committee, *Fluorine Division*, American Chemical Society (2009)
  - “*Award for creative work in fluorine chemistry*”, American Chemical Society (2011)
  - “*Henri Moissan International award*” (2012)
  - Regular cooperative programs within European Community, USA, India, Japan, Russia.
  - Member international boards of J. Fluor. Chem., Elsevier (since 1996), International & European Symposia on Fluorine Chemistry (ISFC, ESFC since 1994), Intercal. Chemistry (ISIC since 1994).
- Organization - as Chairman or co-Chairman- of many international meetings:
    - o 9<sup>th</sup> ISIC, Arcachon (1997)
    - o 13<sup>th</sup> ESFC), Bordeaux, (2001)
    - o Symposium in honor of Prof. N. Bartlett, 224<sup>th</sup> ACS Meeting, Boston, (2002)
    - o French-Japanese Seminars on Fluorine Chemistry (FJSF): Sarlat, France (1993), Paris (2003), Kyoto (2005), Nice (2015) Les Eyzies (2019)
    - o Intersiberian International Seminars on Advanced Inorganic Fluorides (ISIF), Novosibirsk (2003), Tomsk (2006), Vladivostok(2008)
    - o Centenary of Henri Moissan’s Nobel Prize, Paris (2006)
    - o Novel bonding and structural modalities in Inorganic Fluorine Chemistry, 234<sup>th</sup> ACS Meeting, Boston, (2007)
    - o FMEC-1, Bordeaux(.2010) FMEC-2, Paris (2013)
    - o Vice Chairman 1<sup>st</sup> IISFC, Delhi (Feb.2012); 2<sup>nd</sup> IISFC, Hyderabad (2014)
    - o Honorary Chairman 17<sup>th</sup> ESFC, Paris (2013)
    - o 1<sup>st</sup> South-African Fluorine Conference, Cape Town (2016)
    - o Symposia of the European Academy of Sciences, Brussels (2016), Lisbon (2017), Bielefeld (2018)
- Professional memberships
    - o Société Française de Chimie (since 1974; Distinguished Member, 2015)
    - o American Chemical Society, Fluorine Division (since 1987)
    - o Fluorine Group of the RSC (since 2002)

- Editorial duties:

- o Co-Editor of the book « *Advanced Inorganic Fluorides* », Elsevier (2000)
  
- o Editor-in-Chief of the series of books “*Advances in Fluorine Science*”, Elsevier, Amsterdam: Vol. 1 and Vol. 2: *Fluorine & the Environment* (2006), Vol. 3: “*Fluorine & Health*” (April 2008)
  
- o Editor “*Functionalized Inorganic Fluorides*”, Wiley-Blackwell, Oxford, UK, (2010)
  
- o Guest Editor of several issues of *Mol. Cryst. Liq. Cryst.* (1998), *J. Fluor. Chem.* (2001, 2002, 2006, 2007, 2012), *Solid State Sciences* (2002). Special issues of “*Actualité Chimique*”, the SCF journal, devoted to “*Fluorine chemistry and fluoride materials*”, (2006, 2017)
  
- o “*Le fluor: histoire, applications et paradoxes*”, (in French) CNRS-Editions (2011)
  
- o Editor-in-chief of the books series: “*Progress in Fluorine Science*“, Elsevier, (2016-2019), including Vol.1 – “*Photonic and Electronic Properties of Fluoride Materials*”, 2016 / Vol.2 – “*New Fluorinated Carbons: Fundamentals and Applications*”, 2016 / Vol.3 – “*Modern Synthesis Processes and Reactivity of Fluorinated Compounds*”, 2016 / Vol.4 - *Fluorine in Life Sciences: Pharmaceuticals, Medicinal Diagnostics, and Agrochemicals*, (2018)
  
- o “*Fluorine, a paradoxical element*”, A. Tressaud, Elsevier (2019).