



Dominique LUNEAU, Professor

Université Claude Bernard Lyon 1

Birth date and place: July 2nd, 1959, Bagnoux, France

Family status : Married, 3 children

Nationality : French

◆ **FACULTY ADDRESS**

Université Claude Bernard Lyon 1

Groupe de Cristallographie et Ingénierie Moléculaire

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◆ **EDUCATION**

1994 : Habilitation, Grenoble University, France*

1987 : Ph. D: Coordination Chemistry, Toulouse University, France**

1983 : Engineer in Chemistry, Clermont-Ferrand, France

* **Habilitation**

Title : Molecular magnetic materials based on coordination chemistry of nitroxide radicals.

Place : CEA-Grenoble

Referees : E. Belorizky, J-J Girerd, J-P Petit, A. Rassat, P. Rey

Date and place: March 21st, 1994 at Grenoble University

** **Ph. D.**

Title : Manganese polynuclear complexes with Schiff base ligands. Structures and magnetic studies.

Defence referees : P. Cassoux, Y. Dartiguenave, J. Galy, J-J. Girerd, J. Livage, J. Reedijk, J-P. Tuchagues.

Manuscript referees: G. Gaudemer, J-P. Sauvage

Date and place: October 27th 1987 at Toulouse University

◆ **ACADEMIC INTERESTS**

As a coordination chemist I am mainly involved in molecular magnetism and crystallography. From a general point of view I am interested in using coordination chemistry for the engineering of molecular materials with dedicated physical properties.

◆ **RESEARCH EXPERTISE**

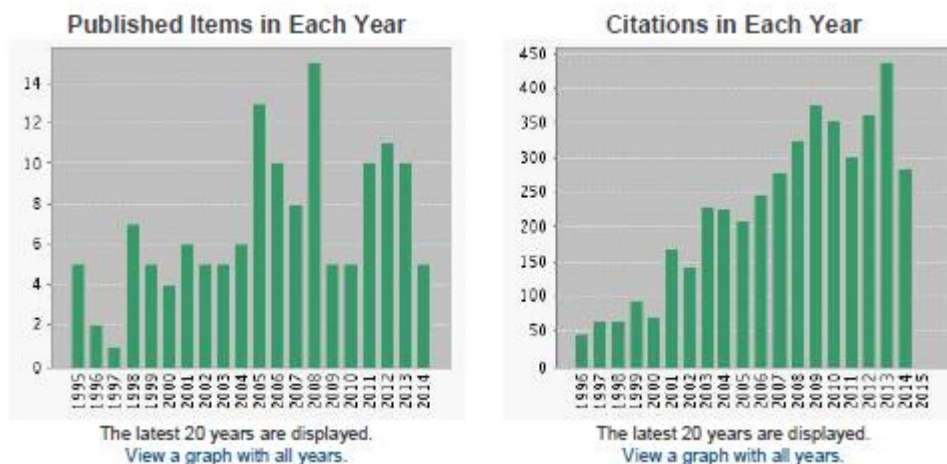
Coordination chemistry, crystallography, molecular magnetism, molecular engineering

◆ PUBLICATIONS

H Factor : 37

150 publications (of which 39 Inorg. Chem., 7 JACS., 12 Dalton. Trans., 4 Angew. Chem, 4 Chem. Eur. J.)

Data from web of science (13/10/2014).



◆ PROFESSIONAL EXPERIENCE:

• **Since 2002** **Professor in Chemistry at Lyon University (France)**
Institute: Université Claude Bernard Lyon 1
Research topic : Crystallography, molecular magnetism, molecular engineering

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• **1990 - 2002** **CNRS Associate Researcher (France)**
Institute: CEA- Grenoble, France
Research topic : Molecular magnetism based on nitroxide free radical complexes.

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• **1988-90:** **JSPS post-doctoral researcher (Japan)**
Institute: Institute for Molecular Science, Okazaki, Japan
Supervisors Prs. Sigeo Kida & Hisashi Okawa
Host Scientist: Pr. Hitoshi Ohtaki
Research topic : Molecular magnetism based on *vic*-dioximes as bridging ligands .

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• **1984-88:** **Ph. D. in Coordination Chemistry**
Laboratory : CNRS Coordination Chemistry Laboratory, Toulouse, France.
Supervisor : Pr. Jean-Pierre Tuchagues
Research topic : Biomimetic modelling of the photosystem II water oxidation site
Dissertation title: Manganese polynuclear complexes with N4O2, N6O2 et N2O3 donor site ligands. structures et magnetic studies.

◆ LONG STAY IN FOREIGN INSTITUTES

1988-1989 : Institute for Molecular Science, Okazaki, Japan (2 years).

2001 : Université de Montréal, Canada (9 months).

◆ **COORDINATOR OF SCIENTIFIC EVENTS**

- 1994 :** CONCOORD-GECOM 94 (French conference) , Grenoble
2006 : MolMat2006 : International Symposium on Molecular Materials (Lyon)
2012 : Award ceremony from French Chemical Society (SCF) at Lyon.
2013 2013 SCF Coordination chemistry symposium
Ongoing: Lyon steering Committee of "2014 International Year of Crystallography"

◆ **MEMBER OF ORGANISATION COMMITTEES OF SCIENTIFIC EVENTS**

- Since 2006:** Int. Advisory Committee of Int. Symposium on Molecular Materials (MOLMAT)
2007 : 11th Louis Néel Colloquia (Lyon)
2009-2013: Spring meeting of the Rhône-Alpes section of the French Chemical Society (SCF).
2011 National Advisory Committee of *The third European Conference on Molecular Magnetism (ECMM11)* Paris, November 22-25, 2011

◆ **ACADEMIC RESPONSABILITIES**

- Member of the National Committee of Universities for Organic-Inorganic Chemistry (since 2008)
Member of the Organic-Inorganic commission at Université Claude Bernard Lyon 1 (since 2002)

◆ **COLLABORATIONS AND CONTRACT**

- Since 1999 :** **Collaboration with Prof. C. REBER (Université de Montréal, Canada).**
Supports : Centre Jacques Cartier, Foreign French Ministry, Centre de Coopération Interuniversitaire France Québec (CCIFQ) and Fond France-Canada
- Since 2000 :** **Collaboration with Prof. V. AHSEN (Gebze Institute of Technology, Turquie)**
Support: CNRS – TUBITAK (Programme Bosphore)
- Since 2004 :** **Collaboration avec le Prof. MIKURIYA (Kwansei Gakuin University, Japon)**
Support: Japan Society for Promotion of Science (JSPS)
- Since 2003 :** **Joint Research Laboratory with CEA (Laboratoire de Recherche Conventionné)**
- 2003-2006 :** **Région Rhône-Alpes (Coordinator)**
Title project : Multifonction molecular magnetic materials.
Partner : UCBL, ENS-Lyon, DRFMC - CEA-Grenoble, Institut Néel - CNRS-Grenoble.
- 2005-2006 :** **Partner of the network of excellence MAGMANet.**
- 2006-2009 :** **Partner of an ANR (Coordinator Pascal Tixador, CRETA , Grenoble)**
Project title: "Superconducting material and device for energy (MADISUP)".
Partenaires : UCBL, Institut Néel- CNRS-Grenoble, LMGP- Minatec-Grenoble, Symme-Annecy, NEXAN et IMPHY alloys
- 2006-2007 :** **Région Rhône-Alpes (Coordinator Dominique Luneau)**
Project title : Magnetic Molecules (MolMag)
Partenaires : UCBL, ENS-Lyon, Institut Néel - CNRS-Grenoble
- 2007-2010 :** **ANR Blanche (Coordinator Jean-Michel Gillet, Ecole Centrale , Paris)**
Project title : Spin and charge densities Analyses
Partners : Ecole Centrale, Université de Nancy, LLB-Saclay,
- 2008-2009 :** **Collaboration avec le Prof. L. CHIBOTARU (Katholieke Universiteit Leuven, Belgium)**
Project title : New approaches for single molecule magnets

◆ **TEACHING ACTIVITIES**

Coordination chemistry and crystallography

LICENCE

L2 : Inorganic Chemistry – Crystalline Solid State (24h)

L3 : Cristallography and Crystal Structure(36h)

L3: Coordination Chemistry (24h)

MASTER

M1 : Supramolecular Chemistry (24h)

M2 : Crystallography and X ray diffraction experiments (18h00)

Chemical Engineering (ESCPE Lyon)

2nd year : X ray Diffraction and fluorescence (12h00)

Ecole Normale Supérieure de Lyon

M1 : Crystallography (20h)

◆ **PhD SUPERVISION**

1994-1997: Karine FEGY

1997-2000: Christophe LESCOP

1999-2003: Catherine HIREL

2003-2006: Christophe ARONICA

2004-2007: Sarah PETIT

2006-2009: Ana BORTA

2008-2011: Olga IASCO

2010-2013: Anatole GAVRILUTA

2011-2014: Anthony LANNES ongoing

◆ **SHARED PhD SUPERVISION**

1990-1993 : Fabrice Lanfranc de Panthou

2007-2010 : Amel MESSAI (Algeria)

2010-2013 : Nabila MATOUSSI (Tunisia)

2010-2013 : Jade CLARISSE

2010-2014 : Emel ÖNAL (Turkey) ongoing

◆ **POST-DOCT. SUPPERVISION**

Cara Evans (USA) : Chateaubriand Fellowship (**1999** : - months).

Cédric Desroches (French) : Région Rhône-Alpes fellowship(**2004** : 12 months).

Fatma Yuksel (Turkish) : Région Rhône-Alpes et turkish fellowship (**2005-2007** : 16 months).

Stéphanie Morlens (French) : ANR fellowship (**2006-2007** : 12 months)

Yuri Chumakov (Moldova) : IIF Marie-Curie fellowship (**2006-2008** : 24 months).

Vadim Druta (Moldova) Région Rhône-Alpes fellowship (**2007-2008** : 10 months).

Ghenadie Novitchi (Moldova) : IIF Marie-Curie fellowship (**2010-2012** : 24 mois).

Kira Vostrikova (Russian) : IIF Marie-Curie fellowship (**2012-2014** : 24 mois).