

Jérôme KIEFFER

Doctor in Chemistry

Address :
5 rue de la vigne
04200 Sisteron
Tel : 06 82 22 14 60

Email : Jerome.Kieffer@terre-adelie.org

French
Born in 1976
Married, one daughter
Driving licence



TECHNICAL SKILLS

Computing

- ▷ *Programming* : Python (10 years), Shell, Fortran.
- ▷ *System administration* of Linux workstations and servers for 10 years.
- ▷ *High performance computing* : design and set-up of clusters.
- ▷ *Network administration* : FTP, NFS, Samba, and web servers.
- ▷ *Embedded devices* : data acquisition programming through RS232 port.
- ▷ *Publication tools* : L^AT_EX, Office, The Gimp, HTML.

Experimental techniques

- ▷ *Instrumentation* : Python program for electrochemical data acquisition.
- ▷ *X-ray techniques* : lab. single-crystal and synchrotron powder diffraction.
- ▷ *Structure determination* : from X-ray diffraction (SIR, ShelXTL, FOX, Rietveld refinement).
- ▷ *Other chemical analyses* : NMR, IR, UV-vis and mass spectroscopies.

Molecular modeling

- ▷ *Graphical interfaces* : Scigress, Materials Studio, Cerius².
- ▷ *Computing engines* : Gaussian'03, MOPAC2009, Castep, Turbomole.
- ▷ *Scientific databases* for crystallography and bibliography.

Languages

- ▷ *French* : native.
- ▷ *English* : fluent.
- ▷ *German* : basic.

EDUCATION

- 2001-2004** UNIVERSITÉ JOSEPH FOURIER, GRENOBLE I : PhD Thesis.
Synthesis and characterisation of metallo-polymers and poly-metallo-rotaxanes :
towards molecular data storage.
- 1997-2001** ÉCOLE NORMALE SUPÉRIEURE DE CACHAN :
Magistère de Physico-Chimie Moléculaire.
▷ Master in organic chemistry
▷ Master in physical chemistry
- 1994-1997** LYCÉE FUSTEL DE COULANGES, STRASBOURG :
*Scientific Classes préparatoires P' and PC**.

PROFESSIONAL EXPERIENCES

- Since** SCIENTIFIC INFORMATION MANAGEMENT GROUP ; Sanofi Sisteron.
Sept. 2006 ▷ *Computational chemistry as support to process development.*
- Jan. 2005-** CRYSTALLOGRAPHY LABORATORY ; Sanofi-Aventis Montpellier.
June 2006 ▷ *Polymorphism of active principles studied by crystallography and in silico simulations.*
- Oct. 2001-** MOLECULAR ELECTRONIC GROUP ; CEA Grenoble.
Sept. 2004 ORGANO-MINERAL CHEMISTRY LABORATORY ; ULP Strasbourg.
▷ *Synthesis and study of molecular nano-objects for optics and electronics.*
- Sept. 2000-** STRUCTURAL ORGANIC CHEMISTRY LABORATORY ; University Paris XI.
Jun 2001 ▷ *Synthesis and study of lyotropic mesophases as NMR medium.*
- May-Aug.** INORGANIC CHEMISTRY LABORATORY ; University College Cork (Ireland).
1999 ▷ *Synthesis of Pt[II] complexes for anti-cancer use.*
- June-Aug.** ENGLER BUNTE INSTITUTE ; University of Karlsruhe (Germany).
1998 ▷ *Synthesis of photosensitisers to ¹O₂ derived from Bengal rosa.*

PERSONAL EXPERIENCES

- 2007-2008** Webmaster of the climbing club of Sisteron, Roc-et-Falaise.
- 2003-2005** President of the GUILDE, Grenoble Linux user group.
- Nov. 2003** Organisation of a congress (4JLG) on embedded computing and real time applications under Linux, Grenoble.
- 1998-2001** System administrator of the network of the Cachan campus (500 computers).
- Spare-time activities** Hiking, climbing, ski-touring and photography.
Computer programming in the field of photography.