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Nationality : French
Born the 27th November 1983

EDUCATION

From 2007 to now : PhD in progress under the supervision of Dr Gwénaël Rapenne
NanoSciences Group, CEMES - CNRS Laboratory, Toulouse
"Synthesis of technomimetic molecules for applications in nanomechanics"

2002 – 2007 : Student of the University Paul Sabatier (Toulouse)
2007 : Master 2 in Molecular Chemistry, ***Mention TB (1st/43)***
2006 : Master 1 in Molecular Chemistry and Physical Chemistry, ***Mention TB (1st/58)***
2005 : Licence (BsC) in Molecular Chemistry, ***Mention B***
2004 : DEUG in Chemistry, ***Mention B***

RESEARCH EXPERIENCES

From January to June 2007
Dr Gwénaël Rapenne, NanoSciences Group, CEMES - CNRS, Toulouse
"Synthesis of an asymmetric molecular motor"

July 2006
Prof. Michel Delmas, Fine Chemistry, catalysis and polymers, ENSIACET, Toulouse
"Synthesis and Reticulation of resins"

June 2005
Dr Bénédicte Garreau de Bonneval, Molecules and Materials, LCC - CNRS, Toulouse
"Synthesis of nickel (IV) complexes for photovoltaic applications"

PUBLICATIONS

[1] ***A family of electron-triggered molecular motors based on aromatic building blocks***
H.-P. Jacquot de Rouville, G. Vives, G. Rapenne, *Pure Appl. Chem.* **2008**, *80*, 659-667.

[2] ***Synthesis and analytical resolution of chiral pyrazoles from dihydrocarvone***
H.-P. Jacquot de Rouville, G. Vives, E. Tur, J. Crassous, G. Rapenne, *New J. Chem.* **2009**, 2, 293-299.

[3] ***Prototypes of molecular motors based on star-shaped organometallic ruthenium complexes***
G. Vives, H.-P. Jacquot de Rouville, A. Carella, J.-P. Launay, G. Rapenne, *Chem. Soc. Rev.* **2009**, in press.

ORAL COMMUNICATION

[1] ***Control of the rotation at the atomic scale in technomimetic molecules***
Frontiers meeting, Heraklion, Crete (24/06/08)

POSTERS

[1] ***Design and synthesis of an asymmetric molecular motor***
H.-P. Jacquot, G. Vives, J.-P. Launay, G. Rapenne
International Nanoscience Student Conference, Silkeborg, Denmark (7-10 July 2007)

[2] ***Towards an asymmetric molecular motor***
H.-P. Jacquot, G. Vives, J.-P. Launay, G. Rapenne
Frontiers meeting, Heraklion, Crete (23-26 June 2008)

STUDENTS SUPERVISION

From January to July 2009
Adeline PUJOL, Master 2 Student, University of Toulouse
"Synthesis of a new family of nanovehicules"
From January to July 2008
Damien VILLENAVE, Master 2 Student, University of Toulouse
"Synthesis of a molecular motor equipped with a photoinduced brake"
From February to April 2008
Hayato SAKAI, Exchange Student (PhD level), Research Institute of Nara (NAIST), Japan
"Synthesis of a diazobenzene indazole"
From October 2007 to April 2008
Garrett THOMPSON, Exchange Student (MSc level), North Carolina University, Chapel Hill, USA
"Synthesis and coordination of chiral phosphines"

TEACHING EXPERIENCES

2007 - 2010 **:** Assistant teacher at the University Paul Sabatier Toulouse :
Practicals in the *agrégation de chimie*,
Praticals in organic chimistry, 2nd year,
Praticals in thermodynamics, 1st year,
Praticals in kinetic, 1st year.

REFERENCES

Prof. Jean-Pierre LAUNAY, CEMES / CNRS, 29 rue Jeanne Marvig, 31055 Toulouse,
Tel: + 33 5 62 25 78 32, E-mail: launay@cemes.fr
Dr Christian JOACHIM, CEMES / CNRS, 29 rue Jeanne Marvig, 31055 Toulouse
Tel: + 33 5 62 25 78 35, E-mail: joachim@cemes.fr
Dr Gwénaël RAPENNE, CEMES / CNRS, 29 rue Jeanne Marvig, 31055 Toulouse
Tel: + 33 5 62 25 78 41, E-mail: rapenne@cemes.fr

TECHNICAL SKILLS

Organic and inorganic synthesis including manipulation of air sensitive compounds (schlenk technicques)
UV-vis, IR, NMR spectrocospies, Electrochemistry
Molecular Modeling, Semi-Empirical Methods, DFT Calculations

LANGUAGES

French : Native language
English : Fluent (TOEIC(08) test score 825/990 points)
German : Basics