

GLOAGUEN Yann

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EDUCATION

2007-10: PhD in coordination chemistry, "Laboratoire de Chimie de Coordination" (LCC, Toulouse, France).

2005-07: "Ecole Nationale Supérieure de Chimie de Montpellier" (ENSCM, the National School of Chemistry, Montpellier, France) leading to the postgraduate chemical engineering degree. Specialization in molecular chemistry.

2004-05: Master I in chemistry and physical chemistry, with first class honours, University of Pau (France).

WORK EXPERIENCE

2007-10 (3 years): PhD in coordination chemistry under the supervision of *Sylviane Sabo-Etienne* and *Gilles Alcaraz*, LCC, Toulouse (France).

"Activation of boranes. Synthesis of bifunctional ligands containing a Lewis Base site and a borane linked by a rigid spacer. Study of their coordination chemistry with late transition metals (d^6, d^8, d^9)".

organometallic chemistry - boron - hydrogen - ruthenium, iridium - catalysis

2009: 3 months placement in *R.T. Baker's* group, University of Ottawa (Canada).

Gave tutorial classes (6h) to undergraduates at Paul Sabatier University, Toulouse (France). Organic and inorganic chemistry.

2007 (6 months): Work placement at Sanofi-Aventis, Montpellier (France). Catalysis. Development Service, *J-F. Rousseau's* team. *"Iron-catalysed heteroaryl-heteroaryl cross coupling"*.

2005 (4 months): Graduate training. Organic chemistry. *Prof. M. Makosza's* group, Institute of Organic Chemistry, Warsaw (Poland). *"Reactivity of γ -allylic halocarbanions"*.

2004 (2 months): Undergraduate training. Main group elements. "Laboratoire d'Hétérochimie Fondamentale et Appliquée" *Prof. G. Bertrand's* group under the supervision of *Tsuyoshi Kato*. *"Synthesis of a phosphasilallene"*.

ASSOCIATED SKILLS

Laboratory techniques

- Experiments under inert atmosphere using standard Schlenk and glovebox techniques.
- Spectroscopic analysis: solid and liquid multinuclear NMR (solution, solid), X-Rays, IR.
- HPLC, GC/MS, High throughput facilities.
- Standard organic chemistry techniques.

Computer literacy

Microsoft Office (reports, presentations), Mercury (Crystallography), MestRec (NMR), Sci finder, Beilstein (Databases), ChemDraw (redaction, schemes).

Languages

English: Conversational Spanish: Conversational

PUBLICATIONS AND CONFERENCES

Publications

"Phosphinoborane and sulfidoborohydride as chelating ligands in polyhydride ruthenium complexes: agostic σ -borane versus dihydroborate coordination"
Y. Gloaguen, G. Alcaraz, A-F. Pécharman, E. Clot, L. Vendier and S. Sabo-Etienne, *Angew. Chem. Int. Ed.*, **2009**, *48*, 2964-2968.

"*Tert*-Butylborane: a bis (σ -B-H) ligand in ruthenium hydride chemistry"
Y. Gloaguen, G. Alcaraz, L. Vendier, S. Sabo-Etienne, *J. Organomet. Chem.*, **2009**, *694*, 2838-2841.

Oral Presentations

"Coordination σ de boranes dans des complexes de ruthénium" SAJEC Batz-sur-mer (France), 20-22/10/2008 (won the price of the "flash communication")

"Chimie de coordination des boranes. Complexes σ et borohydrures" "XVIII journées SFC Grand Sud-Ouest", Pau (France), 26/11/2008

REFEREES

Dr S. Sabo-Etienne
and Dr. G. Alcaraz
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ACTIVITIES AND INTERESTS

Trips abroad (Europe, Africa)
Practice of team sports: Football, Basketball
Used to play guitar (Bass) in a group
Reading, Cinema