

Jake Dalphond

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EDUCATION

2000-present **Master of Sciences in Polymer Chemistry**, McGill University

Research Supervisor: Professor Hanadi F. Sleiman

Thesis Title: “Synthesis and Self-assembly of Dicarboximide Polymers by Living Ring-Opening Metathesis Polymerization”

1997-2000 **Bachelor of Sciences in Chemistry**, University of Montréal

AWARDS

MDS Pharma award for best Organic Chemistry poster presentation, Fourth Annual Chemistry and Biochemistry Graduate Research Conference, Concordia University, 2001

Best in Show poster award, 34th Inorganic Discussion Weekend (IDW), University of Waterloo, 2001

RESEARCH EXPERIENCE

September 2000 – present

McGill University, Chemistry Department

- ***Graduate Student / Research Assistant in Polymer Chemistry***

Experience: synthetic polymer chemistry, transition metal catalysis, organic synthesis, biomimetic polymers, polymer characterization, polymer self-assembly, supramolecular chemistry, design of molecular recognition polymers, characterization of nanostructures.

- ***Teaching Assistant in Chemistry***

Experience: supervision of groups of 20 students in the General Chemistry Laboratory.

May 1999 – September 1999

Institut National de la Recherche Scientifique (INRS) Énergie et matériaux

- ***Research Assistant in Polymer Chemistry and Plasma Physics***

Experience: design of biomaterials, conducting polymer synthesis, polymer surface activation by cold plasma discharge, free radical polymerization.

May 1998 – September 1998

Pulp and Paper Research Institute of Canada (Paprican)

- ***Research Assistant in Pulp and Paper Chemistry***

Experience: analysis of various pulp treatments in industrial paper recycling facilities.

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EXPERIMENTAL SKILLS

Living polymerization, organometallic chemistry, HPLC, gel permeation chromatography (GPC), dynamic light scattering (DLS), transmission electron microscopy (TEM), NMR, FTIR (liquid, solid), UV-VIS spectroscopy, glove box techniques, Schlenk and vacuum line techniques.

PUBLICATIONS

- J. Dalphond, H. S. Bazzi, K. Kahrim and H. F. Sleiman, "Synthesis and Self-Assembly of Polymers Containing Dicarboximide Groups by Living Ring-Opening Metathesis Polymerization", *Macromolecular Chemistry and Physics*, 2002, in press.
- J. Dalphond, H. Bazzi, K. Kahrim and H. F. Sleiman, "Synthesis of Polymers and Block Copolymers Containing Bioactive Dicarboximide Groups by Controlled Ring-Opening Metathesis Polymerization", *Polymer Preprints*, 2002, in press.

CONFERENCE PRESENTATIONS

- J. Dalphond, H. S. Bazzi, K. Kahrim and H. F. Sleiman, "Synthesis and Self-Assembly of Polymers Containing Bioactive Dicarboximide Groups by Controlled Ring-Opening Metathesis Polymerization", poster presented at the 2002 Symposium International en Synthèse Organique et Organométallique de l'Université de Montréal (SISOUM), May 2002
- J. Dalphond, H. S. Bazzi, K. Kahrim and H. F. Sleiman, "Synthesis and Self-Assembly of Biomimetic Polymers by Living Ring Opening Metathesis Polymerization", poster presented at the 34th Inorganic Discussion Weekend (IDW), University of Waterloo, Waterloo, ON, Oct. 2001.
- J. Dalphond, H. S. Bazzi, K. Kahrim and H. F. Sleiman, "Hydrogen Bond-Mediated Self-Assembly of Imide Containing Polymers Generated by Living Ring-Opening Metathesis Polymerization", poster presented at the Fourth Annual Chemistry and Biochemistry Graduate Research Conference, Concordia University, Montreal, QC, Sept. 2001.
- J. Dalphond, H. Bazzi, K. Kahrim and H. Sleiman, "Hydrogen Bond-Mediated Self-Assembly of Imide Containing Polymers Generated by Living Ring-Opening Metathesis Polymerization", talk presented at the 2001 SACIQ Meeting (Symposium Annuel de Chimie Inorganique du Quebec), Sherbrooke, QC, Aug. 2001.

AFFILIATION

2002-present Member, **American Chemical Society**

EXTRACURRICULAR ACTIVITIES

2001 **Bishop's University**

Member of the organizing committee for the Quebec's Annual Symposium of Inorganic Chemistry

1998-2000 **University of Montréal**

Executive member of the association of chemistry students (coordinator of student cafe)

ADDITIONAL SKILLS

- French and English (fluent)
- Extensive sales experience (e.g., salesperson in electronic retail store)
- High level computer skills (e.g., computer troubleshoot, component installation, basic programming)