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Current Job Title: Directeur de Recherche DR1 (CNRS)

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Professional Experience

2013-Present *Directeur de Recherche DR1, C2P2/CNRS UMR 5265, Villeurbanne, France*

- Laboratory director
- Responsible for Polymer Reaction Engineering programme

2011-2013 *Directeur de Recherche DR2, C2P2/CNRS UMR 5265, Villeurbanne, France*

- Responsible for Polymer Reaction Engineering programme
- Scientific coordinator for Chemistry and Processes of Polymerisation group

2007-2011 *Professor and CRC Tier-1 Research Chair in Polymer Reaction Engineering*

- Queen's University, Chemical Engineering Department, Kingston, ON, Canada

2002-2007 *Directeur de Recherche DR2, LCPP UMR 140/C2P2 UMR 5265, Villeurbanne,*

- Responsible for Polymer Reaction Engineering programme

1997-Present *Professor, ESCPE-Lyon*

- Assigned to LCPP UMR 140 (precursor to C2P2 UMR 5265)
Responsible for the "Polymer Reaction Engineering" teaching (ESCPE) and research (LCPP)

1993-1997 *Associate Researcher, CNRS UMR 140, Villeurbanne, France*

- Creation of Polymer Reaction Engineering Group

1989-1992 *Research Engineer, ELF-Aquitaine /ATOCHEM, Mont & Nancy, France*

- Modelling of olefin polymerisation processes.

Education

1997 Habilitation à diriger des recherches (HDR) Université Claude Bernard Lyon1

- Title: "Génie des procédés de polymérisation"

1985-1990 Ph.D. (Chemical Engineering), University of Massachusetts, Amherst MA, USA

- Title: "The Conceptual Design of Polymerisation Processes" – Creation of an expert system for polymer process design.

1980-1985 B.Eng. (Chemical Engineering), McMaster University, Hamilton ON, Canada

Scientific Production and Supervisory Work (Summary)

Publications (Peer review): 206

Publications (Other) : 38

Book Chapters: 10

Books: 1 (authored)

Seminars and invited conferences: 74

Oral Presentations (Submitted abstracts): 93

Poster Presentations: 133

MSc (or eq.): 22

PhD (co-) supervised: 33; 4 current

PDF supervised: 10

Research Interests and Vision

My research programme has its roots in Polymer Reaction Engineering: the application of fundamental Chemical Engineering tools to understand, quantify and control polymerisation reactions. Knowledge is used to improve existing processes, and to design new processes and materials that respond to the requirements of society as a whole and to our industrial partners. The major focus of my work is in the areas of polyolefins and specialised latex production:

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|------------------|---|
| Polyolefins | <ul style="list-style-type: none">• Mass transfer mechanisms in catalytic olefin polymerisation;• Heat transfer mechanisms;• Particle morphology development and fragmentation;• Specialised reactor design for experimental investigations |
| Latex Production | <ul style="list-style-type: none">• High solid content latex products;• Complex particle size distributions and latex rheology• Innovative processes for emulsion production;• Miniemulsions and hybrid materials;• Stabilisation and coagulation of latexes; coagulator design.• Modelling of particle growth;• Reactor scale-up |

Major Research Contributions

- 1. Strategies for High-Solid-Content Latex (HSLC).** We have produced latexes with solid contents above 75% v/v but with extremely low viscosities for high flow applications (Boutti, S. et al. *Polymer*, **46**, (2005) 1211; *Polymer*, **46**, (2005) 1223). This was made possible through the application of population balance models to understand the dynamics of particle nucleation (Fortuny, M. et al., *AIChE J.*, **51**, 2521 (2005)). These projects have formed the collaboration with other industrial partners on metal primers, paper coatings, paint binders, and PVC. Also done modelling for these systems (e.g. Vale and McKenna, *Prog. Polym. Sci.*, **30**(10), 1019; *Ind. Eng. Chem. Res.*, **46**, 643 (2007); *Ind. Eng. Chem. Res.*, **48**, 5193 (2009)).
 - 2. Process Innovation in Emulsification.** Monomer emulsification is an extremely promising means of making high-value products with the same ingredients as standard emulsion polymers. Typically, a polymerisable dispersion of droplets is created using high intensity mixers (Lopez, A et al., *Ind. Eng. Chem. Res.*, **47**, 6289 (2008)). We have looked at devices that can be used as industrial alternatives to ultrasonication (type lab scale approach), including rotor stators and static mixers (U. El-Jaby et al., *Macromol. React. Engng.*, **2**, 356 (2008)). In conjunction with in situ surfactants, static mixers consume less energy than a high pressure homogeniser (El-Jaby et al., *AIChE J.*, **57**, 1585 (2011))
 - 3. Specialised reactor design for the study of olefin polymerisation.** We adapted the concept of stopped flow to polymerisation at very short times (40 ms) under pressure (15 bars) for the study of particle fragmentation process (Di Martino et al, *Macromol. React. Engng.*, **1**, 284 (2007)) and showed that nascent polymer structures and kinetics are very different from those observed after a few seconds (Di Martino et al. *Macromol. React. Eng.*, **1**, 165 (2007)). Further variations on this original concept (Silva et al., *Macromol. Rapid. Commun.*, **26**, 1846 (2005)) have allowed us for the first time to directly measure the surface temperature of growing particles in realistic situation (Tioni et al., *AIChE J.*, **58**, 256-67 (2012)).
 - 4. Challenging the preconceived notion of how to model particle growth and transfer phenomena in olefin polymerisation.** For several years starting in the early 80s, researchers used relatively simplistic models that assumed instantaneous fragment, uniform particle growth and mass transfer by diffusion of monomer from the bulk phase to the active sites. We showed that morphology needs to be taken into consideration (e.g. Martin et al., *Chem. Eng. J.*, **87**, 89 (2002)) and that mass transfer can occur by convection inside the in addition to the accepted diffusion mechanism (Kittelsen et al, *Chem. Eng. Sci.*, **56**, 3997, (2001)). In addition, and perhaps more importantly, we were the first group to begin to model particle morphology using a force balance inside the particles and to begin to relate the development of particle morphology to the rate of reaction, polymer properties and local conditions (Di Martino et al., *Macromol. React. Engng.*, **1**, 338 (2007)). This concept has now been taken up by a number of other groups to create some very powerful models.
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Awards

- **2013 Prime d'excellence scientifique**
CNRS
- **2007 Tier 1 Canada Research Chair**
Canada Research Chairs Programme – Government of Canada

Editorial Work

- **Associate Editor, 2009 – present**
Canadian Journal of Chemical Engineering
- **International Advisory Board,**
Polyolefin Journal, 2012 – present
Chemical Ing. Tech., (Wiley-VCH Verlag GmbH) 2011- present
Macromolecular Materials & Engineering (Wiley-VCH Verlag GmbH) 2005 – present
Macromolecular Reaction Engineering (Wiley-VCH Verlag GmbH) 2006 – present
Industrial & Engineering Chemistry Research (ACS) 2005-2007
- **Editorial Board**
Polymer Reaction Engineering (Marcel Dekker, N.Y.) 2001-03.
ChemBioEng Reviews (Wiley-VCH Verlag GmbH), 2014-
- **Guest Editor**
Macromolecular Symposia, Volume 285, 2009
Polymer, Special issue on Polymers in Dispersed Media, 2005
Chemical Engineering Science, Special Issue ECOREP Conference, 2001

Review Work

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| • ACS Macroletters | Langmuir |
| • AIChE J | • Macromolecular Reaction Engineering |
| • Canadian J of Chemical Eng | • Macromolecular Chemistry and Physics |
| • Chemical Engineering J | • Macromolecular Materials and Engineering |
| • Chemical Engineering Processing | • Macromolecular Rapid Communications |
| • Chemical Engineering Science | • Macromolecular Symposia |
| • Chemical Engineering & Technology | • Macromolecular Theory and Simulations |
| • Colloid and Polymer Science | • Macromolecules |
| • Colloids Surfaces A: Physicochemical and Engineering Aspects | • Polymer |
| • European Polymer Journal | • Polymer Bulletin |
| • Ind. & Engineering Chemistry Research | • Polymer International |
| • J Applied Polymer Science | • Polymer J |
| • J Catalysis Part A | • Polymer Reaction Engineering |
| • J Coatings Technology | • Polymers for Advanced Technology |
| • J Colloid and Interface Science | • Polyolefins Journal |
| • J Plastic Film & Sheeting | • Rheology |
| • J Polymer Science Part A: Polym. Chem | • Techniques de l'Ingenieur |

Expertise/Project Evaluation

- **FONDS QUÉBÉCOIS DE LA RECHERCHE SUR LA NATURE ET LES TECHNOLOGIES,**
Evaluation of research proposals for NanoQuebec
 - ⇒ 2014: Président du Comité d'experts- Évaluation infrastructure en nanotechnologies
 - ⇒ 2012: Président du comité thématique 803D – Chimie matériaux
 - ⇒ 2011: Membre du Comité d'experts- Évaluation infrastructure en nanotechnologies
 - ⇒ 2010: Président du comité sur les nanotechnologies du bois
 - ⇒ 2009: Membre du comité d'évaluation
- **AERES – Agence d'évaluation de la recherche et l'enseignement supérieur**
 - ⇒ 2011: Member of evaluation committee

- **ATLANTIC CANADA OPPORTUNITIES AGENCY**
⇒ 2010: External evaluator for research proposals
- **KING FAHD UNIVERSITY OF PETROLEUM & MINERALS (KFUPM)**
Dhahran, Saudi Arabia
⇒ 2009-2011: Evaluation of scientific projects and requests for funding
- **AGENCE NATIONALE DE RECHERCHE**
⇒ 2009, 2010: Evaluation of requests for funding
- **MINISTRY OF RESEARCH AND INNOVATION OF ONTARIO**
2009, 2010: Early Research Awards
- **REGION LORRAINE**
⇒ 2007-2010: Expert evaluator for Pôle : "MATERIAUX, ENERGIE, PROCEDES, PRODUITS"
⇒ 2006: Evaluation of *Contrat Plan d'Etudes Régional*
- **COMMISSION EUROPEENNE**
⇒ 2008: Expert for LARGE (7th Framework Program)
⇒ 2007: Expert for SMALL (7th Framework Program)
- **IKERBASQUE: BASQUE FOUNDATION FOR SCIENCE**
⇒ 2008: Evaluation of dossiers of candidates for research positions at Ikerbasque
- **Natural Science and Engineering Research Council**
⇒ 2003: Evaluation strategic research project proposals
- **SWISS NATIONAL SCIENCE FOUNDATION**
⇒ 2013, 2003: Evaluation research proposals
- **THE RESEARCH COUNCIL OF NORWAY**
⇒ 2002: Evaluation for program "Knowledge-building projects with user involvement"

Conference Organisation and Other Service

- **Conference/Symposium Chair, Organiser**
WORKING PARTY ON POLYMER REACTION ENGINEERING
Cochair of 2012 PhD Workshop
⇒ Lyon: 2012

INCOREP/ECOREP (www.incorep.org)
(International conference on the reaction engineering of polyolefins, *previous the* European conference on the reaction engineering of polyolefins).
Creator and principle organiser of Ecorep/Incorep conference series:
⇒ Lyon (ECOREP I, II, III): 2000, 2003, 2005
⇒ Montréal, Canada (INCOREP I): 2008
⇒ Ferrara, Italy (INCOREP II): 2013

POLYMERS IN DISPERSED MEDIA (PDM, all events Lyon, France)

Chair and/or co-organiser of PDM in:

- ⇒ PDM 2012 with Bernadette Charleux, Elodie BOURGEAT-LAMI and Hamid ELASSAIRI
- ⇒ PDM 2004, with Elodie BOURGEAT-LAMI et Hamid ELASSAIRI

RENCONTRES du CENTRE JACQUES CARTIER (all events Lyon, France)

- ⇒ 2012: 25ième Rencontres du Centre Jaques Cartier: EMULSIFICATION, Modeling, Technologies and Applications. Member of the scientific committee
- ⇒ 2007: 20ième Recontres du Centre Jacques Cartier: Properties, Monitoring and Control of Polymerisation Reactors. Co-Chairman with Dr. Nida Sh'eibat Othman
- ⇒ 2003: 16ième Recontres du Centre Jacques Cartier: Modelling, Optimisation & Control of Polymer Reactors. Co-Chairman with Dr. Nida Sh'eibat Othman.
- ⇒ 1998: 11ième Recontres du Centre Jacques Cartier, Polymer Reaction Engineering On-line.

WORLD CONGRESS on CHEMICAL ENGINEERING: WCCE8

⇒ 2009, Montreal, Canada: Chair of the Symposium on Advanced Polymer Composites and Hybrids

40TH IUPAC INTERNATIONAL SYMPOSIUM ON MACROMOLECULES, MACRO 2004

⇒ 2004, Paris, France: Co-chair (with Prof. W. Reed, Tulane U., New Orleans, LA) of the symposium Polymerization processes, control and monitoring, Paris, France

3rd WORLD CONGRESS on EMULSIONS

⇒ 2003, Lyon, France: Chair on symposium “Emulsions in polymer production”

Scientific/Organising Committees

- ⇒ 2014, Congrès Francophone du Génie des Procédés (Scientific Committee), Agadir, Marocco
- ⇒ 2013, Congrès de la Société Française du Génie des Procédés (Organising, Scientific Committees), Lyon, France
- ⇒ 2008, 2014 Prague, Czech Republic: POLYMER COLLOIDS: FROM DESIGN TO BIOMEDICAL AND INDUSTRIAL APPLICATIONS:
- ⇒ 2006, Halifax, Nova Scotia, Canada: POLYMER REACTION ENGINEERING VI, (Technical Chairman, “Process Monitoring and Control / On-Line Sensors”)
- ⇒ 2006, London, England: FLUID MIXING 8
- ⇒ 2003, Québec, QC, Canada: POLYMER REACTION ENGINEERING V

Other Service

- ⇒ Chairman of the “WORKING PARTY ON POLYMER REACTION ENGINEERING” of the European Federation of Chemical Engineering (EFCE), 2006-2012

Consulting

- ATOCHEM/ARKEMA (FR);
- Total Petrochemicals (BE);
- Exxon (USA);
- D.S.M. (NL);
- Sabic (KSA);
- Sharq (KSA);
- Borealis (NO);
- Sherwin Williams (USA).
- INEOS/BP CHEMICALS (FR/UK)
- ECOPETROL (CO)
- SHARQ (RAS)
- MITSUBISHI CHEMICALS (JP)
- BASF (DE)
- BASF (USA) - Catalysis
- TARGOR (Actuellement CBI Novolen Technology Holdings) (DE)
- DuPONT Canada (CA)

Teaching and Short Courses

Graduate level courses

IFP School/ENSPM – Rueil Malmaison, France

Course: Advanced Technology in Polymers, Petrochemicals and Plastics, Niveau Mastère

Year(s): 1994-present

Hours: 18-24 hours/year

Queen’s University – Kingston, ON, Canada

Course: CHEE 807 - Advanced Topics in Chemical Engineering: From Petrochemicals to Plastics (with Dr. R Pelletier)

Year(s): 2009

Hours: 36 hours

Course: CHEE 807 - Advanced Topics in Chemical Engineering: Polymer Process Design

Years(s): 2008
Hours: 18 hours

Course: CHEE 903 - Polymerisation in Dispersed Media (MSc/PhD)
Years(s): 2009-2010
Hours: 18 hours/year

Course: CHEE 904 - Olefin Polymerisation Processes (MSc/PhD)
Year(s): 2010
Hours: 18 hours

Université Claude Bernard Lyon-I - Villeurbanne, France

Course: Génie de la polymérisation
Years(s): 1996-2004
Hours: 15-30 hours/year

Undergraduate courses

Queen's University – Kingston, ON, Canada

Course: CHEE 330 - Heat and Mass Transfer
Year(s): 2010
Hours: 36

Course: CHEE 317 - Mass Transfer and Mass Transfer Unit Operations
Year(s): 2009-2010
Hours: 36 hours/year

ESCPE-Lyon

Course: Génie de la polymérisation
Years(s): 1996-present
Hours: 14-28 hours/year

Intensive short courses for professionals (* "In-house" course)

16. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Waterloo, Canada), May 25-28, 2013, SABIC SRT, Riyadh, Kingdom of Saudi Arabia
15. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Waterloo, Canada), May 28-30, 2012, DUBAI, UAE
14. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Waterloo, Canada), Dec 28-30, 2011, ECOPETROL, Piedecuestra, Columbia
13. *Polyolefin Reaction Engineering, Nov 16-17, 2011, Borealis, Linz, Austria
12. Polyolefin Reaction Engineering (with Profs. JBP Soares and LC Simon of U. Waterloo, Canada), May 23-27, 2011, Lyon, France.
11. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Waterloo, Canada), May 18-20, 2011, SABIC/Lanxess/DSM, Elsloo, LN
10. Polyolefin Reaction Engineering (with Profs. JBP Soares and LC Simon of U. Waterloo, Canada) April 12-16, 2010, Houston, Texas, U.S.A.
9. *Polyolefin Reaction Engineering, (with Prof. JBP Soares of U. Waterloo, Canada) Dec. 13-17, 2008 SHARQ, Al-Jubayil Industrial City, Kingdom of Saudi Arabia.
8. Polyolefin Reaction Engineering (with Profs. JBP Soares and LC Simon of U. Waterloo, Canada) April 19-23, 2008, Dubai, United Arab Emirates.
7. *Procédés de Polymérisation et Applications, ARKEMA, Lacq, France, 5-7 Dec 2007
6. *Procédés de Polymérisation, ARKEMA, Lacq, France, November 20-22, 2006.
5. Polyolefin Reaction Engineering (with Profs. J Soares and LC Simon of U. Waterloo, Canada) November 15-17, 2006, Lyon, France.
4. Polyolefin Reaction Engineering (with Profs. J Soares and LC Simon of U. Waterloo, Canada) July 10-15, 2006, Porto Alegre, Brazil.
3. Polyolefin Reaction Engineering (with Profs. J Soares, L Simon, U. Waterloo; C. Kiparissides, Aristotle University Technology, Greece) 17-19 June, 2005, Lyon, France.
2. Polymer Reaction Engineering. Short Courses for the Professional Education Department (Formation Continue) of the ESCPE-Lyon (2002, 2005)
1. Polyolefin Reaction Engineering. OSPT Short Course, Twente University, Enschede, Netherlands (2002 and 2003)

Appendix 1. Funding Sources

Public Sector Projects (Figures in parentheses indicate amount available to our research team)

1. ANR – Agence Nationale de Recherche (France)

2013-2017 – SCALE-UP: Innovative approaches to process scale-up and scale-down for latex production (~490 k€)

- Role: Project leader

2007-2011 – REACT-OP: Reactors, Reactions and Structures in Olefin Polymerisation: A novel investigation of the world's most important polymers (~330 k€)

- Role: Writing of project proposal (official coordinator R. SPITZ), and coinvestigator

2. Dutch Polymer Institute

2013-2017 – HIPSTER: High Impact Polypropene: Structure Evolution and impact on Reaction (~75 k€ per annum)

- Role: Project leader, coinvestigator with V. MONTEIL (C2P2)

2012-2016 – GEOCAT: Investigation of the impact of the geometry of catalyst supports on olefin polymerisation (~70 k€ per annum)

- Role: Project leader, coinvestigator with V. MONTEIL (C2P2)

2009-2013 – IMPOR: Improved Models for Polyolefin Reactors (~70 k€ per annum)

- Role: Project leader, coinvestigator with Professor J. Kuipers (TU Eindhoven)

2008-2012 – SITE COUNT: Measuring active site concentration of olefin polymerization catalysts (~65 k€ per annum)

- Role: Project leader, coinvestigator with Dr. C. BOISSON (C2P2), Professor V. Busico, (U. Naples)

2008-2011 – START-UP: The study of the role of the support, support preparation and initial conditions on olefin polymerisation (~65 k€ per annum)

- Role: Project leader, coinvestigator with V. MONTEIL (C2P2)

3. Canada

2010-2012 – MITACS Accelerate: Innovative coagulator design for the production of advanced composite materials (~43 k€ per annum)

- Role: Principle Investigator

2009-2011 – Ministère de la recherche et Innovation de l'Ontario fonds post doctoraux (~50 k€)

2009 – Conseil de recherches en sciences naturelles et en génie du Canada, Infrastructure et Outis de recherche (~120 k€)

- Role: Principle Investigator

2007-2011 – Canada Research Chair - Tier 1 (~160 k€ per annum)

- Role: Chair Holder

2007-2011 – NSERC Discovery grant. (~27 k€ per annum)

- Role: Principle Investigator

2007 – Canadian Foundation for Innovation: Infrastructure grant (~200 k€)

- Role: Principle Investigator

2007 – Queen's University: Start-up grant (~75 k€)

- Role: Principle Investigator

2007 – Ministry of Research and Innovation of Ontario: Ontario Research Fund (~200 k€)

- Role: Principle Investigator

4. European Commission

2005-2007 - Integrated Project (FP6) 2005-2009. NAPOLEON: Nanostructured Waterborne Polymer Films with Outstanding Properties. (~539 k€)

- Role: Project partner and investigator

2001-2005 – Cost-Shared Research and Technical Development (FP5): "POLYPROP - Polyolefins: Improved Properties, reactor Control and Operability (~220 k€)

- Role: Project coordinator and coinvestigator

1997-2000 – BRITE-EURAM (FP4): "CATAPOL : The Reaction Engineering of Heterogeneously Catalysed Polymerisations". (~190 k€)

- Role: Project coordinator and coinvestigator

5. Fonds France-Canada pour la Recherche (Ambassade de France au Canada)

2004-2005 – University of Waterloo: "Development of Hybrid Polyolefin-clay Nanocomposites" (10 k€)

- Role: Coinvestigator with Prof. J. Soares, Prof L. Simon (U. Waterloo)

2001-2002 – University of Ottawa: "High Quality Latex Dispersions," (10k€)

- Role: Coinvestigator with Prof. M. Dubé (U. Ottawa)

6. France-Brazil

2001-2003 – CNRS-CNPq: FAENQUIL, Universidad de Lorena, SP: "Latex à Haut Taux de Solide: Production, suivie en ligne et mise au point de tensioactifs réactifs" (1 PhD co-supervised with Prof. J.C.C. Pinto, UFRJ Rio de Janeiro)

- Role: Coinvestigator with Prof. A.M. dos Santos (U. Lorena)

1998-2000 – CAPES-Cofecub: "Capteurs en ligne pour reacteurs de polymerisation" (2 doctorants cosupervisés avec le Brésil)

- Role: Coinvestigator with. Profs. G. FEVOTTE (France) and J.C. Pinto (Brasil)

Industrial/Private Sector Financing

2014 Toray Plastics Europe (Saint-Maurice-de-Beynost, France)

2013 Sherwin Willimas Company (Cleveland, OH, USA)

2012 Toray Plastics Europe (Saint-Maurice-de-Beynost, France)

2011 Kaplan Energies (Pierre Bénite, France)

2010 SABIC KSA (Ryadh, Kingdom of Saudi Arabia) : Role of support properties on metallocene performance

2009 DuPont Canada (Kingston, ON, Canada) : Structured Latexes

2008 BASF (Ludwigshafen, DE) : High solid content latexes

2007 Larfage (St Quentin Falavier, France) : Additives for concrete and plaster

2007 Arkema (Lacq, France) : Modelling of MMA cast sheet polymerisation

2006 Toray Plastics Europe (Saint-Maurice-de-Beynost, France) : Adhesives for PET films

2005 ATOFINA (Lacq, France) : High solid content acrylic latexes

2005 Xerox Research Centre of Canada (Mississauga, ON, Canada) : Emulsification process for polymerisable dispersions

2003 TOTALFINA (Feluy, BE) : Polymerisation of olefins on supported catalysts

2003 CRAY VALLEY (Villers St Paul, France) : Bimodal latex for paint binders

2003 INEOS(Lavera, France) : Nascent polymerisation of olefins

2003 SOLVIN (Tavaux, France) : High Solid Content PVDF latex

2002 ATOFINA (Pierre Bénite, France) : Emulsion polymerisation of vinyl chloride

2002 ATOFINA (Lacq, France): calorimetry for pilot plant reactor control

2001 Japan Polychem (Mitsushima, JP) : High impact polypropylene copolymers

1999 ATOCHEM (Serquigny, France) : Modelling of High solid content acrylic latexes

1997 ATOCHEM (Serquigny, France) : High solid content acrylic latexes

Appendix 2. Peer-reviewed publications cited in the ISI Web of Knowledge

In review

B. Browning, N. Sheibat-Othman, I. Pitault, T.F.L. McKenna, "A 2D Observer to Estimate the Reaction Rate in a Stopped Flow Fixed Bed Reactor for Gas Phase Olefin Polymerisation" Submitted to AIChE J.

2013

206. R. Udagama, C. de la Heras Alarcon, J. L. Keddie, J. G. Tsavalas, T.F.L. McKenna, "Acrylic-Alkyd Hybrids: Secondary Nucleation, Particle Morphology and Limiting Conversions" (To Appear, *Macromol. Reac. Engng.*)
205. V. Tisse, C. Boisson, T.F.L. McKenna, "Activation and deactivation of the polymerisation of ethylene over rac-EtInd₂ZrCl₂ and (nBuCp)₂ZrCl₂ on an activating silica support" To appear, *Macromol. Chem. Phys.*
204. Montree Namkajorn, Arash Alizadeh, Ekasith Somsook, Timothy F.L. McKenna, "Condensed Mode Cooling for Ethylene Polymerisation : The Influence of Inert Condensing Agent on the Polymerisation Rate," To appear, *Macromol. Chem. Phys.*
203. E. Degrandi-Contraires, R. Udagama, C. Creton, T.F.L. McKenna, E. Bourgeat-Lami, Christopher Plummer, "Influence of composition on the morphology of polyurethane/acrylic latex particles and adhesive films". *Int. J. Adhesion Adhesives*, 2014, **50**, 176-182 (DOI 10.1016/j.ijadhadh.2014.01.025)
202. T.F.L. McKenna, B. Charleux, E. Bourgeat-Lami, F. D'Agosto, M. Lansalot, "Novel Technologies and Chemistries for Waterborne Coatings," *J. Coat. Tech. Res.* (DOI 10.1007/s11998-013-9554-7).
201. M.A. Bashir, V. Monteil, V. Kanellopoulos, M. Al-Haj Ali, T.F.L. McKenna, "Estimating Partial Molar Volumes of Penetrants and Polymers in Macromolecular Mixtures using Mixture Densities Predicted by Sanchez-Lacombe Equation of State" (To Appear *Ind Eng Chem Res*)
200. A. Alizadeh, T.F.L. McKenna, "Condensed mode cooling for ethylene polymerization: The influence of the heat of sorption" *Macromol. Symp.* 2013, **333**, 233-241
199. A. Alizadeh, T.F.L. McKenna, "Condensed mode cooling in ethylene polymerisation: droplet evaporation" *Macromol. Symp.* 2013, **333**, 242-247, DOI: 10.1002/masy.201300092
198. T.F.L. McKenna, C. Boisson, V. Monteil, E. Ranieri, V. Tioni, "Specialised tools for a better comprehension of olefin polymerisation reactors" *Macromol. Symp.* 333(1) 233-241, 2013
197. J. Pohn, M. Cunningham, T.F.L. McKenna, "Scale-up of Emulsion Polymerisation Reactors. Part II – Simulation Results and Interpretations," *Macromol. Reac. Engng.*, DOI 10.1002/mren.201300011
196. J. Pohn, M. Cunningham, T.F.L. McKenna, "Scale-up of Emulsion Polymerisation Reactors. Part I – Development of a model framework," *Macromol. Reac. Engng.*, DOI 10.1002/mren.201300010
195. T.F.L. McKenna, T. Pascal, T. Lys, "High Solid Content Emulsions of PVC: Scale-down of an industrial process for an enhanced understanding of particle formation. Part 1. Introduction and scale-down," *Chem. Eng. Tech.*, 2013, 36(7), 1165-1170 (DOI: 10.1002/ceat.201300045)
194. T.F.L. McKenna, T. Pascal, T. Lys, "High Solid Content Emulsions of PVC: Scale-down of an industrial process for an enhanced understanding of particle formation. Part 2. Preliminary analysis of seed production," *Chem. Eng. Tech.*, 2013, 36(7), 1171-1178. (DOI: 10.1002/ceat.201300047)
193. T.F.L. McKenna, T. Pascal, T. Lys, "High Solid Content Emulsions of PVC: Scale-down of an industrial process for an enhanced understanding of particle formation. Part 3. An analysis of the production of bimodal products," *Chem. Eng. Tech.*, 2013, 36(7), 1179-1186 (DOI: 10.1002/ceat.201300048)
192. M.M. Ranieri, J.P. Broyer, T.F.L. McKenna, F. Cutillo, C. Boisson, "Site Count: is a high-pressure quenched flow reactor suitable for kinetic studies of metallocene catalysts in ethylene polymerization?" *Dalton Trans.* 2013 Jul 7;42(25):9049-57 (DOI: 10.1039/c3dt33004d).
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Appendix 4. Conférences, Séminaires et Participation au Congrès

Plenary Lectures/Key Note addresses/Invited Oral Presentations (Conferences)

2013

23. Advances in Polyolefins, Santa Rosa California, 13-16 Octobre

2012

22. ChemReactor XX, Luxembourg City, Luxembourg, 3-7 December, 2012, "Olefin Polymerisation Reactors: What kind of problems do we face in olefin polymerisation reactors, and what kind of lab tools can we use to study them?"
21. Chemelot International Polyolefins Symposium 2012, Maastricht, The Netherlands, "Specialised tools for the study of the first instants of catalysed olefin polymerisations. Some conclusions and speculations on what's next."
20. 8th International Workshop on Heterogeneous Ziegler-Natta Catalysis, JAIST, Kanazawa, Japan, Keynote Address, "The study of olefin polymerisation at short times: gas and solution phase studies using specially adapted reactors,"

2011

18. 61st CShE Conference, London, Ontario, Canada, Keynote Address, "The study of olefin polymerisation at short times: Studies using specially adapted reactors."
17. 61st CShE Conference, London, Ontario, Canada, "Continuous Miniemulsification Using Static Mixers,"
16. International Polymer Colloids Group Conference, Durham, NH, Keynote Address, "Options for Efficient Miniemulsification and Continuous Processes."
15. UK Colloids Forum, London, UK, "Continuous Miniemulsification Using Static Mixers."
14. Advances in Polymer Science and Technology II, Linz, Austria, "The study of olefin polymerisation at short times: Studies using specially adapted reactors."

2008

13. 47th Microsymposium of Polymer Colloids: from Design to Biomedical and Industrial Applications, Prague, Czech Republic, "Emulsification for latex production."

2007

12. 5th International Workshop on Heterogeneous Ziegler-Natta Catalysis, JAIST, Kanazawa, Japan, "Growth and evolution of particle morphology: an experimental & modelling study."
11. Advances in Polyolefins: 2007, Santa Rosa CA, USA "Particle Growth & Evolution of Morphology: A survey and some open questions."

2006

10. World Polymer Congress, 41st International Symposium on Macromolecules (IUPAC MACRO 2006), Rio de Janeiro, Brazil, "High Solid Content Latex Systems."

2005

9. CHEMPOR 9, Coimbra, Portugal, Keynote Address, "High Solid Content Latexes: Process development via experiments supported by modelling."

2004

8. METCON 4, Houston, Texas, USA, "Toward a Morphological Model of Polyolefin Particle Growth."
7. 40th World Polymer Congress/IUPAC, Paris, France "Use of conductivity measurements to monitor particle formation in emulsions."

2003

6. Gordon Research Conference on Polymer Colloids, Tilton, NH, Etats-Unis, "High Solids Content Latexes."

2002

5. Journée Thématique de la Fédération des Polyméristes Lyonnais, Lyon, France, "Nouveau Modèle pour la croissance des particules pendant la polymérisation des olefins."

2001

4. Leuven Summer School on Catalysis, Ostend, Belgique, "Modelling of particle growth in olefin polymerisation"
3. NASCRE: North American Symposium on Chemical Reaction Engineering, Houston, TX, USA, "Progress and Challenges in Describing Particle Growth for Polyolefins."

2000

2. Conference on Insertion Polymerization at BASF Aktiengesellschaft, Ludwigshafen, Germany, "Modelling Transfer Phenomena in Heterogeneous Catalysts for Polyolefins," Sept. 28-29, 2000.
1. Polymer Reaction Engineering IV, Palm Coast, Florida, USA "Reaction Engineering Aspects of Polyolefins."

Invited Presentations (Industrial groups)

2013

27. ExxonMobil Chemicals, Baytown, TX, "Condensed mode cooling in polyethylene reactors," November 21
26. SABIC Technical Centre, Riyadh, Kingdom of Saudi Arabia, "New perspectives in polyolefin research – Reaction Engineering"

2012

25. INEOS France, Scientific Day, "Specialised reactor technology for the study of polyolefins."

2011

24. Polymer Latex, Marl, Germany, "Different technologies for miniemulsification."

2010

23. Sherwin Willimans Company, Cleveland OH, USA, "High Polymer Content Dispersions: A review and some recent results."
22. Xerox Research Centre of Canada, Mississauga, ON, Canada, "Technologies for high solid content latex."

2009

21. Cytec Surface Specialties, Drogenbos, BE, "Miniemulsification technologies."

2008

20. Sherwin-Williams Company, Cleveland, OH, "Different Routes to High Solid Content Latexes."
19. GRUPO KUO, S.A.B, Mexico, " High Solid Content Latex Systems."
18. BASF GmbH, Ludwigshafen, Germany, "Emulsions, miniemulsions and reactors for latex production."
17. SulzerChemTech, Winterthur, Switzerland, "Emulsification for latex production: Static Mixers, Rotor Stators, Nanocomposites and Future Directions."
16. Xerox Research of Canada, Mississauga ON, " Emulsification for latex production: Rotor Stators, Static Mixers, Nanocomposites and Future Directions."

2005

15. SABIC Europetrochemicals, Geleen, Pays Bas, "Polyolefin Research at the LCPP: Single particle growth and morphology."
14. SABIC Europetrochemicals, Geleen, Pays Bas, "Study of Impact copolymer particle growth."
13. Innovene NOH, Bruxelles, Belgique, "Polyolefin Reaction Engineering: Fundamental Particle Level Research."
12. BCC-SINOPEC, Beijing, China, "Study of Impact Copolymer Growth."

2004

11. Xerox Research Centre of Canada, Mississauga, Canada, "Miniemulsion Polymerisation: A look at fundamentals, static mixing and some interesting (potential) end-uses."
10. Borealis OY, Porvoo, Finland, "The Morphology of Polyolefin Particles."
9. Borealis OY, Porvoo, Finland, "Improvements in the production of high impact polypropylene,"

2003

8. Rhodia Recherches, Aubervilliers, France, "Génie de la polymérisation en milieu divisé."

2002

7. Centre de Recherche Fina, Feluy, BE, "Vers une meilleure modélisation de la croissance des particules pendant la polymérisation des oléfins."
6. Statoil, Trondheim, Norway, "Production of High Solids Content, Low Viscosity Latex for Pressure Sensitive Adhesives."
5. BP Chimie, Lavéra, France, "Modeling of Particle Growth, Fragmentation and final Morphology."
4. EUROFORUM Latex synthétiques et artificiels – Propriétés, Applications et Innovations, "Comment fabriquer des latex à haut taux de solide et à faible viscosité."

2001

3. "Improved Particle Growth Models for Olefin Polymers," Invited Seminar, ExxonMobil Chemicals, Baytown, Texas, 5 January, 2001.

2000

2. Targor GmbH, Ludwigshafen, Allemagne, "Future directions for research in polyolefins,"

1. Exxon Chemicals, Baytown Texas, "Modelling of heat transfer on polymerising particles: an overview with CFD."

Invited Presentations (Academic Institutions)

2013

24. University of Houston, Chemical Engineering Department, "Polyolefin Reactors," November 22.
23. KAUST, Jeddah, Saudi Arabia, "Chemical Engineering Tools for a Better Understanding of the Polymerisation of Olefins on Supported Catalysts."

2011

22. Université de Strasbourg, Strasbourg, France, "Miniemulsification: Options for Efficient Miniemulsification and Continuous Processes."

2009

21. Ecole Polytechnique de Montreal, Montreal QC, Canada, "Emulsification using static mixers."
20. International Polymer Colloids Group Master Class Series, Il Ciocco, Italy, "An introduction to Polymer Reaction Engineering."

2005

19. Japan Advanced Institute for Science and Technology, Nomi, Ishikawa, Japan, "Single particle growth and morphology for polyolefins."
18. LGC, Toulouse, France, "A look at fundamentals, static mixing and some interesting (potential) end-uses of miniemulsion polymerization."
17. Chinese Academy of Forestry, Nanjing, China, "Recent Advances in Emulsion Polymerisation."
16. Zhe Jiang University, Hangzhou, China, "Single Particle Growth and Morphology Modelling for Polyolefins."
15. Heriot Watt University, Edinburgh, Scotland, "Challenges in Polymerisation in Dispersed Media."

2004

14. Universidad Politecnico de Madrid, Madrid, Spain, "Polymer Reaction Engineering: What is it? Why Bother? A "Forest Talk."
13. University of Porto, Porto, Portugal, "Dynamic Simulation of Particle Formation in Batch Emulsion Polymerization: A New Nucleation Profile."
12. Instituto Superior Tecnico, Lisbon, Portugal "High Solid Content Latices."
11. Journée SFGP sur l'application des MFN aux Réacteurs, Paris, France, "Applications de CFD en génie de la polymérisation: Quelques exemples et beaucoup d'ouvertures."
10. Queen's University, Kingston, Ontario, Canada, "Dynamic Simulation of Particle Formation in Batch Emulsion Polymerization: A New Nucleation Profile."

2003

9. University of Ottawa, Ottawa, Canada, University of Ottawa Research Seminar, "Latex production via emulsions and miniemulsions,"

2000

7. Group on Reactor Technology in Petrochemistry and Polymer Industry, SINTEF, NTNU Gloschaugen, Trondheim, Norvège, "Progress and Challenges in the study of Heat and Mass Transfer during the Production of Polyolefins."
6. University of Western Ontario, "Heat and Mass Transfer during Olefin Polymerisation."
5. Queen's University, Kingston, Ontario, Canada, "Improved Models for Mass Transfer in Heterogeneous Catalysts."

1999

4. University of Sao Paulo, SP, Brazil, "Applications of Non-linear State Estimators in Free Radical Polymerisation."
3. Faculdade de Engenharia Quimica de Lorena, Lorena/SP, Brazil, "Recent Developments in Heat and Mass Transfer during the Polymerisation of Olefins."

1998

2. University of Twente, Enschede, Pays Bas, "State of the art in the modelling of heat and mass transfer during the gas and slurry polymerisation of olefins."

1994

1. University of Twente, Enschede, Pays Bas, "Transport phenomena during the catalysed polymerisation of olefins."

Conferences: Oral Presentations (Selection via Abstract Submissions)

2013

93. J. Pohn, M. Cunningham, T.F.L. McKenna, "Scale-up de procédés de polymérisation et de coagulation," Club Emulsion, Montpellier, France, 26 September
92. A. Alizadeh, M. Namkajorn, E. Somsook, T. F. L. McKenna, "Cosolubility effect during gas phase ethylene polymerisation on supported catalyst: from experimental to modelling analysis," Advances in Polymer Science and Technology, Johannes Kepler University, September 9-11, Linz, Austria
91. M.A. Bashir, M. Al-Haj Ali, V. Kannelopoulos, T.F.L. McKenna, "Modeling of α -olefins Solubility in Semi-crystalline Polyolefins by Combining the Sanchez-Lacombe Equation of State with Elastic Constraints Models", International Conference on the Reaction Engineering of Polyolefins, Sept. 2-5, 2013, Ferrara, Italy.
90. A. Alizadeh, M. Namkajorn, E. Somsook, T.F.L. McKenna, "Effect of n-hexane as inert condensing agent (ICA) during gas phase ethylene polymerization on supported catalyst: from experimental to modeling analysis", International Conference on the Reaction Engineering of Polyolefins, Sept. 2-5, 2013, Ferrara, Italy.
89. T.F.L. McKenna, "Specialised tools for a better comprehension of olefin polymerisation reactors," DECHEMA Workshop on Polymer Reaction Engineering, Hamburg, Germany, May 21-24, 2013
88. T.F.L. McKenna, "Novel technologies for waterborne coatings," Waterborne, High-Solids, and Powder Coatings Symposium, New Orleans LA, USA, Feb 4-8, 2013

2012

87. N.M.B. Smeets, T.F.L. McKenna "Catalytic Chain Transfer in Microemulsion Polymerization," Polymers in Dispersed Media, PDM-2012, April 16-19, 2012, Lyon, France
86. E. Bourgeat-Lami, G.A. Farzi, L. David, J.L. Puteaux, T.F.L. McKenna, "Miniemulsion polymerization of silica-loaded monomer nanodroplets: insight into droplet morphology and nucleation," PDM-2012, April 16-19, 2012, Lyon, France
85. J. Pohn, M. Heniche, L. Fradette, M. Cunningham, T.F.L. McKenna, "Using a Computational Framework to Model the Scale-Up of Polymer Latex Reactors," PDM-2012, April 16-19, 2012, Lyon, France

2011

84. E. Tioni, V. Monteil, T.F.L. McKenna, R. Spitz, "Morphological explanation for unusual PE crystallization behavior at polymerization start-up.," COGEPRA 2011, Grenoble, France

2010

83. E. Tioni, V. Monteil, T.F.L. McKenna, R. Spitz, J.P. Broyer," Gas phase stopped flow polymerization of ethylene on packed bed: start up kinetics of supported metallocene catalysts and characterization of nascent polymers under realistic and controlled conditions" 3rd Blue Sky Conference on Catalytic Olefin Polymerization. 20-23 June 2010 - Hilton Sorrento Palace, Sorrento, Italy
82. J. Pohn, M. Heniche, L. Fradette, M. Cunningham, T.F.L. McKenna, "Computational Analysis of Mixing and Scale-up in Emulsion Polymerization Reactors," 10th International Workshop on Polymer Reaction Engineering, Oct 10-13, 2010, Hamburg, Germany
81. E. Tioni, V. Monteil, T.F.L. McKenna, R. Spitz, J.P. Broyer, "Packed bed minireactor for pulsed gas phase catalytic polymerization: complex interactions between heat transfer and activity in stopped flow ethylene polymerization," 10th International Workshop on Polymer Reaction Engineering, Oct 10-13, 2010, Hamburg, Germany

2009

80. T.F.L. McKenna, "High Solid Content Polyacrylic Latexes via Emulsion and Miniemulsion Polymerisation," Waterborne Coatings Conference, February 19, 2009, New Orleans.
79. Bourgeat-Lami, E., V. Mellon, F. Pardal, J.-L. Puteaux, T.F.L. McKenna, A. Bonnefond, M. Micusik, M. Paulis, J.R. Leiza, E. Schreider, K. Landfester, B. Lohmeijer, "Acrylic/Clay Nanocomposite Latexes: Synthesis, Structure and Properties," European Coatings Congress – 31 March- 2 April 2009, Nüremberg, Germany
78. C. Creton, E. DeGrandi, L. Sonnenberg, R. Udagama, E. Bourgeat-Lami, T.F.L. McKenna, A. Lopez, J.M. Asua, "Mechanical and adhesive properties of nanostructured waterborne pressure-sensitive adhesive films," European Coatings Congress – 31 March- 2 April 2009, Nüremberg, Germany
77. T.F.L. McKenna, U. El-Jaby, M.C. Cunningham, Static mixers for the production of miniemulsions, PRE VIII, Niagara Falls, May 2009.
76. U. El-Jaby, M. Cunningham, T.F.L. McKenna, Progress towards high solid content miniemulsions: Formulation and Process Investigation, IPCG 2009 Conference, July 3-9, 2009

2008

75. G.A.Farzi, E. Bourgeat-Lami, T.F.L. McKenna, "Preparation of silica/polyacrylate nanocomposite latexes", 2d Conference on nanostructured materials – 11-14 March 2008, Kish university, Kish Island, Iran
74. V. Mellon, N. Negrette-Herrera, J.L. Puteaux, T.F.L. McKenna, E. Bourgeat-lami, "Incorporation of Laponite clay platelets into polymer latexes: evidence of clay localization by cryo-TEM imaging", Particles 2008 – 12-14 May 2008, Orlando, USA
73. Sang-Young Shin, T.F.L. McKenna, L.C. Simon, J.B.P. Soares, G. Scholz, "Gas-Phase Polymerization at High Pressure with MMT/TIBA/UOH/ Cp₂ZrCl₂", INCOREP, 22-27 June 2008, Montreal, Canada.
72. E. Degrandi, C. Creton, A. Lopez, J.M. Asua, R. Udagama, E. Bourgeat-Lami, T.F.L. McKenna, E. Canetta, J.L. Keddie, "Waterborne polyurethane-acrylic hybrid nanoparticles by miniemulsion polymerization: mechanical properties of nanostructured films", 48th Micro symposium on Polymer Colloids – 20-24 July 2008, Prague, Czech Republic.
71. E. Degrandi, C. Creton, A. Lopez, J.M. Asua, R. Udagama, E. Bourgeat-Lami, T. McKenna, E. Canetta, J.L. Keddie, "Waterborne polyurethane-acrylic hybrid nanoparticles by miniemulsion polymerization: Design and production of nanocomposite materials" 48th Micro symposium on Polymer Colloids – 20-24 July 2008, Prague, Czech Republic.
70. G.A.Farzi, E. Bourgeat-Lami, T.F.L. McKenna, "Miniemulsions using static mixers: 2. Polymer/silica nanocomposite latexes using static mixers." Club Emulsion, Lyon, France 22-23 September, 2008.

2007

69. U. El-Jaby, T.F.L. McKenna, M. Cunningham, "Miniemulsification: An analysis of the use of rotor stators as emulsification devices," 9th International Workshop on Polymer Reaction Engineering, 7-9 October, 2007, Hamburg, Germany.
68. G.A.Farzi, E. Bourgeat-Lami, T.F.L. McKenna, "Miniemulsion polymerization of methyl methacrylate nanodroplets created by a novel homogenization device: Static mixer" ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007.

2006

67. T.F. McKenna, C. Graillat, S. Boutti, K. Ouzined, "High Solid Content Latexes with Low Viscosity," Waterborne and High Solid Content Coatings – PRA Technology Conference, 7-8 March 2006, Hotel Mercure Royal Crown, Brussels, Belgium.
66. K. Ouzineb, C. Lord, N. Lesauze, C. Graillat, Ph. Tanguy, T.F.L. McKenna, "Homogenisation Devices for the Production of Miniemulsions," Fluid Mixing VIII, 10-12 April 2006, Kings College, London, U.K.
65. N. Negrete-Herrera, M. Pizzone, G. Mouzet, V. Mellon, E. Bourgeat-Lami, T.F.L. McKenna, "Preparation of Styrene/Clay nanocomposites by miniemulsion polymerization," U.K. Polymer Colloids, U. Manchester, Manchester U.K., 11-12 Sept. 2006

2005

64. Ouzineb, K., N. LeSauze, A. Farzi, C. Graillat, T. McKenna, "Generation of miniemulsions with static mixers," 2nd International Conference on Polymeric Microspheres, Fukui, Japan, 29-31 March, 2005.
63. D. Bouzid, F. Gaboriaud, T.F. McKenna, "Atomic force microscopy as a tool to study the distribution of rubber in high impact polypropylene particles," ECOREP III, Lyon, France, June 20-24, 2005.
62. V. Tisse, T.F. McKenna, "Calorimétrie réactionnelle pour suivre la réaction de polymérisation en suspension de l'éthylène," Congres de la Société Française du Génie des Procédés, Toulouse, France, September 2005.
61. Sang-Young Shin, T.F. McKenna, L.C. Simon, J.B.P. Soares, G. Scholtz, "Gas Phase Polyolefin Nanocomposites, 55th Canadian Chemical Engineering Conference, 17-20 October, 2005.

2004

60. F. Farshchi, A.F. Santos, S. Othman, H. Hammouri, T. F. McKenna, "In Situ Monitoring of Emulsion Polymerisation using Conductimetry Measurements," 40th IUPAC International Symposium on Macromolecules, World Polymer Congress, Macro 2004, July 4-9, 2004, Paris, France
59. Fortuny, M., A.F. Santos, P. Araujo, T.F. McKenna, "MODELAGEM DA COALESCÊNCIA DE EMULSÕES POLIMÉRICAS INDUSTRIAIS," Congresso Brasileiro de Engenharia Química, XV COBEQ, Curitiba (Paraná) Brésil, 26- 29 September.
58. Boutti, S., T.F. McKenna, "High Solid Content Latexes without Intermediate Seeds," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany.
57. DiMartino, A., T.F. McKenna, J.P. Broyer, G. Weickert, D. Scwweich, C. De Bellefon, "A Quenched-flow reactor for the observation of polyolefin morphology under industrial conditions at short times (<1s)," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany

2003

56. Fortuny, M., Christian Graillat, Pedro H. H. Araújo, José C. Pinto, T.F. McKenna, "Dynamic Simulation of Particle Formation in Batch Emulsion Polymerization : A New Nucleation Profile," Polymer Reaction Engineering: Modelling, Optimisation and Control, 16èmes Entretiens Jacques Cartier, Lyon, France, 1-3 December, 2003.
55. Ouzineb, K., C. Graillat, T.F. McKenna, H.Hua, R. Jovanovic, M.Dubé, "Compartmentalisation in miniemulsions: A fundamental study and some interesting (potential) end-uses," 53rd Conference of the Canadian Society of Chemical Engineering, Hamilton, Ontario, Canada, 26-29 October, 2003.
54. Boutti, S., C. Graillat, T.F. McKenna, "High Solid Content Emulsions," 53rd Conference of the Canadian Society of Chemical Engineering, Hamilton, Ontario, Canada, 26-29 October, 2003.
53. Jovanovic, R., Dubé, M.A., McKenna, T.F., "A constrained mixture design for the modeling of pressure sensitive adhesives," 53rd Conference of the Canadian Society of Chemical Engineering, Hamilton, Ontario, Canada, 26-29 October, 2003.
52. R. Jovanovic, T.F. McKenna and M.A. Dube, "Structure-Property Relationships of BA/VAc/AA Emulsion - Based Pressure Sensitive Adhesives," IUPAC meeting, Ottawa, ON, August 2003
51. Jovanovic, R., McKenna, T.F., Dubé, M.A., Structure-Property Relationships of BA/VAc/AA Emulsion-Based Pressure Sensitive Adhesives, 39th IUPAC Congress, Ottawa, August 10-15, 2003.
50. Jovanovic, R., K. Ouzineb, T.F. McKenna, M.A. Dubé, "BA/MMA Latexes: Adhesive Properties," Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada
49. Santos, A.F., J.C. Pinto, C. Graillat, T.F. McKenna, "Real-Time Monitoring of Emulsion Polymerization Reactions Using Conductivity Measurements and Calorimetric Data," Polymer Reaction Engineering: Modelling, Optimisation and Control, 16èmes Entretiens Jacques Cartier, Lyon, France, 1-3 December, 2003.

2002

48. Kittilsen, P., T. F. McKenna, "Morphology models for polymerisation of olefins on supported catalysts," Oral Presentation at ECOREP II, 1-4 July, 2002, Lyon, France.
47. Boutti, S., T. F. McKenna, C. Graillat, "Formulation of High Solid Content Latexes with Low Viscosity," Présentation Orale au : Polymer Colloids: Preparation and Properties of Aqueous Polymer Dispersions, 14-19 July, 2002, Swabian Conference Centre, Kloster Irsee, Germany.
46. T.F. McKenna, M.Schneider, C. Graillat, "New Processes for High Solid Content Latexes with Low Viscosity," 3rd World Congress on Emulsions, Lyon, France, 24-27 September 2002.
45. T.F. McKenna, "Vers un nouveau modèle pour la croissance des particules pendant la polymérisation des oléfines," Journée des polyméristes Lyonnais, 28 October, 2002, Lyon, France.
44. Boutti, S., T. F. McKenna, C. Graillat, "A One-Step Process for the Synthesis of High Solids-Content Latexes," Présentation Orale au : Polymer Colloids: Preparation and Properties of Aqueous Polymer Dispersions, 14-19 July, 2002, Swabian Conference Centre, Kloster Irsee, Germany
43. S. Boutti, T. McKenna, C. Graillat, "Procédé de Synthèse Non-Ensemencé de Latex Multipopulés," Journées Club Emulsion, XXIème réunion du Club Emulsion, Arc et Senans, 14 et 15 October, 2002.

2001

42. McKenna, T.F., M. Schneider, A. Guyot, "High Solids Content Latex with Controlled Viscosity," oral presentation at 51st Canadian Chemical Engineering Conference, October 14-17, 2001, Halifax, Canada
41. McKenna, T.F., "Progress in Single Particle Modelling for Polyolefins," oral presentation at 51st Canadian Chemical Engineering Conference, October 14-17, 2001, Halifax, NS, Canada.
40. Othman, N., T.F. McKenna, G.Févotte, "Control of Emulsion Polymerization Processes," Oral Presentation at Advances in Process Control 6, 24-25 September, 2001, York, U.K.
39. Ouzineb, K., C. Graillat, T.F. McKenna, "Continuous Tubular Reactor as a Seed Reactor for Emulsion Polymerisation," Oral presentation at the 7th International Workshop on Polymer Reaction Engineering, Hamburg, Germany, 8-10 October, 2001.

2000

38. Colombier, D., T.F. McKenna, "La formulation de polymères en émulsion," Ecole de Printemps de Casa, Casablanca, Morocco, May 29-31, 2000-06-08.
37. McKenna, T.F., R. Spitz, P. Kittilsen, V. Mattioli, C. Martin, "Single particle transfer phenomena: a review and future directions," ECOREP Conference, Lyon, France, July 3-6 (2000)
36. McKenna, T.F., R. Spitz, "Activity Limits of Heterogeneous Catalysts," OCOP 2000, Organometallic Catalysts and Olefin Polymerization, New Millennium International Conference, Oslo, Norway, June 18-22, 2000.
35. Schneider, M., T.F. McKenna, C.Graillat, "Comparaison de différentes méthodes d'analyse de Distribution de Taille de Particules: Application à la polymérisation en émulsion," Users' seminar, Malvern Instruments Ltd., Vénissieux, France, June, 2000.

34. Kittilsen, P., T.F. McKenna, H. Svendsen, "The Interaction between Mass Transfer Effects and Morphology in Heterogeneous Olefin Polymerization," ECOREP Conference, Lyon, July 3-6 (2000).
33. Cokljat, D., T.F. McKenna, S. Vasquez, V. Ivanov, "CFD modelling for the production of olefins in FBRs: Simulation of Industrial Scale FBR Hydrodynamics using Unstructured Multiphase Solver," ECOREP Conference, Lyon, France, July 3-6 (2000).

1999

32. McKenna, T.F., S. Othman, N. Othman, G. Févotte, Ph. Guinot, H. Hammouri, "Non-linear state estimators for polymer reactors." Paper 77f, 3rd Annual Polymer Producers Conference AIChE Spring Meeting, Houston, TX, March 14-18, 1999.
31. McKenna, T.F., D. Cokljat, V. Mattioli, R. Spitz, P. Wild, "Heat and Mass Transfer During Heterogeneously Catalysed Olefin Polymerisation," Paper 72e, 3rd Annual Polymer Producers Conference AIChE Spring Meeting, Houston, TX, March 14-18, 1999.
30. Santos, A.M., N. Othman, G. Févotte, T. F. McKenna, "Experimental evaluation of free radical emulsion polymerisation using a non-linear state estimator: Evaluation in on-line conditions," Polymerisation in Dispersed Media, Lyon, France, 12-15 April, 1999.
29. McKenna, T.F., Davor Cokljat, "Use of CFD in olefin polymerisation: advantages & disadvantages in the context of CATAPOL," Working Party on Polymer Reaction Engineering, Amsterdam, June 5, 1999.
28. N. Othman, S. Othman, G. Févotte, A.M. Santos, H. Hammouri, T.F. McKenna, "Use of non-linear estimation techniques: application to polymerisation reactors and parameter estimation," ECCE2 Montpellier, France, October 1999.
27. Gantillon, B., T. McKenna, R. Spitz, "Advances in post-condensation polymerization of ethylene terephthalate," Paper 69e, 3rd Annual Polymer Producers Conference AIChE Spring Meeting, Houston, TX, March 14-18, 1999.
26. Kaboré, P., T.F. McKenna, S. Othman, H. Hammouri, "On-line fault detection and isolation for a free radical copolymerisation reaction: An observer-based approach," ECCE2 Montpellier, , October 1999.
25. Storti, G., A. Sliepcevic, M. Morbidelli, C. Martin, D. Schweich, T. McKenna, " Measurement of diffusion coefficients in polyolefins using a chromatographic technique: preliminary results," ECCE2 Montpellier, France, October 1999.
24. Fortuny Heredia, M., M. Schneider, C. Graillat, T. McKenna, "A new look at kinetics and stabilisation phenomena in emulsion polymerisation," ECCE2 Montpellier, France, October 1999.

1998

23. McKenna, T.F., D. Cokljat, R. Spitz, D. Schweich, "Modelling of Heat and Mass Transfer during the Polymerisation of Olefins on Heterogeneous Zeigler Catalysts," 2nd International Symposium on Catalysis in Multiphase Reactors, 16-18 March, 1998, Toulouse, France.
22. McKenna, T.F., P. Wild, D. Cokljat, "CFD Modelling of Heat Transfer during Gas Phase Olefin Polymerisation," ESCAPE-8, Brugge, Belgium, 24-27 May, 1998.
21. McKenna, T.F., S. Othman, G. Févotte, A.M. Santos, H. Hammouri, "Integrated approach to monitoring, state estimation and control of polymer reactors," 6th International Workshop on Polymer Reaction Engineering, Berlin, Germany, October 5-7, 1998.
20. Othman, N., A.M. Santos, G. Févotte, T.F. McKenna, "Estimation non linéaire pour le suivi de la cinétique de la polymérisation en émulsion," Club Emulsion, Nancy, France, Oct. 26-27, 1998.
19. McKenna, T.F., H. Hammouri, "Applications de la calorimétrie et des estimateurs non-linéaires à la polymérisation radicalaire," 11èmes Recontres Jacques Cartier: Le Génie de la Polymérisation en Ligne, Lyon France 7-9 Déc. 1998.
18. G. Févotte, T. McKenna, S. Othman, A.M. Santos "A combined Hardware/software sensing approach for on-line control of emulsion polymerisation processes," ESCAPE-8, Brugge, Belgium, 24-27 May, 1998.

1997

17. G. Févotte, I. Barudio, H. Hammouri, McKenna, T., S. Othman, "A New Approach to the Control of Glass Transition Temperatures of Free Radical Copolymers," ECCE Conference, Florence, Italy, May 4-7, 1997.
16. McKenna, T.F., "Polymer Reaction Engineering in Lyon: A general overview," 5th Working Party on Polymer Reaction Engineering, Lyon, France, 5-7 September, 1997
15. McKenna, T.F., A. Villanueva "Non-ideal Kinetic Behaviour of Free Radical Polymerisation," 5th Working Party on Polymer Reaction Engineering, Lyon, France, 5-7 September, 1997

1996

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132. N. Amiar, D. Bouzid, T.F.L. McKenna, "Influence of iPP morphology and EPR content on HiPP mechanical properties" International Conference on the Reaction Engineering of Polyolefins, Sept. 2-5, 2013, Ferrara, Italy
131. M.A. Bashir, T.F.L. McKenna, V. Monteil, "A New Approach for the Estimation of Partial Molar Volumes of Chemical Compounds in Macromolecular Mixtures" International Conference on the Reaction Engineering of Polyolefins, Sept. 2-5, 2013, Ferrara, Italy
130. T.F.L. McKenna, "Specialised tools for a better comprehension of olefin polymerisation reactors," International Conference on the Reaction Engineering of Polyolefins, Sept. 2-5, 2013, Ferrara, Italy.
129. A. Alizadeh, T.F.L. McKenna, "Condensed mode cooling in ethylene polymerisation: droplet evaporation," International Conference on the Reaction Engineering of Polyolefins, Sept. 2-5, 2013, Ferrara, Italy
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125. N.M.B. Smeets, R.A. Cockburn, R.A. Hutchinson, "Determination of the critical chain length of oligomers in dispersion polymerisation" DECHEMA Workshop on Polymer Reaction Engineering, Hamburg, Germany, May 21-24, 2013
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 99. Heat Transfer in Gas Phase Olefin Polymerisation: A study of Particle-Surface Interactions, E. Eriksson, T.F.L. McKenna, INCOREP, 22-27 June 2008, Montreal, Canada.
 98. Study and Control of the Distribution of Rubber in High Impact PP, D. Bouzid, T.F.L. McKenna, INCOREP, 22-27 June 2008, Montreal, Canada.
 97. E. Degrandi, C. Creton, E. Bourgeat-Lami, R. Udagama, T. McKenna, J. M. Asua, A. Lopez, "Mechanical and adhesive properties of nanostructured waterborne polymer films prepared by miniemulsion", Euradh'2008 conference on adhesion and adhesive phenomena – 3-5 September 2008, Oxford, UK
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 90. H. Vale, T.F.L. McKenna, "Population Balance Modeling of Emulsion Polymerization Reactors : Applications to Vinyl Chloride Polymerization," 9th International Workshop on Polymer Reaction Engineering, 7-9 October, 2007, Hamburg, Germany.
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87. The use of ion-selective electrodes for in-line monitoring of batch emulsion polymerization reactions, Gilson P. Santos Jr., Alexandre F. Santos, Montserrat Fortuny, Mireille Turmine, Christian Graillat, T.F. McKenna. Poster presentation at Properties, Monitoring and Control of Polymers and Polymerisation, 20ième Rencontres du Centre Jacques Cartier, 01-05/12/2007.
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83. PVC Latexes by Emulsion Polymerization: an Experimental and Modeling Study, Hugo M. Vale, T.F. McKenna. Poster presentation at Properties, Monitoring and Control of Polymers and Polymerisation, 20ième Rencontres du Centre Jacques Cartier, 01-05/12/2007.
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34. Le Sauze, N., Ouzineb, K., Ricard, A., McKenna, T., Xuereb, C., Apport des mélangeurs statiques lors d'une polymérisation en émulsion réalisée dans un réacteur en boucle," 8ème Congrès Francophone du Génie des Procédés, 17-19 October, 2001.
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33. Santos, A. F., A. Cherfi, T. McKenna, G. Fevotte, "In-Line Dielectric Monitoring of MMA/BuA Copolymerization Reactions," Polymer Reaction Engineering IV, Palm Coast, Florida, March 19-24, 2000.
32. Ouzineb, K., M. Fortuny Heredia, M. Schneider, C. Graillat, T.F. McKenna, "Emulsion polymerization with anionic and non-ionic surfactants," Polymer Reaction Engineering IV, Palm Coast, Florida, March 19-24, 2000.
31. Kittilsen, P., T. F. McKenna "Mass Transfer Effects in the Production of High Impact Resistance Polymer," Polymer Reaction Engineering IV, Palm Coast, Florida, March 19-24, 2000.
30. Gantillon, B., R. Spitz, T. McKenna, "Solid State Polycondensation of PET," Polymer Reaction Engineering IV, Palm Coast, Florida, March 19-24, 2000.
29. Schneider, M., C. Graillat, T. McKenna, I. Bétrémieux, "Preparation of High Solid Content Latex with Polymodal Particle Size Distribution (PSD), and evaluation of the PSD," Polymer Reaction Engineering IV, Palm Coast, Florida, March 19-24, 2000.
28. Mattioli, V., T.F. McKenna, "Capillary condensation during olefin polymerisation," ECOREP Conference, Lyon, France, July 3-6 (2000).
27. Martin, C., C. Novat, T.F. McKenna, "An Experimental Investigation of the Morphology of Polyolefin Particles," ECOREP Conference, Lyon, France, July 3-6 (2000).

26. Martin, C., T.F. McKenna, "Inverse Gas Chromatography for Characterisation of Polyolefins: Exploration of Solubility, Diffusion and Particle Morphology," ECOREP Conference, Lyon, France, July 3-6 (2000).
25. Ouzineb, K., C. Graillat, T.F. McKenna, "Study of the continuous emulsion polymerisation of butyl acrylate and methyl methacrylate," Working Party on Polymer Reaction Engineering, Lausanne, Suisse, 21-22 October, 2000.
24. Santos, A. F., A. Cherfi, T. McKenna, G. Seytre, J.C. Pinto, G. Févotte, "In-Line Dielectric Monitoring of MMA/BuA Copolymerization Reactions," Working Party on Polymer Reaction Engineering, Lausanne, Suisse, 21-22 October, 2000.

1999

23. Fortuny Heredia, M., M. Schneider, C. Graillat, T. McKenna "A new look at kinetics and stabilisation phenomena in emulsion polymerisation," Polymerisation in Dispersed Media, Lyon, France, 12-15 April, 1999.
22. Renard, B., T.F. McKenna, "Kinetics of Polymerisation of Partially Neutralised Acrylic Acid in INVERSE Suspensions," Polymerisation in Dispersed Media, Lyon, France, 12-15 April, 1999.
21. Santos, A.M., G. Févotte, N. Othman, S. Othman, T.F. McKenna, "The on-line monitoring of methyl methacrylate-vinyl acetate emulsion copolymerisation," Polymerisation in Dispersed Media, Lyon, France, 12-15 April, 1999.
20. M. Schneider, C. Graillat, T. McKenna, I. Bétremieux, "Preparation of High Solid Content Latex with Polymodal Particle Size Distribution (PSD)," Gordon Conference, June, 1999.

1998

19. "Etude de mélange de la polymérisation radicalaire en milieu divisé," C. Graillat, T. McKenna, Colloque Programme de Recherche CNRS: Génie des procédés chimiques, physiques et biotechnologiques. Toulouse (FR), 26-27 November 1998.
18. "Application d'observateurs d'état non linéaire au contrôle d'opération de polymérisation radicalaire," N. Othman, T. McKenna, S. Othman, A.M. Santos, H. Hammouri, G. Févotte, Colloque Programme de Recherche CNRS: Génie des procédés chimiques, physiques et biotechnologiques. Toulouse (FR), 26-27 November 1998.
17. "Un algorithme adaptatif pour l'estimation calorimétrique de conversion globale en polymérisation radicalaire," G. Févotte, T. McKenna, A.M. Santos, Colloque Programme de Recherche CNRS: Génie des procédés chimiques, physiques et biotechnologiques. Toulouse (FR), 26-27 November 1998.
16. "Suivi et Contrôle de la Copolymérisation Radicalaire," N. Othman, A.M. Santos, G. Févotte, S. Othman, T.F. McKenna, Poster présenté aux 11èmes Recontres Jacques Cartier: Le Génie de la Polymérisation en Ligne, Lyon France 7-9 Déc. 1998)
15. "Production de latex polypopulés: vers un procédé continu," T. McKenna, M. Heredia, M. Schneider," Colloque Programme de Recherche CNRS: Génie des procédés chimiques, physiques et biotechnologiques. Toulouse (FR), 26-27 November 1998.
14. "Comportement mécanique de films de copolymères styrène-acrylate de butyle. Influence de la composition," G. Vigier, P. Hajji, J.Y. Cavallé, G. Févotte, N. Othman, T. McKenna. Colloque Programme de Recherche CNRS: Génie des procédés chimiques, physiques et biotechnologiques. Toulouse (FR), 26-27 November 1998.

1997

13. McKenna, T.F., A. Guyot "A New Method for Creating Polymerisable Suspensions with Well-Defined Particle Sizes", (Engineering Foundation Conference on Polymer Reaction Engineering, Palm Coast, Florida, USA, March 16-21, 1997).
12. Févotte, G., I. Barudio, H. Hammouri, T. McKenna, S. Othman, "The On-Line Control of the Glass Transition Temperature of Free Radical Emulsion Copolymerisations", (Engineering Foundation Conference on Polymer Reaction Engineering, Palm Coast, Florida, USA, March 16-21, 1997).
11. McKenna, T.F., I. Barudio, G. Févotte, "Free radical Solution polymerisation: monitoring and modelling of solution copolymerisations in real time," (ECCE1 Conference, Florence, Italy, May 4-7, 1997).
10. McKenna, T.F., A. Guyot, "Developments in Suspension Polymerisation: A New Method for Creating Polymerisable Suspensions," (ECCE1 Conference, Florence, Italy, May 4-7, 1997).
9. "Solubility and Crystallinity of Ethylene/Polyethylene Systems," T.F. McKenna (ECCE1 Conference, Florence, Italy, May 4-7, 1997).
8. "Kinetics and Mass Transfer in Polyolefin Reactions," V. Mattioli, C. Martin, T. McKenna (Working Party on Polymer Reaction Engineering, Lyon, France, 5-7 September, 1997)
7. "Monitoring and Control of Rapidly Evolving Copolymerisation: Example of MMA - Vinyl Acetate in Emulsion," A. M. Santos, G. Févotte, T. McKenna (Working Party on Polymer Reaction Engineering, Lyon, France, 5-7 September, 1997)

6. "A method for the control of Glass Transition Temperature in Free Radical Polymerisation, I. Barudio, G. Févotte, S. Othman, H. Hammouri, T. McKenna (Working Party on Polymer Reaction Engineering, Lyon, France, 5-7 September, 1997)

1996

5. Févotte, G., I. Barudio, T.F. McKenna "Computer-Aided Parameter Estimation and On-line Monitoring of Polymerisation Reactors.," (ESCAPE-6, Rhodes, Greece, May, 1996).

1995

4. Barudio, I., G. Févotte, T.F. McKenna, "Utilisation de la calorimétrie, la densimétrie et la modélisation pour le contrôle des copolymérisations ," (V^{ième} Congrès du Groupe Français du Génie des Procédés, les 19-21 September, 1995)
3. McKenna, T.F., G. Févotte, "Problèmes Rencontrés dans l'Utilisation de Capteurs en Ligne: Cas de la Densimétrie, Calorimétrie et Gravimétrie pendant une Copolymérisation en Solution," (Réunion du G.F.P., Nancy, 21-23 Nov., 1995)
2. McKenna, T.F., B. Billy, A. Guyot "Elaboration d'un Procédé Membranaire pour la Production de Suspensions Monodisperses," (Réunion du G.F.P., Nancy, 21-23 Nov., 1995)
1. McKenna, T.F., W. Ramirez, A. Guyot "Polymérisation du Styrène: Optimisation du mélange et de la taille des particules," (Réunion du G.F.P., Nancy, 21-23 Nov., 1995)

Appendix 5. Supervision of Students

Postdoctoral Fellows

11. **R Udagama**, “High Solid Content Paint Binders,” 2014
10. **J. POHN**, “Scale-up of emulsion polymerisation processes,” 2013
9. **Raul P. MORAES**, “High solid content paper coatings,” 2011
8. **Niels M.B. SMEETS**, “Creation of dispersions using novel technologies,” 2009-2011
7. **Salima BOUTTI**, “Emulsification of acrylic monomers,” 2009
6. **Yahya BANAT**, “Oscillating polymer structures,” 2007 (Co- direction with Professor Guenter Weickert, U Twente)
5. **Audrey Di MARTINO**, “Kinetics of the nascent polymerisation of ethylene in the gas phase,” 2006
4. **Erik ERIKSSON**, “Oscillating polymer structures,” 2005-2006 (Co- direction with Professor Guenter Weickert, U Twente/PRT GmbH).
3. **Norma NEGRETE** “Clay-acrylic composite films via Miniemulsion Polymerisation,” 2005-2006 (Co-direction with Mme Elodie BOURGEAT-LAMI).
2. **Djallel BOUZID**, “Use of Atomic Force Microscopy for the Study of High Impact Polypropylene” 2004-2005.
1. **Selwa BEN AMOR** "Suivie Calorimétrique et Commande des Réacteurs de Polymérisation, 1999-2000.

PhD Students

Current

37. **Montree NAMKAJORN**, “Olefin polymerisation during condensed mode operation,” Madihol University, Bangkok, Thailand, 2014 (co-supervision with Prof. E. Somsook)
36. **Leila SANTOS**, “On-line monitoring of miniemulsions,” Universidade Tridante, Aracaju, Brésil, Soutenance Prévüe 2017 (co-direction, A. Santos, Brésil)
35. **Barbara REZENDE LARA**, “Adhesive films,” UCB-Lyon 1, Lyon, France, Soutenance Prévüe 2017
34. **Aaron CANCELAS**, “High Impact Polypropene: Structure Evolution and impact on Reaction,” UCB-Lyon 1, Lyon, France, Soutenance prévü 2018
33. **Ana Carolina MENDEZ**, “Scale up of vinylidene fluoride emulsion polymerisation,” UCB-Lyon 1, Lyon, France, Soutenance prévü 2017
32. **Muhammad Ahsan BASHIR**, “Study of the impact of the geometric parameters of catalyst support on olefin polymerisation,” *UCB-Lyon 1, Lyon, France*, Soutenance Prévüe 2016
31. **Solmaz ARYAFAR**, “Scale-up/Scale-down of latex production processes,” *UCB-Lyon 1, Lyon, France*, Soutenance Prévüe 2015
30. **Arash ALIZADEH**, “Advanced morphological models for olefin polymerisation,” *Queen’s University, Kingston, Canada*, Soutenance Prévüe 2013

Defended

29. **Barbara BROWNING**, “Modelling and Experimental Study of a Fixed Bed Stopped Flow Reactor for Polyolefins,” *UCB-Lyon 1, Lyon, France*, 2013
28. **Elena RANIERI**, “Kinetics of metallocene polymerisation,” (Co-direction with Dr. Christophe Boisson) Soutenu 2012
27. **J. POHN**, “Modelling and experimental study of latex Stability,” (Co-direction with Professor Michael Cunningham) *Queen’s University, Kingston, Canada*, Soutenu 2012
26. **Estevan TIONI**, “The study of the role of the support, support preparation ad initial conditions on olefin polymerisation,” (Co-direction with Dr. Vincent Monteil), *UCB-Lyon 1, Lyon, France*, Soutenu 2011
25. **Raul MORAES**, “High solid content latex for paper coatings.” *Queen’s University, Kingston, Canada*, Soutenu 2011
24. **Gabriela FONSECA**, “Miniemulsion polymerisation for adhesives,” (Cosupervised with Prof. Marc. A. Dube, University of Ottawa) Soutenu 2010
23. **Ravindra UDAGAMA** “Acrylic-Alkyd Hybrids via Miniemulsion Polymerisation,” *UCB-Lyon 1, Lyon, France*, Soutenu 2010.
22. **Ula EL-JABY** “Advanced applications of miniemulsions,” (Co-direction with Professor Michael Cunningham), *Queen’s University, Kingston, Canada*, Soutenu 2010
21. **Véronique MELLON** “Clay-acrylic composite films via Miniemulsion Polymerisation,” (Co- direction with Mme Elodie BOURGEAT-LAMI), *UCB-Lyon 1, Lyon, France*, Soutenu 2009
20. **Ali FARZI** “Nanocomposite films from miniemulsions,” (Co- direction with Mme Elodie BOURGEAT-LAMI), *UCB-Lyon 1, Lyon, France*, Soutenu 2008
19. **Hugo VALE**, "Modelling of the evolution of the PSD during emulsion polymerisation," *UCB-Lyon 1, Lyon, France*, Soutenu 2007
18. **Virginie TISSE**, "Ethylene polymerisation on silica-supported catalysts," *UCB-Lyon 1, Lyon, France*, Soutenu 2006.

17. **Fabricio MACHADO** "Polymerisation of propylene and butene on supported catalysts," (Co-direction with José Carlos PINTO) *COPPE/UFRJ Rio de Janeiro, Brazil*, Soutenu 2006
16. **Audrey DIMARTINO**, "Modelling of particle fragmentation, growth and morphology for polyolefins," *UCB-Lyon 1, Lyon, France*, Soutenu 2006
15. **Malihae PISHVAIE**; "Latex Rheology", (Co-direction with Philippe CASSAGNAU LMPBM), *UCB-Lyon 1, Lyon, France*, Soutenu 2005
14. **Audrey COSYNS**, "Dispersions de polymères à granulométrie multimodale : application aux revêtements aqueux," *UCB-Lyon 1, Lyon, France*, Soutenu 2005
13. **Erik ERIKSSON**, "Validation of transport models for the gas and slurry phase polymerisation of olefins," *UCB-Lyon 1, Lyon, France*, Soutenu 2005.
12. **Farschad FARSCHID**, "Commande de réacteurs de polymérisation en émulsion," (Co- direction with Professor Hassan HAMMOURI) *UCB-Lyon 1, Lyon, France*, Soutenu 2004
11. **Djallal BOUZID**, "Morphologie des particules de copolymères d'éthylène et de propylène," *UCB-Lyon 1, Lyon, France*, Soutenu 2004
10. **Thomas LYS**, "Mechanism of particle formation and growth in bimodal PVC latexes," *UCB-Lyon 1, Lyon, France*, Soutenu 2004
9. **Fabio BENTES FREIRE** "Advanced State Estimation for Emulsion Polymerisation," (thèse en co-tutelle avec le professeur Reinaldo GIUDICI) *Universidade de Sao Paolo, Sao Paolo, Brasil*, Soutenu 2003
8. **Salima BOUTTI**, "Synthesis of High Solid Content Latexes," *UCB-Lyon 1, Lyon, France*, Soutenu 2003
7. **Alexandre SANTOS**, "Emulsion polymerisation: sensors and control," (Co-direction with Professor José Carlos PINTO), *Universidad federal de Rio de Janeiro*, Soutenu 2003
6. **Keltoum OUZINEB**, "Emulsion and Miniemulsion Polymerization : Stabilization, tubular reactors and practical applications," *UCB-Lyon 1, Lyon, France*, Soutenu 2003
5. **Montserrat FORTUNY**, "Modélisation de la polymérisation en émulsion de latex multipopulés," *UCB-Lyon 1, Lyon, France*, Soutenu 2002.
4. **Martine SCHNEIDER**, "Étude de Procédés de Synthèse de Latex Multipopulés à Haut Extrait Sec," *UCB-Lyon 1, Lyon, France*, Soutenu 2000
3. **Nida OTHMAN**, "Advanced Strategies for Composition Control in Semi-continuous Emulsion Polymerization," *UCB-Lyon 1, Lyon, France*, Soutenu 2000
2. **Christine MARTIN**, "Transport phenomena during polymerisation on heterogeneous catalysts." *UCB-Lyon 1, Lyon, France*, Soutenu 2000
1. **Virginie MATTIOLI**, "Aspects génie chimiques de la polymérisation polyphasiques" *UCB-Lyon 1, Lyon, France*, Soutenu 2000

Master of Science (or equivalent)

25. **Margarida MARQUES**, "Coagulation of emulsion polymerisations," *IST Lisbon*
24. **Ana Cristina OLIVEIRA**, "Kinetic model of metallocene polymerisation," *IST Lisbon*
23. **Pedro RAIHNO**, "Ternary PC-SAFT Model of Olefin Solubility in Polyolefins," *IST Lisbon*
22. **Cyntich NGODI**, "Microcalorimetry for the evaluation of the heat of sorption of inert condensing agents in polyethylene," *Université de Nantes, MI Génie des Procédés*, 2013
21. **Jiranan WONGCHANOI**, "Encapsulation of phase change materials," *UCB Lyon 1, Génie des Procédés*, 2012
20. **Abdulrahman ASHRI**, "Influence of Silica Properties on the Behaviour of Catalysts for Olefin Polymerisation," *Queen's University, Kingston, Canada, Chemical Engineering*, 2012
19. **Robert COCKBURN**, "Polymerisation of Biosource monomers." (co-direction with Prof. Robin Hutchinson) *Queen's University, Kingston, Canada, Chemical Engineering*, 2011.
18. **Arash ALIZADEH**, "Modelling ZN polymerisation," *IFP School, ENSMP, Rueil-Malmaison, France*, 2009
17. **Sondes BOURIGA**, *UCB Lyon 1, Génie des Procédés*, 2007
16. **Zha LI**, "Production de Miniémulsions," *UCB Lyon 1, Génie des Procédés*, 2007
15. **Thomas GEREZ**, "Role of the support morphology of silica based metallocenes," *ESCPE-Lyon, Génie des Procédés*, 2006.
14. **Ravindra UDAGAMA** "Emulsion Polymerisation of Butyl Acrylate – process intensification," *Polymer Science and Technology, University of Sri Jayawardanapura, Sri Lanka*, 2005
13. **Rémi BRIQUEL** "Le rôle du support dans la polymérisation d'éthylène avec des catalyseurs metallocenes," *ESCPE-Lyon, Génie des Procédés*, 2005
12. **Sebastien FERRERO** "L'application de la calorimétrie à la suivi de réacteurs de polymérisation" *ESCPE-Lyon, Génie des Procédés*, 2004
11. **Cristina ABRIL SANCHEZ** "Etude de la polymérisation de l'éthylène sur des catalyseurs à base de chrome," 2001
10. **Floran PRADES** "Etude d'une cascade de réacteurs agités pour la polymérisation en emulsion," *UCB-Lyon 1, DEA Matériaux Macromoléculaires*, 2000

9. **Djallel BOUZID** "Morphologie des particules de polyoléfines" *UCB-Lyon 1, DEA Matériaux Macromoléculaires*, 2000
8. **Kamel MAHFOUDI** "Phénomènes de transport de matière pendant la polymérisation des oléfines" *UCB Lyon 1, DEA Génie des Procédés*, 2000
7. **Sandrine MOREAU** "Production of multipopulated latices in stirred tank reactors" *ESCPE-Lyon, Génie des Procédés*, 1999
6. **Béatrice RENARD** "Methods for polymerisation of acrylic acid in inverse suspension" *UCB-Lyon 1, DEA Matériaux Macromoléculaires*, 1998.
5. **Jérôme TORRES** "Emulsion copolymerisation in continuous stirred tank reactors" *UCB-Lyon 1, DEA Matériaux Macromoléculaires*, 1997
4. **Alvaro VILLANEUVA** "Cinétique de la polymérisation radicalaire en solution" *ENSPM Rueil-Malmaison*, 1997
3. **Nora GHERIB** "Elaboration of a reaction calorimeter for free radical polymerisation." *UCB Lyon 1, DEA Génie des Procédés*, 1996
2. **Boris BILLY** "A metallic membrane process for the suspension polymerisation of styrene." *UCB-Lyon 1, DEA Matériaux Macromoléculaires*, 1996
1. **Barbara GANTILLON** "Process for the production of PET in divided media." *UCB-Lyon 1, DEA Matériaux Macromoléculaires*, 1996

Undergraduate Projects

33. **José Carlos JIMENEZ**, "Miniemulsion polymers for hybrid latexes," ESCPE-Lyon 2013
32. **Wenhui HUA**, "L'évolution de la morphologie des poudres de polyéthylène (PE) produites sur des catalyseurs supportés", ESCPE-Lyon, 2012
31. **Barbara REZENDE LARA**, "Elaboration of a latex aimed to promote the adhesion between PET substratum and Aluminium vacuum deposited, for the production of metalized films pasteurizable, sterilizable and with gas barrier dedicated to the flexible packaging of foodstuffs," Engineering School of Lorena, University of São Paulo, EEL/USP, 2012
30. **Ester SANCHEZ**, "Conductivity probes for the monitoring of emulsion polymerisation," Escuela Técnica Superior de Ingeniería Industrial de Barcelona, 2012
29. **Mireia Soy FLORIDIA**, "Encapsulation of phase change materials," Escuela Técnica Superior de Ingeniería Industrial de Barcelona, 2012
28. **Rachel LAM**, "Microemulsions using CCT" Queen's University, Canada, 2011 *ChEE 421*,
27. **Michael FREEMAN**, "Hyperbranched water-soluble polymers," *Queen's University, Canada*, 2011
26. **Scott CAMPBELL**, "Catastrophic Phase Inversion for Miniemulsification," *Queen's University, Canada*, 2010
25. **Natalie MACKENZIE**, "Grafting of styrene and PHA resins," (co-direction with Juliana Ramsay), *Queen's University, Canada*, 2010
24. **Andrew W.T. WONG**, "Coagulation of polymeric latex," (co-direction with Robin Hutchinson), *Queen's University, Canada*, 2010
23. **Kevin PAYNE**, "Use of biorenewable monomers for adhesives product," (co-direction with Robin Hutchinson), *Queen's University, Canada*, 2010
22. **Jessica ALBANESE**, "Products and processes of miniemulsions". Queen's University, Canada, 2010
21. **Todd LARSON**, "Rotor Stator Mixers for Miniemulsions," *Queen's University, Canada*, 2009
20. **Nathan HORDY**, "Structured latexes in tubular reactors," *Queen's University, Canada*, 2009
19. **Michael GRETTON**, "Synthesis of Triblock Copolymers by Polymerization of Acrylates and Methacrylates in Miniemulsion," (co-direction with Michael Cunningham) *Queen's University, Canada*, 2009
18. **Robert COCKBURN**, "Polymerisation of Biosource monomers." *Queen's University, Canada*, 2009
17. **Philippe LAUVERNIER**, "Microemulsions," *Queen's University, Canada et ESCPE-Lyon*, 2009.
16. **Sarah HAW**, "HASE thickeners via miniemulsions," *Queen's University, Canada*, 2009
15. **Beatriz OLALLA**, "Polyolefin morphologies using stopped flow reactors," *ESCPE-Lyon*, 2007.
14. **Flavia OLIVEIRA**, "Formulation of high temperature adhesives," *ESCPE-LYON et U. Lorena, SP Brazil*, 2007.
13. **Jaime CAETANO**, "Hollow core-shell emulsions," *ESCPE-LYON et U. Lorena, SP Brazil*, 2006
12. **Rafael JARDIM PINTO da MACHADO**, "Partitioning of acid comonomers during emulsion polymerisation," *ESCPE-LYON et U. Lorena, SP Brazil*, 2005
11. **Raul MORAES**, "Rheological Modifiers and Thickeners," *ESCPE-LYON et U. Lorena, SP Brazil*, 2005
10. **Rocio DIEZ**, "Bimodal latexes for low viscosity applications," *Escuela Técnica Superior de Ingenieros Industriales*, 2005
9. **Christophe LeBARON**, "Bimodal latexes for PVDC products," *ESCPE-LYON*, 2003
8. **Sohinee MAZUMDAR**, "Miniemulsification using Rotor Stator Mixers – influence of process conditions," *ESCPE-LYON et University of Calgary, Canada*, 2003

7. **Catharine LORD**, "Miniemulsification using rotor stator mixers," *ESCPE-LYON et Ecole Polytechnique de Montréal, Canada*, 2002
6. **Isadora IGLESIAS** "Application des estimateurs d'état à un réacteur pilote adiabatique," *l'Université Polytechnique de Madrid*, 2001
5. **Cesar ALVAREZ**, "The use of calorimetry to monitor the production of core-shell latexes" *ESCPE-Lyon*, 2001
4. **Susanne LOW**, "Monitoring of emulsion polymerisation using conductivity," *Erasmus Mondus University of Newcastle, UK*, 2001
3. **Yon ALVAREZ** "Nucléation des particules dans des latex acryliques", *Universidad del Pais Vasco, San Sebastien, Espagne*, 2001
2. **Sanna SEVERINS**, "Production de polymères de type cœur-écorce dans un réacteur tubulaire," *l'Eindhoven University of Technology, Pay-Bas*, 2001.
1. **Montserrat FORTUNY HEREDIA** "Solution polymerisation of acrylates: influence of solvents on the rate constants," *Escuela Técnica Superior de Ingeniería Industrial de Barcelona*, 1998