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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

2011-Present *Adjunct Professor Chemical Engineering Queen's University, Kingston, ON, Canada*

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

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): 245

Patents: 6

Book Chapters: 12

Books (authored): 1

Key Note Lectures : 31

Seminars and invited conferences: 78

Oral Presentations (Submitted abstracts): 111

Poster Presentations: 183

MSc (or eq.): 32

PhD (co-) supervised: 40 finished + 11 current

PDF supervised: 19

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:

- | | |
|------------------|---|
| 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.

Awards

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

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 : "MATÉRIAUX, ENERGIE, PROCÉDES, PRODUITS"
 - ⇒ 2006: Evaluation of *Contrat Plan d'Etudes Régional*
- **COMMISSION EUROPÉENNE**
 - ⇒ 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**
 - ⇒ 2015: Canada Research Chair program
 - ⇒ 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**
EUROPEAN CONFERENCE on CHEMICAL ENGINEERING
Topic Manager – Polymer Reaction Engineering
⇒ Nice: 2015

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 E COREP/INCOREP conference series:

⇒ Lyon (ECOREP I, II, III): 2000, 2003, 2005

⇒ Montréal, Canada (INCOREP I): 2008

⇒ Ferrara, Italy (INCOREP II): 2013

⇒ Geleen, Netherlands: 2017

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

⇒ 2017: Fibres et revêtements avancés : du bécher au procédé, Montréal, QC, Canada. Co-Chair and Organiser

⇒ 2016: Changing TRL, Changing Scale in the Polymer Industry, Lyon, France; Co-Chair and Organiser

⇒ 2012: EMULSIFICATION, Modeling, Technologies and Applications. Member of the scientific committee (Lyon, France)

⇒ 2007: Properties, Monitoring and Control of Polymerisation Reactors. Co-Chairman with Dr. Nida Sh'eibat Othman (Lyon, France)

⇒ 2003: Modelling, Optimisation & Control of Polymer Reactors. Co-Chairman with Dr. Nida Sh'eibat Othman. (Lyon, France)

⇒ 1998: Polymer Reaction Engineering On-line. (Lyon, France)

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

⇒ 2015, European Conference on Chemical Engineering (Scientific Committee), Nice, France

⇒ Congrès Francophone du Génie des Procédés (Scientific Committee): 2014, Agadir, Morocco; 2016, Safi, Morocco.

⇒ 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

Expert Witness

-
- Finnegan, Henderson, Farabow, Garrett & Dunne (Washington D.C.), Patent Validity, 2013-14
 - Hogan Lovells International LLP (Amsterdam), Trade secrets litigation, 2016

Consulting

- ATOCHEM/ARKEMA (FR);
- Total Petrochemicals (BE, USA);
- ExxonMobil Chemicals (USA);
- D.S.M. (NL);
- Sabic (NL, KSA);
- Sharq (KSA);
- Borealis (NO);
- Sherwin Williams (USA).
- INEOS/BP CHEMICALS (FR/UK)
- ECOPETROL (CO)
- MITSUBISHI CHEMICALS (JP)
- BASF (DE)
- BASF (USA) - Catalysis
- TARGOR (DE)
- DuPONT Canada (CA)
- Integrated Lab Solutions (DE)

Editorial Work

- **Associate Editor, 2009 – 2015**
Canadian Journal of Chemical Engineering
- **International Advisory Board,**
Canadian Journal of Chemical Engineering, 2016 – present
Polyolefin Journal, 2012 – present
Chemical Ing. Tech., (Wiley-VCH Verlag GmbH) 2011- 2016
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

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

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)

26. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) October 28-30, 2019, Houston, TX, USA
25. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Dr C. Boisson, C2P2; Dr P. Des Lauriers, CPChem, USA) Nov. 19-22, 2018, Lyon, France
24. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Waterloo, Canada), Oct. 2-4, 2017, SABIC, Geleen, NL
23. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) September 20-22, 2017, Houston, TX, USA
22. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) September 19, 2017, La Porte, TX, USA
21. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) April 14-15, 2016, La Porte, TX, USA
20. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) April 11-13, 2016, Houston, TX, USA
19. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) May 18-21, 2015, Lyon, France
18. Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada) Nov 18-21, 2013, Houston, Texas, U.S.A.
17. *Polyolefin Reaction Engineering (with Prof. JBP Soares U. Alberta, Canada), Nov 11-13, 2013, SABIC/Lanxess/DSM, Geleen, NL
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-Jubyail 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

1. ANR – Agence Nationale de Recherche (France)

2018-2022 – CleanPoly: Elimination of fouling and coagulum in polymerisation reactors

- Role: Project Leader (with LAGEP – UCB, Arkema, Kemone)

2016-2019 – ThermPoly: Experimental and modeling study of ethylene polymerization in gas phase reactors: impact of thermodynamics

- Role: Project Partner (with ETH Zurich, LAGEP – UCB)

2016-2019 – Photo-B: Développement de nouveaux systèmes photoamorceurs borés pour une photopolymérisation durable

- Role: Project partner

2016-2019 – LISIP : Laboratory for Innovation, Scale-Up and intensification of Polymerisation. Projet LabCom with Activation, S.A.

- Role: Project partner

2013-2017 – SCALE-UP: Innovative approaches to process scale-up and scale-down for latex production

- Role: Project leader

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

- Role: Project partner

2. Dutch Polymer Institute

2018-2022 – *Disentangled*: Control of crystallisation, chain entanglement and rheology via process conditions

- Role: Project leader

2016-2018 – *G4P*: Gas Phase Propylene (Pre)Polymerisation: Impact of catalyst activation, prepolymerisation and support morphology on polypropylene production

- Role: Project leader

2013-2017 – *HIPSTER*: High Impact Polypropene: Structure Evolution and impact on Reaction

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

2012-2016 – *GEOCAT*: Investigation of the impact of the geometry of catalyst supports on olefin polymerisation

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

2009-2013 – *IMPOR*: Improved Models for Polyolefin Reactors

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

2008-2012 – *SITE COUNT*: Measuring active site concentration of olefin polymerization catalysts

- 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

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

3. Canada

2010-2012 – MITACS Accelerate : Innovative coagulator design for the production of advanced composite materials

- Role: Principle Investigator

2009-2011 – Ministère de la recherche et Innovation de l'Ontario fonds post doctoraux

2009 – Conseil de recherches en sciences naturelles et en génie du Canada, Infrastructure et Outis de recherche

- Role: Principle Investigator

2007-2011 – Canada Research Chair - Tier 1

- Role: Chair Holder

2007-2011 – NSERC Discovery grant

- Role: Principle Investigator

2007 – Canadian Foundation for Innovation: Infrastructure grant

- Role: Principle Investigator

2007 – Queen's University : Start-up grant

- Role: Principle Investigator

2007 – Ministry of Research and Innovation of Ontario: Ontario Research Fund

- Role: Principle Investigator

4. **European Commission**

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

- Role: Project partner and investigator

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

- Role: Project coordinator and coinvestigator

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

- 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"

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

2001-2002 – University of Ottawa: "High Quality Latex Dispersions

- 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

2019 SABIC (Geleen, NL)

2019 SCG (Bangkok, TH)

2019 Arkema (Serquigny, FR; Colobmes FR)

2018 ExxonMobil Chemicals (Baytown, TX, USA)

2017 European Organic Coatings (Brussels, BE)

2017, 2018 Asahi Glass Company (Tokyo, Japan)

2016 INEOS (Lavera, France)

2016 Arkema (Serquigny, France)

2016 SNF Floerger (Andrézieu, France)

2016 Manufacture Française des Pneumatiques MICHELIN (Clermont Ferrand, France)

2016 Braskem (Trionfo, RS, Brazil)

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, CA) : Emulsification 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 Preparation

- F.N. Andrade, N. Ishola, T.F.L. McKenna, “Condensed Mode Cooling for Ethylene Polymerization: Part VI. Impact of Induced Condensing Agents on Comonomer Incorporation”

Submitted

- D. Cheng, N. Sheibat-Othman, T.F.L. McKenna, “Modelling Study of Emulsion Latex Coagulation Processes in Coagulators” (Submitted, Can. J. Chem. Eng.)
- A.C. Mendez-Ecoscia, N. Sheibat-Othman, T.F.L. McKenna, “Emulsion polymerisation of Vinylidene Fluoride: Effects of Reaction Conditions on the Polymerisation Rate,” (Submitted Macromol Chem Phys).
- I. Monteiro, T.F.L. McKenna, “Challenges in the emulsion copolymerization of vinylidene fluoride,” (Submitted Polymer Chemistry)

2020

246. Y. Yu, T.F.L. McKenna, “An Experimental Investigation of the Impact of Gas Phase Prepolymerization of Propylene,” (To Appear, Macromol. React. Engng.)

2019

245. R. Ferreira Alves, T.F.L. McKenna, “Estimation of Diffusion Coefficients for Multiple Penetrant/Polyolefin Systems Based on Sorption Data” (In press, Chem Eng J.) DOI: 10.1016/j.ccej.2019.123114
244. M.A. Bashir, V. Kannelopoulos, M. Al-Haj Ali, T.F.L. McKenna “Applied Thermodynamics for Process modelling in Catalytic Gas Phase Olefin Polymerization,” Macromol. React. Engng. DOI: 10.1002/mren.201900029
243. I. Stefanichen Monteiro, A.C. Mendez Ecoscia, T.F.L. McKenna, “Investigation of chain transfer agent effect in the polymerization of vinylidene fluoride,” Ind. Eng. Chem. Res., **2019**, 58, 20976-20986, DOI: 10.1021/acs.iecr.9b02755
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9. McKenna, T.F., "Computer Aided Process Design: Short-cut design for polymer production.," *Comp. Chem. Eng.*, 20(SA) 237-243, 1996.
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Appendix 4. Conférences, Séminaires et Participation au Congrès

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

2019

33. Club Emulsion, Sept.30-Oct. 01, Colombes, France, “Particle stability and coagulation - A solved problem?” T.F.L. McKenna, N. Sheibat-Othman, D. Cheng
32. DECHEMA Workshop on Polymer Reaction Engineering, Hamburg, Germany, 11-14 June, 2019, “Condensing agents in ethylene polymerisation: It’s not just the heat!”, Timothy F.L. McKenna
31. SPE Polyolefins, *Houston, TX, U.S.A. 24-27 February, 2019*, “Improved understanding of the impact of alkanes when using condensed mode cooling for PE production, Timothy F.L. McKenna*, Arash Alizadeh, Rita Alves, Fabiana N. Andrade

2018

30. Polymer Reaction Engineering X, 19-23 May 2018, Punta Cana, DR, “Impact of induced condensing agents on reactor performance for ethylene polymerisation in the gas phase.”

2017

29. Entretien du Centre Jacques Cartier: Fibres et Revêtements, B. Rezende-Lara, T.F.L. McKenna, K. Ouzineb, Improvement of barrier property by reformulation of acrylic latexes,” 15-17 October, 2017, Montréal, PQ, Canada
28. Canadian Conference on Chemical Engineering, 22-25 October, 2017, “Towards a better understanding of condensed mode cooling.”
27. Advances in Polyolefins, Santa Rosa California, 24-27 Sept 2017, “Towards a better understanding of condensed mode cooling.”
26. Hangzhou International Polymers Forum, Hangzhou, China, 22-25 May, 2017, “Condensed mode cooling for ethylene polymerisation reactors.

2016

25. Lyon-Polymer Science and Engineering Workshop, Lyon, France, 7-8 April, 2016, “An integrated approach to the scale up of emulsion polymerisation”

2015

24. World Polyolefin Congress 2015, Tokyo, Japan, 23-27 November 2015, “Impact of condensable compounds on the gas phase polymerisation of ethylene”
23. Advances in Polyolefins, Santa Rosa California, 20-24 Sept 2015, “Impact of Induced Condensing Agents in the Gas Phase Polymerisation of Ethylene”
26. Polymer Reaction Engineering IX, Cancun, MX, 10-15 May, 2015, “Impact of Induced Condensing Agents in the Gas Phase Polymerisation of Ethylene”

2014

25. Canadian Conference on Chemical Engineering 2014, Niagara Falls, ON, Canada, 2014, 20-23 October, “Polymer Reaction Engineering: Still alive and kicking”.
24. Frontiers of Polymer Colloids: From Synthesis to Macro-Scale and Nano-Scale Applications, Prague 2014, 21-24 July, 2014, Prague, Czech Republic, “A combined CFD-PBM approach to the scale-up of emulsion polymerisation processes”

2013

23. Advances in Polyolefins, Santa Rosa California, 13-16 Octobre, “Effect of the inert condensing agent (ICA) during gas phase ethylene polymerisation”

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 CSChE Conference, London, Ontario, Canada, Keynote Address, "The study of olefin polymerisation at short times: Studies using specially adapted reactors."
17. 61st CSChE 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 Diomedical 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)

2019

33. ExxonMobil Chemicals, Understanding the impact of condensing agents on gas phase PE processes, Baytown, TX, USA, 25 October, 2019

2017

32. Integrated Lab Solutions, Berlin DE, Reactor Design: Improved tools for laboratory investigation of gas and slurry phase polymerisation of olefins, 6 February, 2017

2016

31. ExxonMobil Chemicals, Baytown, TX, "Impact of Induced condensing agents on the behaviour of gas phase ethylene polymerization," 24 October 2016
30. Total Petrochemicals Ltd., Deerpark TX, "Reaction engineering of olefin polymerisation," 20 April

2015

29. Michelin, Clermont-Ferrand, France, 2 April, 2015, "Polymers: products by process. The interaction of chemistry and reaction engineering in determining polymer properties".

2014

28. INEOS France, Lavéra, November 5, “The impact of ICA on ethylene polymerization.”

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 olefins.”
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)

2015

25. Institut de Chimie de Clermont-Ferrand, Clermont-Ferrand, France, 2 April, 2015, "Polymers: products by process. The interaction of chemistry and reaction engineering in determining polymer properties".

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."

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114. A. Nagy, T. Turek, G. Wehinger, T.F.L. McKenna, Y. Blazzio, "Novel Transient Reactors for Gas Phase Reaction Kinetics Testing Under Industrially-Relevant Conditions," 17th International Congress On Catalysis, June 14-19, 2020

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113. Juliete SILVA, Angelo Henrique de Lira Machado, Muriel Lansalot, Franck D'Agosto, Fabricio Machado Silva e Timothy McKenna, "Synthesis of Monomodal Latex with high solid content through semi-batch emulsion polymerization," Congresso Brasileiro de Polimeros, Bento Gonçalves (RS), Brésil, 27-31 October 2019.
112. Yue YU, Timothy F.L. McKenna, "Gas Phase Propylene (Pre)Polymerization: A mechanistic elucidation of the effects of mineral oil," Blue Sky Conference on Olefin Poymerization, Sorrento, Italy, June 24-28, 2019
111. Timothy F.L. McKenna, "Condensed Mode Cooling: The Impact of Induced Condensing Agents on Gas Phase Polymerisation of Ethylene," Blue Sky Conference on Olefin Poymerization, Sorrento, Italy, June 24-28, 2019
110. Amel Ben M'RAD, Timothy F.L. McKenna, "Experimental and modeling study of ethylene polymerization in gas phase reactors : Impact of thermodynamics," DECHEMA Workshop on Polymer Reaction Engineering, Hamburg, Germany, 11-14 June, 2019

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109. T.F.L. McKENNA, "Evaluation of catalyst performance in gas phase polymerization of ethylene on metallocene catalysts," Can. Conf. Chem. Eng., 28-31 Oct., 2018, Toronto, ON, Canada
108. B. Rezende-Lara, M.A. Bashir, T.F.L. McKENNA, "Evaluation of catalyst performance in gas phase polymerization of ethylene on metallocene catalysts," Can. Conf. Chem. Eng., 28-31 Oct., 2018, Toronto, ON, Canada
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105. M.A. Ahsan Bashir, V. Monteil, Ch. Boisson, T.F.L. McKenna, International Conference on the Reaction Engineering of Polyolefins, Geleen, The Netherlands, 6-9 June, 2017

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104. T.F.L. McKenna, N. Sheibat-Othman, Scale-up/Scale-Down of Emulsion Polymerisations, Entretiens du Centre Jacques Cartier, Lyon, FR, 21 Novembre 2016
103. S. Aryafar, N. Sheibat-Othman, T.F.L. McKenna, Coupling of Computational Fluid Dynamics and Population Balance Modelling for Emulsion Polymerization Process, Can. Conf. Chem. Eng., Laval, PQ, Canada, 16-20 October 2016.
102. T.F.L. McKenna, Challenges for ICA use in olefin polymerisation, Blue Sky Conference, Sorrento IT, 27-30 June, 2016.
101. T.F.L. McKenna, Impact of Induced Condensing Agents in the Gas Phase Polymerisation of Ethylene, Workshop on Polymer Reaction Engineering, Hamburg DE, 17-20 May, 2016

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100. M.A. Bashir, C. Boisson, V. Monteil, T.F.L. McKenna "The effect of silica dehydroxylation temperature on catalytic performance of supported (n-BuCp)₂ZrCl₂ in ethylene polymerisation" European Conference on Chemical Engineering – ECCE 10, 27-31 Sept., 2015, Nice, France.
99. M.A. Bashir, V. Monteil, M. Al-Haj Ali, V. Kannelopoulos, T.F.L. McKenna, "Cosolvent effects in Multicomponent Penetrants/polymer Systems assessed by estimating partial molar volumes of penetrants in polymers," European Conference on Chemical Engineering – ECCE 10, 27-31 Sept., 2015, Nice, France.
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97. M. Namkajorn, A. Alizadeh, T.F.L. McKenna, "Condensed mode cooling of ethylene polymerisation: the influence of inert condensing agent on polymerisation," Canadian Conference on Chemical Engineering 2014, Niagara Falls, ON, Canada, 2014, 20-23 October.
96. J. Pohn, T.F.L. McKenna, "Extrapolation des procédés de production de latex polymère: réacteurs et coagulateurs," Congrès Francophone du Génie des Procédés, 28-30 May, 2014, Agadir Morocco
95. A. Alizadeh, T.F.L. McKenna, "Une étude du rôle du condensate "intermédiaire" dans des réacteurs à lit fluidisés pour la production de polyoléfines" Congrès Francophone du Génie des Procédés, 28-30 May, 2014, Agadir Morocco
94. T. McKenna, V. Monteil, C. Boisson, S. Norsic, C. Ngodi, Lab scale gas phase reactors for the study of olefin polymerisation, Nextlab 2014, IFPEN Rueil-Malmaison, 2-4 April, 2014
- 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. Kanelopoulos, 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
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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
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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, Nuremberg, 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

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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.

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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.

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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

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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.

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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

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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.

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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.
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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.

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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.

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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).

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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.
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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.
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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.
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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

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14. McKenna, T.F., B. Billy, "Control of Droplet Size in Suspension Polymerisation: A Novel method for Eliminating the Influence of Mixing Conditions," 4th Meeting of European Federation of Chemical Engineering Working Party on Polymer Reaction Engineering, Thessaloniki, Greece, Sept. 21-22, 1996.
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10. McKenna, T.F., "Modèle simplifié d'un évaporateur à film raclé: Equipement pour l'élimination des résidus volatils d'un polymère fondu," Vième Congrès du Groupe Français du Génie des Procédés, 19-21 September, 1995.
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8. McKenna, T.F., "Aspects du transfert d'énergie pendant la polymérisation des oléfines," Vième Congrès du Groupe Français du Génie des Procédés, 19-21 September, 1995.
7. McKenna, T.F., F. Barbotin, R. Spitz, "Transfert de Matière en Catalyse Ziegler: Exploration des limitations diffusionnelles de la polymérisation d'éthylène en suspension," Réunion du G.F.P., Nancy, 21-23 Nov., 1995.

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5. R. Spitz, J. DuPuy, J.P. Broyer, T. McKenna, "Diffusion effects in Olefin Polymerisation: Reconciliation of theory and experiment." International Symposium on Synthetic, Structural and Industrial Aspects of Stereospecific Polymerisation Milano, Italy, June 6-10, 1994.
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2. McKenna, T.F., M.F. Malone, "Process design for polymer production," Foundations of Computer-Aided Process Design, Snowmass CO, July, 1989.
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Poster Presentations

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183. T.F.L. McKenna, N. Blazzio, N. Sheibat-Othman, N. Norsic, "A novel stopped for reactor for gas phase polymerization," Advances in Polyolefins 2019, Sept 22-25, 2019, Rohnert Park CA, USA
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66. V.F. Tisse, R.M. Briquel, T.F. McKenna, Investigation of reaction rate properties of polyethylene produced by homopolymerisation and copolymerisation of ethylene and 1-hexene in slurry phase with EtInd₂ZrCl₂ on supports with different physical properties, ECOREP III, Lyon, France, June 20-24, 2005
65. G. Farzi, T.F.L. McKenna, E. Bourgeat-Lami, C. Graillat, "Comparative study of miniemulsion polymerization and conventional emulsion polymerization of MMA," 24^{ème} journées du Club Emulsion – 26-27 Septembre 2005, Montpellier, France.

2004

64. Boutti, S., T.F. McKenna, "Unseeded Production of High Solid Content Low Viscosity Latexes," Polymerisation in Dispersed Media, Lyon, France, 4-8 April, 2004.
63. Pishvaie, M., C. Graillat, T.F. McKenna, P. Cassagnau, "Rheological Behaviour of Polystyrene Latex Near the Maximum Packing Fraction of Particles," Polymerisation in Dispersed Media, Lyon, France, 4-8 April, 2004.
62. Eriksson, E., Y. Banat, G. Weickert, T.F. McKenna, "CFD simulation of gas phase polyolefin microreactors," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany
61. Di Martino A., T.F. McKenna, G. Weickert, F. Sidoroff, "Toward a realistic model of particle fragmentation," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany
60. Farshchi, F., A.F. Santos, S. Othman, H. Hammouri, T. F. McKenna, "Monitoring of Emulsion Polymerization Using Conductimetry," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany
59. Bouzid, D., T.F. McKenna, "Effect of polypropylene particle size on the morphology of high impact polypropylene particles," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany
58. Pishvaie, M., C. Graillat, T.F. McKenna, P. Cassagnau, "Rheological behaviour of highly concentrated polystyrene latex near the maximum packing fraction of particles," 8th International Workshop on Polymer Reaction Engineering, 4-6 October, 2004, Hamburg, Germany.

2003

57. Ouzineb, K., C. Graillat, M. Dubé, R. Jovanovic, T.F. McKenna, " Compartmentalization in Miniemulsion Polymerization." Poster Presentation at Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada
56. Fortuny, M., C. Graillat, T.F. McKenna, " Particle coagulation during nucleation: experimental and modelling study." Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada.
55. Jovanovic, R., McKenna, T.F., Dubé, M.A., Poster: Structure-Property Relationships of BA/VAc/AA-Based Pressure Sensitive Adhesives, Polymer Reaction Engineering V, Québec City, QC, May 18-23, 2003
54. Santos,A.F., E.L. Lima, J.C. Pinto, C. Graillat, T.F. McKenna, "On-line monitoring of emulsion polymerisation using conductivity measurements," Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada
53. Bouzid, D., T.F. McKenna, "Evolution of particle morphology during the production of high impact polypropylene," Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada
52. Boutti, S., C. Graillat, T.F. McKenna, "New routes to high solids content latexes: A process for in situ particle nucleation and growth," Polymer Reaction Engineering V, 18-23 May 2003, Québec, Canada
51. Jovanovic, R., McKenna, T.F., Dubé, M.A., A Constrained Mixture Design for Modeling Pressure Sensitive Adhesive Performance, 53rd Can. Chem. Eng. Conf., Hamilton, ON, Oct. 26-29, 2003
50. McKenna, T.F., Ouzineb, K., Dubé, M.A., Jovanovic, R., Hua, H., Compartmentalisation in Miniemulsion Polymerisation: Fundamental Study and Potential Applications, 53rd Can. Chem. Eng. Conf., Hamilton, ON, Oct. 26-29, 2003
49. Jovanovic, R., McKenna, T.F., Dubé, M.A., Poster: Modeling the Final Properties of Emulsion-Based Pressure Sensitive Adhesives, Gordon Conference: Polymer Colloids, Tilton, NH, U.S.A., June 29-July 4, 2003.
48. Eriksson, E., T.F. McKenna, Poster: CFD Modelling of Heat Transfer in Gas Phase Polyolefin Polymerisation, Polymer Reaction Engineering: Modelling, Optimisation and Control, 16èmes Entretiens Jacques Cartier, Lyon, France, 1-3 Decembre, 2003.
47. Farshchi, F., Graillat, C., Othman, S., Hammouri, H., McKenna, T.F., "On-line monitoring and modelling of emulsion polymerisation of butyl acrylate using conductimetry," Polymer Reaction Engineering: Modelling, Optimisation and Control, 16èmes Entretiens Jacques Cartier, Lyon, France, 1-3 Decembre, 2003.
46. Vale, H., T.F. McKenna, "Dynamic Modeling of the Seeded Emulsion Polymerization of Vinyl Chloride," Polymer Reaction Engineering: Modelling, Optimisation and Control, 16èmes Entretiens Jacques Cartier, Lyon, France, 1-3 Decembre, 2003.

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45. Di Martino, A., T.F. McKenna, "Future Developments in the Tension Model: Toward a realistic model of particle fragmentation and growth" ECOREP II, 1-4 July, 2002, Lyon, France.
44. Bouzid, D., T.F. McKenna, " A preliminary study of the Morphology of impact copolymers," ECOREP II, 1-4 July, 2002, Lyon, France.
43. Eriksson, E., D. Cokljat, T.F. McKenna, "Heat transfer Modelling using CFD," ECOREP II, 1-4 July, 2002, Lyon, France.
42. Ouzineb, K., R. Jovanovic, M., Dubé, C. Graillat, T. McKenna, "Applications de la mini-Emulsion: Manipulation des masses molaires et synthèse de latex à haut taux de solides," Journées Club Emulsion, XXIème réunion du Club Emulsion, Arc et Senans, 14 et 15 October, 2002.
41. Santos, A.F., J.C. Pinto, C. Graillat, T.F. McKenna La mesure de Np avec la conductimétrie, Journées Club Emulsion, XXIème réunion du Club Emulsion, Arc et Senans, 14 et 15 October, 2002

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40. P. Kittilsen, H. Svendsen, H.A. Jakobsen, T.F. McKenna & S.B. Fredriksen, "The effect of initial conditions on morphology in heterogeneous olefin polymerization," poster at International symposium on future technologies for polyolefin and olefin polymerization catalysis, Tokyo Institute of Technology, Japan, 21-24 March 2001.
39. Fortuny-Heredia, M., C. Graillat, T.F. McKenna, "Experimental modeling of monomer partitioning in emulsion systems," Poster presentation at the Gordon Research Conference on Polymer Colloids, July 1-6, 2001 Tilton, NH, USA.
38. Schneider, M., I. Bétrémieux, A. Guyot, C. Graillat, T. McKenna, "Product development and rheology of high solids content latexes," Poster presentation at the Gordon Research Conference on Polymer Colloids, July 1-6, 2001 Tilton, NH, USA.
37. T.F. McKenna, C. Kiparissides, G. Weickert, G. Storti, "Results of the CATAPOL project: I. Single Particle Growth and Modelling," poster accepted for presentation at the 7th International Workshop on Polymer Reaction Engineering, Hamburg, Germany, 8-10 October, 2001.

36. Santos, A.F., F. Bentes Freire, J.C. Pinto, R. Giudici, C. Graillat, T.F. McKenna, "On-line Monitoring of Emulsion Polymerisations: Conductivity and Real Time Calorimetry," poster accepted for presentation at the 7th International Workshop on Polymer Reaction Engineering, Hamburg, Germany, 8-10 October, 2001.
35. Schneider, M., I. Bétrémieux, A. Guyot, T.F. McKenna, "High Solids Content Emulsions: Product Development and Rheological Characterisation," poster accepted for presentation at the 7th International Workshop on Polymer Reaction Engineering, Hamburg, Germany, 8-10 October, 2001.
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. Fevotte, "In-Line Dielectric Monitoring of MMA/BuA Copolymerization Reactions," Working Party on Polymer Reaction Engineering, Lausanne, Suisse, 21-22 October, 2000.

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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. Bétrémieux, "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. Cavaillé, 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

19. **A. Medeiros**, "Production of XSBR latexes" 2017-2018
18. **T. Chaparro**, "" 2017-2018
17. **B. Rezende Lara** "Impact of Catalyst Geometry on Polymerisation Kinetics" 2017-2018
16. **M.A. Bashir** "Prepolymerisation of propylene in the gas Phase" 2017
15. **Y. Yue**, "Gas Phase Polymerisation of Ethylene," 2016-18
14. **D. Cheng**, "Scale-up of Emulsion polymerisation Processes," 2016-17
13. **A. Alizadeh**, "Condensed mode cooling for polyolefins," 2014
12. **R Udagama**, "High Solid Content Paint Binders," 2013-2014
11. **J. POHN**, "Scale-up of emulsion polymerisation processes," 2013
10. **Raul P. MORAES**, "High solid content paper coatings," 2011
9. **Niels M.B. SMEETS**, "Creation of dispersions using novel technologies," 2009-2011
8. **Salima BOUTTI**, "Emulsification of acrylic monomers," 2009
7. **Yahya BANAT**, "Oscillating polymer structures," 2007 (Co- direction with Professor Guenter Weickert, U Twente)
6. **Audrey Di MARTINO**, "Kinetics of the nascent polymerisation of ethylene in the gas phase," 2006
5. **Erik ERIKSSON**, "Oscillating polymer structures," 2005-2006 (Co- direction with Professor Guenter Weickert, U Twente/PRT GmbH).
4. **Norma NEGRETE** "Clay-acrylic composite films via Miniemulsion Polymerisation," 2005-2006 (Co-direction with Mme Elodie BOURGEAT-LAMI).
3. **Djallel BOUZID**, "Use of Atomic Force Microscopy for the Study of High Impact Polypropylene" 2004-2005.
2. **Selwa BEN AMOR** "Suivie Calorimétrique et Commande des Réacteurs de Polymérisation, 1999-2000.
1. **Amilton MARTINS dos SANTOS**, " Commande des Réacteurs de Polymérisation," 1997

PhD Students

Current

51. **Mariana Guadalupe Torres**, "High solid content PVDF latexes," *coencadrée avec F. D'Agosto, M. Lansalot*, 10.2019-09.2022
50. **AbdulRahman Al-Beladi**, "Kinetics and morphology of gas phase polypropylene," 09.2019-09.2022
49. **Kusuma Kalajanpeng**, "Modelling of gas phase multizone PP reactors," 09.2019-09.2022
48. **Igor Monteiro**, "Coagulation of PVC microsuspensions," *coencadrée avec N. Sheibat-Othman (LAGEP)*
47. **Estela GELINSKI** "Coagulation in PVDF Emulsion Polymerisation" *coencadrée avec N. Sheibat-Othman (LAGEP)*
46. **Roberta LOPES do ROSARIO** "Chain Entanglement in UHMWPE"
45. **Niyi ISHOLA**, "Gas Phase Polymerisation of ethylene – Thermodynamics and modelling,"
44. **Rita ALVES**, "Condensed mode cooling of ethylene gas phase polymerisations"
43. **Amel BEN M'RAD**, "Thermodynamic aspects of olefin polymerisation," *coencadrée avec N. Sheibat-Othman (LAGEP)*
42. **Duarte CECILIO**, "Novel supports for metallocene catalysts" *Cotutelle University of Lisbon 2016-2019*
41. **Yashmin BLAZZIO**, "Specialised reactors for the study of olefin polymerisation,"

Defended

40. **Juliet SILVA**, "High solid content latex via PISA/conventional emulsion", *cotutelle avec University of Brazilia*
39. **Fabiana ANDRADE**, "The influence of complex gas phase compositions on the polymerisation of ethylene," 2015-2019
38. **Aaron CANCELAS**, "High Impact Polypropene: Structure Evolution and impact on Reaction," UCB-Lyon 1, Lyon, France, Soutenance October 26, 2017
37. **Anderson MADEIROS**, "Magnetic nanoparticles by Miniemulsion Polymerisation," Federal University of Brazilia, 2017 (co-direction, Prof. F. Machado Silva, UFB, Brazil)
36. **Barbara REZENDE LARA**, "Adhesive films," UCB-Lyon 1, Lyon, France, April 2017
35. **Muhammad Ahsan BASHIR**, "Study of the impact of the geometric parameters of catalyst support on olefin polymerisation," *UCB-Lyon 1, Lyon, France*, November 2016
34. **Solmaz ARYAFAR**, "Scale-up/Scale-down of latex production processes," *UCB-Lyon 1, Lyon, France*, Sotenu 10 Nov 2016
33. **Ana Carolina MENDEZ**, "Scale up of vinylidene fluoride emulsion polymerisation," UCB-Lyon 1, Lyon, France, Soutenu Octobre 18, 2016
32. **Leila SANTOS**, "On-line monitoring of miniemulsions," Universidade Tridente, Aracaju, Brésil, June 2015 (co-supervision with A. Santos, Brésil)

31. **Arash ALIZADEH**, "Advanced morphological models for olefin polymerisation," *Queen's University, Kingston, Canada*, Soutenance juin 2014
30. **Montree NAMKAJORN**, "Olefin polymerisation during condensed mode operation," Madihol University, Bangkok, Thailand, 2014 (co-supervision with Prof. E. Somsook).
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," (hèse 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), *Universidade 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**, "Etude 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)

32. **Igor Stefanichen Monteiro** "Copolymeris of VF2" *University of Sao Paulo, 2017*
31. **Amel Ben M'Rad** "Thermodynamics in the suspension polymerisation of ethylene" *MSc INSAT Tunis 2017*
30. **Rita Alveres**, "Modelling of ethylene polymerisation," *MSc IST Lisbon, 2015*
29. **Duarte Morais CECILIO**, "Modelling of the impact of gas phase conditions on ethylene polymerisation," *MSc IST Lisbon, 2015*
28. **André Filipe Prates PEREIRA**, "Experimental study of latex coagulation," *MSc IST Lisbon, 2015*
27. **Ana Rita MARTINS**, "Effect of inert condensing agent on olefin polymerisation," *MSc IST Lisbon, 2015*
26. **Cyntich NGODI**, "A miniature fluidised bed reactor for olefin polymerisation," *M2 UCB Lyon 1, Génie des Procédés, 2015-2015*
25. **Margarida MARQUES**, "Coagulation of emulsion polymerisations," *IST Lisbon, 2015-2015*
24. **Ana Cristina OLIVEIRA**, "Kinetic model of metallocene polymerisation," *IST Lisbon, 2015-2015*
23. **Pedro RAIHNO**, "Ternary PC-SAFT Model of Olefin Solubility in Polyolefins," *IST Lisbon, 2015-2015*
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 émulsion," *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 VILLANEVA** "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

37. **Paulo ASSIS**, "High Solid Content Latexes with PISA," USP – Lorena, BR, 2018
36. **Abilio Augusto José Forni**, "Shear Induced Coagulation," USP – Lorena, BR, 2018
35. **Paulo ASSIS**, "Lattices for drag reduction application," USP – Lorena, BR, 2016
34. **Brian ZHONG**, "The impact of alkanes on the softening of polyethylenes," MIT 2015
33. **José Carlos JIMENEZ MENDOSA**, "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 Sebastian, 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