

## Robert G Gilbert: conference presentations from 2000

- CO 1. Vorwerg L, Gilbert RG; Electrosteric stabilization with poly(acrylic acid) in emulsion polymerization: mechanistic understanding through gamma radiolysis; Radiation 2000, AINSE, Lucas Heights, Sydney, November 26-28, 2000.
- CO 2. Thornton LN, Gilbert RG, Fellows CM; Effect of various surfactant systems on the water sensitivity of coatings; 38<sup>th</sup> IUPAC Macromolecular Symposium (Warsaw, 2000).
- CO 3. Taylor JR, Fellows CM, Gilbert RG; Surface tension as a function of conversion in emulsion polymerization; 38<sup>th</sup> IUPAC Macromolecular Symposium (Warsaw, 2000) P-586.
- CO 4. Zeaiter J, Gomes, VG, Romagnoli JA, Barton GW, Gilbert RG; Calorimetry for emulsion polymerisation: model validation and control strategy formulation; 28th Australasian Chemical Engineering Conference, B-3, ISBN 0-646-399910-1, IEAust, 2000.
- CO 5. De Bruyn H, Gilbert RG, Hawkett BS; Retardation by oxygen in emulsion polymerisation; 38<sup>th</sup> IUPAC Macromolecular Symposium, (Warsaw, 2000) P-578
- CO 6. Designer Polymer Colloids; RG Gilbert, Plenary Lecture at World Polymer Congress, Warsaw, Aug 2000.
- CO 7. Poly(vinyl acetate) glues: an introduction to the scientific process; RG Gilbert, S Prescott and CM Fellows, paper in polymer education session at World Polymer Congress, Warsaw, Aug 2000.
- CO 8. Topology-controlled emulsion polymerization; RG Gilbert, D Lamb, N Subramaniam, CM Fellows, JF Anstey, DY Lee, invited talk at Gomberg Centenary Conference on Free Radicals, Michigan, Aug 2000.
- CO 9. Inhibition and retardation in emulsion polymerization; RG Gilbert, H deBruyn, ACS Colloid Symposium, Pennsylvania, Aug 2000.
- CO 10. Shearing and colloidal stability in emulsion polymerisation; Fugang Li, Vincent G. Taylor JR, Fellows CM, Gilbert RG; Modelling surface tension in the seeded emulsion polymerization of styrene; 24th Australasian Polymer Symp. (Beechworth 2001), C2/6.
- CO 11. Ferguson CJ, Gilbert RG, Grigsby WJ, Russell GT; Determining adhesive properties of structured polystyrene/poly(vinyl acetate) latices; 24th Australasian Polymer Symp. (Beechworth, 2001), C2/3.
- CO 12. Zeaiter J, Gomes VG, Romagnoli JA, Barton GW, Gilbert RG; Strategies for optimisation and control of molecular weight and particle size distributions in emulsion polymerisation; ESCAPE-11, (Lyngby, 2001).
- CO 13. Pham BTT, Gilbert RG; Grafting in miniemulsion polymerization; 24th Australasian Polymer Symp. (Beechworth, 2001), PB25.
- CO 14. Lamb D, Gilbert RG; Novel topologies in emulsion polymerisation; 24th Australasian Polymer Symp. (Beechworth, 2001), PB16.
- CO 15. Van Berkel K, Russell GT, Gilbert RG; Nanoscale surface processes in emulsion polymerisation; 24th Australasian Polymer Symp. (Beechworth, 2001), PA32.
- CO 16. Li F, Gomes VG, Fellows CM, Gilbert RG; Shearing and colloidal stability in emulsion polymerization; 24th Australasian Polymer Symp. (Beechworth, 2001), P-A15
- CO 17. Chiou H, Fitzgerald MA, Fellows CM, Gilbert RG; Molecular weight distribution of starch; 24th Australasian Polymer Symp. (Beechworth, 2001), PB6.
- CO 18. Branching in emulsion polymerization - control and effects on mechanical properties; Toh J, Fellows CM, Lee DY, Tanner RI, Former C, Gilbert RG; 24th Australasian Polymer Symp. (Beechworth, 2001).
- CO 19. Mechanism of hollow particle formation; Castro JV, Gilbert RG; 24th Australasian Polymer Symp. (Beechworth, 2001), PA2

- CO 20. Gomes, Christopher M Fellows and Robert G. Gilbert; 6<sup>th</sup> World Chem Eng Conf Melbourne, 2001.
- CO 21. Characterization Of Shear And Colloidal Stability In Emulsion Polymerisation; Fugang Li, Vincent G. Gomes, Christopher M Fellows and Robert G. Gilbert; invited lecture at POLYCHAR 2001 (Texas).
- CO 22. Synthetic modification of natural rubber latex: new materials from topology-controlled polymerization; N Subramaniam, D Lamb, D-Y Lee, C Fellows and RG Gilbert. International Rubber Conference (Melbourne), 2000.
- CO 23. Characterization and Modification of Natural Hydrocolloids with the Techniques of Synthetic Polymer Colloids. Plenary Lecture at Polymer Colloids Forum (Guildford, UK, April 2001). H Chiou, CM Fellows, MA Fitzgerald, RG Gilbert.
- CO 24. Small-molecule diffusion in polymeric matrices: testing free-volume theory in rubbery and glassy polymers. IUPAC Conference on Macromolecules & Materials Science (Stellenbosch, South Africa, April 2001). MP Tonge, RG Gilbert.
- CO 25. Starch hydrocolloids: novel analytical techniques, mechanisms and control of food properties. Plenary Lecture at IUPAC Conference on Macromolecules & Materials Science (Stellenbosch, South Africa, April 2001). H Chiou, CM Fellows, MA Fitzgerald, RG Gilbert.
- CO 26. Pulsed Laser Polymerization Involving Fragmentation of the Propagating Radical; Kenta Tanaka, Bunichiro Yamada, and Robert G. Gilbert. Society of Polymer Science Japan, Annual Meeting, Osaka, May 2001.
- CO 27. Gilbert RG, Branching in free-radical polymerization: kinetics and effects on mechanical properties, International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 28. Tanaka K, Yamada B, Gilbert RG, Pulsed Laser Polymerization Involving Fragmentation of the Propagating Radical, International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 29. Ferguson CJ, Gilbert RG, Russell GT, Structured latices from vinyl acetate and styrene: synthesis and properties, International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 30. Prescott SW, Fellows CM, Considine RF, Drummond CJ, Gilbert RG, Free-Radical Polymerization to Create Coated Particles for Interaction Studies: The Interactions of Amphiphilic Latexes with Surfaces, International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 31. Prescott SW, Fellows CM, Ballard MJ, Rizzardo E, Gilbert RG, RAFT Techniques in Emulsion Polymerization: Living Character, RAFT Agent Transport and Rate of Polymerization, International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 32. Van Berkel, KY, Russell GT, Gilbert RG, Nanoscale Surface Processes in Emulsion Polymerization, International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 33. Smulders W, Monteiro M, Gilbert RG, Seeded emulsion polymerization in the presence of RAFT agents. International Symposium on Free Radical Polymerization: Kinetics and Mechanism (Il Ciocco, Italy, June 2001)
- CO 34. Vivayganathan K, Gilbert RG, Gan SN, Lai PF, Graft Copolymerization of Dimethylaminoethyl Methacrylate Onto Natural Rubber in Latex; National Symposium on Polymeric Materials (NSPM2001), 2-3 October 2001, Bandar Baru, Bangi, Selangor, Malaysia.
- CO 35. Shin JS, Lee DY, Kim JH, R.G. Gilbert, Kinetics of Seeded Emulsion Polymerization in the Presence of Low Molecular Weight Carboxylic Resin. Gordon Conference, Tilton, New Hampshire, July 2001
- CO 36. Li F, Hawkett BS, Vorwerg L, Gomes VG, Fellows CM, Gilbert RG, Shearing and Colloidal Stability in Emulsion Polymerization, Gordon Conference, Tilton, New Hampshire, July 2001

- CO 37. Keslerek A, Galembeck F, Gilbert RG, Compartmentalization Effects in Paint Formulations, World Chemistry Congress, Brisbane, July 2001
- CO 38. Piat L, Gilbert RG, Kinetics of Surface Grafting Reactions on Polybutadiene Latices, World Chemistry Congress, Brisbane, July 2001
- CO 39. Chiou H, Fellows CM, Fitzgerald MA, Gilbert RG, Molecular Weight Distribution of Starch, World Chemistry Congress, Brisbane, July 2001
- CO 40. Castro JV, Gilbert RG, Mechanism of Hollow Particle Formation, World Chemistry Congress, Brisbane, July 2001
- CO 41. Zeaiter J, Gomes VG, Romagnoli JA, Barton GW, Gilbert RG, Modelling and control of molecular weight and particle size distributions in styrene emulsion polymerization. 6<sup>th</sup> World Chemical Engineering Congress, Melbourne, Sept 2001
- CO 42. Prescott SW, Fellows CM, Ballard MJ, Rizzardo E, Gilbert RG, RAFT techniques in emulsion polymerization: living character, RAFT agent transport and rate of polymerization. Europolymer Conference, Eindhoven, The Netherlands, July 2001
- CO 43. Prescott SW, Fellows CM, Considine RF, Drummond CJ, Gilbert RG, Free-radical polymerization to create coated particles for interaction studies: the interactions of amphiphilic latexes with surfaces. Bratislava Microsymposium, Slovakia, July 2001.
- CO 44. Chiou H, Castro JV, Fellows CM, Fitzgerald M, Morell M, Gilbert RG, Utilisation des techniques de synthèse et de caractérisation des polymères. Application à l'étude des colloïdes naturels pour une meilleure alimentation. *Club Emulsion* conference, Lyon, October 2001
- CO 45. Chiou H, Castro JV, Fellows CM, Fitzgerald M, Morell M, Gilbert RG, Characterization and modification of natural hydrocolloids with the techniques of synthetic polymer colloids. IX International Macromolecular Colloquium/6<sup>o</sup> Congresso Brasileiro de Polímeros, Gramado, November 2001 (plenary); Singapore International Chemistry Congress (Singapore, Dec 2001)
- CO 46. Oliveira PC, Santos AM, Zavaglia CAC, Gilbert RG, Aplicação de princípios de mecanismos de reação para modificação do látex de borracha natural empregando a técnica de polimerização por semente. IX International Macromolecular Colloquium/6<sup>o</sup> Congresso Brasileiro de Polímeros, Gramado, November 2001
- CO 47. Gilbert RG, Branching in Free-Radical Polymerization: Kinetics and Effects on Mechanical Properties, International Symposium On Free Radical Polymerization; Lucca, Italy, June 2001
- CO 48. Chiou H, Castro JV, Fellows CM, Fitzgerald MA, Gilbert RG, Characterization and Modification of Natural Hydrocolloids with the Techniques of Synthetic Polymer Colloids, Plenary Lecture at Polymer Colloids Forum, Guildford, UK, April 2001
- CO 49. Chiou H, Fitzgerald MA, Fellows CM, Gilbert RG, A swell way to examine architecture of rice starch. Annual conference of the CRC for Sustainable Rice Production, Griffith NSW, Feb 2002
- CO 50. Gilbert RG, RAFT in Emulsion Polymerization: What makes it different, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002.
- CO 51. Prescott SW, Ballard MJ, Rizzardo E, Gilbert RG, RAFT Techniques in Emulsion Polymerization: Living Character, RAFT Agent Transport and Rate of Polymerization, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002.
- CO 52. Li F, Gomes VG, Fellows CM, Hawke BS, Gilbert RG, Characterization of Shear and Colloidal Stability in Emulsion Polymerization, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 53. Gilbert RG, Vivayganathan K, Gan SN, Lai PF, Fellows CM, Overcoming the Allergy Problem in Surgical Gloves, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 54. Van Berkel K, Russell GT, Gilbert RG, Entry in Emulsion Polymerization, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002

- CO 55. Castro JV, Chiou H, Fitzgerald M, Gilbert RG, Morell M, Starch Hydrocolloids: Novel Analytical Techniques, Mechanisms and Control of Food Properties, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 56. Warrender GW, Gilbert RG, Fellows CM, Copeland L, The Good, the Bad, and the Snotty: Water, Metals and Polyacrylamides, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 57. Williams S, Gilbert RG, Fellows CM, Coagulation in Emulsion Polymerization, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 58. Lamb DJ, Morrison B, Gilbert RG, Fellows CM, Redox Initiators, Calorimetry and Emulsion Polymerization, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 59. De Bruyn H, Gilbert RG, White JW, Schultz J, SANS Study of Electrosterically-Stabilized Polystyrene Latex, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 60. Fellows CM, Chiou H, Gilbert RG, Fitzgerald MA, The Influence of Branching Structure on the Gelatinization Temperature of Rice Starch, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 61. Kangwonsupamonkon W, Kiattkamjornwong S, Fellows CM, Gilbert RG, Kinetics of Surface Grafting Reaction on Polyisoprene Latices, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 62. Fellows CM, Butler LN, Gilbert RG, The Effect of Electrosteric Stabilizers on the Water Sensitivity of Cast Latex Films, 25th Australasian Polymer Symposium, Armidale, New South Wales, Feb 2002
- CO 63. Tanaka K, Yamada B, Gilbert RG, Pulsed Laser Polymerization Involving Fragmentation of the Propagating Radical, Society of Polymer Science Japan, Annual Meeting, Osaka, May 2001
- CO 64. Li F, Gomes VG, Fellows CM, Gilbert RG, Shearing and Colloidal Stability in Emulsion Polymerization, 6<sup>th</sup> World Chem Eng Conf, Melbourne, 2001.
- CO 65. Tonge MP, Gilbert RG, Small-Molecule Diffusion in Polymeric Matrices: Testing Free-Volume Theory in Rubbery and Glassy Polymers, IUPAC Conference on Macromolecules & Materials Science, Stellenbosch, South Africa, April 2001
- CO 66. Chiou H, Fellows CM, Fitzgerald MA, Gilbert RG, Starch Hydrocolloids: Novel Analytical Techniques, Mechanisms and Control of Food Properties, plenary lecture at IUPAC Conference on Macromolecules & Materials Science, Stellenbosch, South Africa, April 2001
- CO 67. Zeaiter J, Gomes VG, Romagnoli JA, Barton GW, Gilbert RG, Strategies for Optimization and Control of Molecular Weight and Particle size Distributions in Emulsion Polymerization, ESCAPE-11, Lyngby, 2001. Zeaiter J, Romagnoli JA, Barton GW, Gomes VG. On-line optimal control of particle size distribution in emulsion polymerisation. European Symposium on Computer Aided Process Engineering-12, 607-612, 2002
- CO 68. Chiou H, Fitzgerald MA, Fellows CM, Gilbert RG, A swell way to examine the architecture of rice starch. Annual conference of the CRC for Sustainable Rice Production, Griffith NSW, February 2002.
- CO 69. Gilbert RG, RAFT in emulsion polymerization: what makes it different, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, New South Wales, February 2002.
- CO 70. Prescott SW, Ballard MJ, Rizzardo E, Gilbert RG, RAFT techniques in emulsion polymerization: living character, RAFT agent transport and rate of polymerization, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002.
- CO 71. Li F, Gomes VG, Fellows CM, Hawkett BS, Gilbert RG, Characterization of Shear and Colloidal Stability in Emulsion Polymerization, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002

- CO 72. Gilbert RG, Vivayganathan K, Gan SN, Lai PF, Fellows CM, Overcoming the Allergy Problem in Surgical Gloves, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 73. Van Berkel K, Russell GT, Gilbert RG, Entry in Emulsion Polymerization, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 74. Castro JV, Chiou H, Fitzgerald M, Gilbert RG, Morell M, Starch Hydrocolloids: Novel Analytical Techniques, Mechanisms and Control of Food Properties, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 75. Warrender GW, Gilbert RG, Fellows CM, Copeland L, The good, the bad, and the snotty: water, metals and polyacrylamides, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 76. Williams S, Gilbert RG, Fellows CM, Coagulation in emulsion polymerization, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 77. Lamb DJ, Morrison B, Gilbert RG, Fellows CM, Redox initiators, calorimetry and emulsion polymerization, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 78. De Bruyn H, Gilbert RG, White JW, Schultz J, SANS Study of electrosterically-stabilized polystyrene latex, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 79. Fellows CM, Chiou H, Gilbert RG, Fitzgerald MA, The influence of branching structure on the gelatinization Temperature of rice starch, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 80. Kangwonsupamonkon W, Kiatkamjornwong S, Fellows CM, Gilbert RG, Kinetics of Surface Grafting Reaction on Polyisoprene Latices, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 81. Fellows CM, Butler LN, Gilbert RG, The effect of electrosteric stabilizers on the water sensitivity of cast latex films, 25<sup>th</sup> Australasian Polymer Symposium, Armidale, NSW, February 2002
- CO 82. Zondanos HS, Chiou HC, Gilbert RG, Ward, RM, Martin M, Blackburn HI, Fitzgerald MA, Starch synthesis: unique processes for unique rices. American Assoc of Cereal Chemists, Rice Symposium, Montreal, October 2002
- CO 83. Gilbert RG, Free radical chemistry. IUPAC Conference on Macromolecules and Materials Science and UNSECO School, Stellenbosch, South Africa, March 2002
- CO 84. Gilbert RG, Ferguson CJ, Hughes RJ, Pham BTT, Hawkett BS, Serelis AK, Such CH, Prescott SW, Smulders W, Monteiro MJ, Ballard MJ, Rizzardo E, RAFT in emulsion polymerization. IUPAC Conference on Macromolecules and Materials Science and UNESCO School, Stellenbosch, South Africa, March 2002
- CO 85. Gilbert RG, F Li, Williams S, Gomes VG, Kalt P, Fellows C, Y Chen, Characterization of shear and colloidal stability in emulsion polymerization. IUPAC Conference on Macromolecules and Materials Science and UNESCO School, Stellenbosch, South Africa, March 2002
- CO 86. Chiou HC, Gilbert RG, Fellows CM, Fitzgerald MA, Quantifying amylopectin branching structure of rice with varying amylase content. New Approaches in Starch Science and Carbohydrate-Active Enzymes, Tokyo, September 2002

- CO 87. Gilbert RG, F Li, Williams S, Fellows CM, Hawkett BS, Gomes VG, Kalt P, Y Chen, Shear-induced coagulation in emulsion polymerization systems. ACS National Convention, Boston, August 2002 [*Polymeric Materials Science and Engineering*, **87**, 504 (2002).]
- CO 88. Gilbert RG, Prescott SW, Smulders W, Monteiro MJ, Ballard MJ, Rizzardo E, RAFT in emulsion polymerization: what makes it different. ACS National Convention, Boston, August 2002
- CO 89. Prescott SW, Ballard MJ, Rizzardo E, Gilbert RG, RAFT techniques in emulsion polymerization: Rate of polymerization and radical phase transfer events. ACS National Convention, Boston, August 2002 [*Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)*, **43**, 146-7 (2002).]
- CO 90. Castro JV, Chiou HC, Fitzgerald MA, Morell MA, Gilbert RG, Understanding the structure and synthesis of starch in cereal crops using synthetic polymer methodologies. Macromolecules in the 21<sup>st</sup> century, Vienna, October 2002
- CO 91. Williams SR, F. Li, Corby N, Zeaiter J, Gilbert RG, Understanding shear-induced coagulation in emulsion polymerization systems. UK Polymer Colloids Forum, September 2002
- CO 92. Vosloo JJ, D'Agosto F, Fellows CM, Tonge MP, Sanderson RD, Gilbert RG, Kinetic study of the free radical copolymerization of butylmethacrylate and n-acryloxysuccinimide. IUPAC World Polymer Congress 2002, 39<sup>th</sup> International Symposium on Macromolecules, Beijing, July 2002
- CO 93. Synthesis of latex particles bearing hairs of controlled chain length and functionality, Franck d'Agosto, Marie-Thérèse Charreyre, Christian Pichot, Bernard Mandrand, Robert G. Gilbert. International Conference on Polymer Synthesis, Warwick, UK, July 2002.
- CO 94. Making surface coatings with emulsion polymerization technology: the old and the new Robert G Gilbert and Brian S Hawkett. Surface Coatings of Australian Annual Conference, Hobart, Aug 2002.
- CO 95. Ferguson CJ, Hughes RJ, Pham BTT, Hawkett BS, Gilbert RG, Serelis AK, Such CH. From dream to reality in controlled radical polymerization: RAFT in emulsion. IUPAC Polymer Conference on the Mission and Challenges of Polymer Science and Technology, Kyoto, December 2002
- CO 96. MJ Fletcher, DS Kent, GM Gurr, JC Chang, B Gilbert, H Löcker, 'The first record of silk' Ferguson CJ, Hawkett BS, Lamb DJ, Pham BTT, RGG.
- CO 97. *Characterising Particle Size and Molecular Weight Distributions in Polymer Colloids: Problems, Solutions and What Can Be Learnt* 11<sup>th</sup> POLY-CHAR conference, Texas, January 2003
- CO 98. CJ Ferguson, Dc Nguyen, BTT Pham, BS Hawkett, AK Serelis, CH Such, SW Prescott, RG Gilbert. Controlled radical polymerization in emulsion systems: from dream to reality. Invited Lecture at European Polymer Federation Conference, Stockholm, June 2003
- CO 99. Stuart Prescott, RG Gilbert, MJ Ballard, E Rizzardo, Chain-Length dependence in living polymerizations: Physical manifestation and Monte Carlo simulation of RAFT Agents in emulsion polymerization. Gordon Research Conference on Polymer Colloids (Tilton, New Hampshire, June 29- July 4 2003)
- CO 100. J.J. Vosloo, M.P. Tonge, C.F. Fellows, R.D. Sanderson, R.G. Gilbert. Controlled synthesis of Branched Architectures, Gordon Research Conference on Polymer Colloids (Tilton, New Hampshire, June 29- July 4 2003)

- CO 101. F. D'Agosto, M.T. Charreyre, C. Picot, R.G. Gilbert. Latex particles bearing hydrophilic grafted hairs with controlled chain length and functionality synthesized by RAFT, Gordon Research Conference on Polymer Colloids (Tilton, New Hampshire, June 29- July 4 2003)
- CO 102. H. Chiou, R.G. Gilbert, M.A. Fitzgerald, C.M. Fellows. Progress in the study of rice starch structure, Gordon Research Conference on Polymer Colloids (Tilton, New Hampshire, June 29- July 4 2003).
- CO 103. J.V. Castro, H.C. Chiou, C.M. Fellows, M.A. Fitzgerald, M.K. Morell, R.G. Gilbert, Insights into the biosynthesis of starch and other biopolymers in vivo from molecular weight distributions. Gordon Research Conference on Polymer Colloids (Tilton, New Hampshire, June 29- July 4 2003).
- CO 104. Christopher Ferguson, Robert G Gilbert, Brian S. Hawkett, Duc Nguyen, Binh TT Pham, Creating latexes using RAFT polymerization. Gordon Research Conference on Polymer Colloids (Tilton, New Hampshire, June 29- July 4 2003).
- CO 105. R.G. Gilbert, C.J. Ferguson, D. Nguyen, B. Pham, S.W. Prescott, B.S. Hawkett, A.K. Serelis, C.H. Such. Invited speaker: Mechanisms for controlled radical polymerization in emulsion systems. IUPAC World Chemistry Congress, Ottawa, August 2003
- CO 106. Hollie Zondanos, Christopher J Ferguson, Robert G Gilbert. Creating a new generation of polymer colloids by controlled radical polymerization. German Colloid Society Conference, Bayreuth, September 2003. Invited speaker.
- CO 107. Scott Williams, Fugang Li, Chris Fellows, Robert G. Gilbert, Nigel Corby, Peter Kalt, Yungcheng Chen, Joseph Zeaiter, Vince Gomes. La modélisation de la coagulation induite par cisaillement en polymérisation en émulsion. Club Emulsion (French language conference), Paris, Oct 2003
- CO 108. Characterization of precursors for polymer layered silicate nanocomposites used in dental materials. L.M. Stadtmueller, K.R. Ratinac, R.G. Gilbert and S.P. Ringer. Australian Microscopy and Microanalysis Society Conference (ACMM-18), Geelong on 2-6 February, 2003
- CO 109. David J. Lamb, C. M. Fellows, B. R. Morrison and R. G. Gilbert. Redox initiation in emulsion polymerization: a study by reaction calorimetry. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 110. Miniemulsion polymerization using amphiphathic macro RAFT agents as sole stabilizers; B.T.T. Pham, C.J. Ferguson, Brian S. Hawkett, R.G Gilbert, A.K. Serelis and C.H. Such. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 111. Using RAFT polymerization to create latexes with controlled chain architecture; Christopher J. Ferguson, R.G. Gilbert, B.S. Hawkett, D. Nguyen and B.T.T. Pham. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 112. Jaco J. Vosloo, M.P. Tonge, C.M. Fellows, R.D. Sanderson and R.G. Gilbert. Synthesis of controlled branched structures. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 113. H. Chiou, C.M. Fellows, M.A. Fitzgerald, R.G. Gilbert, M. Morell and Jeffrey Castro. Insights into starch synthesis from molecular weight distributions. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 114. Herbert Chiou, R.G. Gilbert, M.A. Fitzgerald, C.M. Fellows. Progress in the study of rice starch structure. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 115. J Strauch, J McDonald, BE Chapman, PW Kuchel, BS Hawkett, GE Roberts, MP Tonge, RG Gilbert. Diffusion of oligomers in a HEMA hydrogel. 26<sup>th</sup> Australasian Polymer Symposium 13-17 July 2003
- CO 116. Shane Seabrook, R. Gilbert and M. Monteiro. Fundamentals of acrylamide-based crosslinking reactions. Determination of acrylamide  $k_p$  using PLP-SEC method. Australasian Polymer Symposium 13-17 July 2003

- CO 117. Stuart W. Prescott, M.J. Ballard, E. Rizzardo and R.G. Gilbert. Chain-length dependence in living polymerizations: evidence from kinetic experiments and Monte Carlo simulation of RAFT agents in emulsion polymerization. Australasian Polymer Symposium 13-17 July 2003
- CO 118. Kim Y. van Berkel, G.T. Russell and R.G. Gilbert. Entry in emulsion polymerization. Australasian Polymer Symposium 13-17 July 2003
- CO 119. Robert Gilbert. The current state of quantitative models for emulsion polymerization: an overview of theory and experiment. Australasian Polymer Symposium 13-17 July 2003
- CO 120. Poly(DMAEMA) grafted natural rubber for silica composites application. A Guimarães, PC Oliveira, RG Gilbert, JY Cavaille, L Chazeau, AM Santos. (PDM Conference Lyon - France 2004)
- CO 121. MJ Fletcher, DS Kent, GM Gurr, JC Chang, B Gilbert, H Löcker, 'The first record of silk production in the Hemiptera', XXII International Congress of Entomology Brisbane, 2004
- CO 122. JJ Vosloo, MP Tonge, CM Fellows, F D'Agosto, RD Sanderson, RG Gilbert, 'Synthesis of Comb-like Polymers Using RAFT', 7<sup>th</sup> Annual UNESCO/IUPAC Conference on Macromolecules, Stellenbosch, South Africa, 5-8 April 2004
- CO 123. Ward, RM, Gilbert, RG, Conroy, J and Fitzgerald, MA, 'What defines a high temperature tolerant rice variety?' Poster at RACI Cereal Conf Canberra Sept 2004
- CO 124. RG Gilbert, C Ferguson, B Hawkett, B Pham, D Nguyen, J Leswin, D Lamb, C Such, A Serelis, 'RAFT in emulsion polymerizations: new mechanistic understanding', Invited lecture: World Polymer Congress Paris, July 2004
- CO 125. SA Seabrook, MP Tonge, RG Gilbert, 'Pulsed Laser Polymerization Study of the Propagation Kinetics of Acrylamide in Water' Poster: World Polymer Congress Paris, July 2004
- CO 126. C Ferguson, B Hawkett, B Pham, D Nguyen, J Leswin, D Lamb, C Such, A Serelis, RG Gilbert, 'Controlled radical polymerization: a new generation of surface coatings', Plenary by RGG. Nordic Polymer Days Turku, Finland, Aug 2004
- CO 127. CJ Ferguson, D Nguyen, BTT Pham, BS Hawkett, JSK Leswin, DJ Lamb, AK Serelis, CH Such, RG Gilbert, 'A New Generation of Synthetic Latexes: Controlled Radical Polymerization in Emulsions', Plenary by RGG, MCC2004—Macromolecular Science and its Impact on Industries, Kuala Lumpur Sept 2004
- CO 128. K Vivayananthan, PF Lai, SN Gan and RG Gilbert, 'Some aspects of the polymerization mechanism and resultant properties of NR latex modified with DMAEMA' (MCC2004 - Macromolecular Science and its Impact on Industries, Kuala Lumpur, Sept 2004
- CO 129. Fitzgerald MA, Cuevas RP, Ward RM, Castro JV, Gilbert RG, 'New Tools for Understanding Starch Synthesis', World Rice Research Conference, Tokyo November 2004
- CO 130. D Willoughby, RG Gilbert, MA Fitzgerald, 'Unravelling the RVA curve of waxy rices', RACI Cereal Chemistry Conference, Canberra 2004
- CO 131. Ward RM, Gilbert RG, Fitzgerald MA. 'What defines a high-temperature tolerant rice variety?', RACI Cereal Chemistry Conference, Canberra 2004
- CO 132. Fitzgerald MA, Ward RM, Gilbert RG 'Starch, the 8th mystery of the world' Arkansas Industry Rice Research Symposium May 2004
- CO 133. Gilbert RG 'Controlled Radical Polymerization In Disperse Systems' plenary lect at Solomon 75<sup>th</sup> birthday symposium Melbourne Nov 2004

- CO 134. Gilbert RG 'Molecular weights of natural and synthetic polymers: measurement and effects on properties', lecture in 6<sup>th</sup> Australasian Polymer Summer School, Florieu Peninsula, S.A. Nov 2004
- CO 135. O Aungsupravate, MP Tonge, D Lucas, RG Gilbert. 'Synthesis and properties of butadiene-based polymer backbones for barrier products', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 136. RG Gilbert, K van Berkel, GT Russell 'Molecular weight distribution in free-radical polymerization: a mystery solved', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 137. S Thickett, RG Gilbert 'Propagation rate coefficient of acrylic acid: theoretical investigation of the solvent effect', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 138. S Seabrook, RG Gilbert, MP Tonge 'Pulsed-laser polymerization study of the propagation kinetics of acrylamide in water', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 139. L Stadtmueller, KR Ratinac, RG Gilbert, SP Ringer 'Intragallery vs. extragallery polymerization of methacrylate-clay nanocomposites', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 140. J Castro, C Dumas, MA Fitzgerald, RG Gilbert and Matthew Morell 'The mysteries of starch, molecular weight distributions and column broadening on size exclusion chromatography', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 141. GT Russell, KY van Berkel, RG Gilbert 'do we really understand the kinetics of emulsion polymerization?', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 142. JJ Vosloo, MP Tonge, CM Fellows, F d'Agosto, RD Sanderson and RG Gilbert 'Branched polymers: Controlled synthesis, characterization and structure-property correlations', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 143. C Ferguson, JSK Leswin, D Nguyen, BTT Pham, DJ Lamb, BS Hawke, RG Gilbert, AK Serelis and CH Such. 'RAFT Polymerization in dispersed-phase systems', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 144. JJ Leswin, MP Tonge and RG Gilbert 'A Calorimetric study of particle formation in ab initio RAFT-controlled emulsion polymerization', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 145. SG White, RG Gilbert, MP Tonge 'Novel hydrocolloid membranes for biological systems', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 146. A Youssef, G Warrender, RG Gilbert 'Cost-effective extraction and separation of pectic substances from sugar-beet waste', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 147. O Aungsupravate, MP Tonge, D Lucas and RG Gilbert 'Synthesis and properties of butadiene-based polymer backbones for barrier products', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 148. EV Strounina, AK Whittaker, TM Nicholson, JJ Vosloo and RG Gilbert 'Applications of NMR imaging for the comb polymer rheology modelling', 27<sup>th</sup> Australasian Polymer Symposium Adelaide, Nov 2004
- CO 149. E Sprong, H de Bruyn, C Ferguson, B Hawke, B Pham, D Nguyen, J Leswin, C Such, A Serelis, RG Gilbert. Opening lecture (invited): 'Molecular watchmaking: ab initio emulsion polymerization by RAFT-Controlled Self-Assembly', 2nd International Symposium on Polymeric Microspheres, Fukui, Japan, March 2005
- CO 150. W Kangwansupamonkon, S Kiatkamjornwong, RG Gilbert, 'Effect of redox initiation types on emulsion polymerization of hydrophilic vinyl monomer onto natural rubber

latex', 2nd International Symposium on Polymeric Microspheres, Fukui, Japan, March 2005

- CO 151. E Sprong, J Leswin, D Lamb, C Ferguson, B Hawckett, Binh Pham, D Nguyen, C Such, A Serelis, RG Gilbert; 'Molecular watchmaking: ab initio emulsion polymerization by RAFT-controlled self-assembly', invited talk at IUPAC Conference Polymers for Africa, Mauritius June 2005
- CO 152. MA Fitzgerald, R Cuevas, Robert G Gilbert, 'Natural and un-natural variability in the structure and functional properties of waxy rice starch', invited talk at IUPAC Conference Polymers for Africa, Mauritius June 2005
- CO 153. RAFT in emulsion polymerization: model for particle formation; Joost S.K. Leswin, Ewan Sprong, David J. Lamb, Brian S. Hawckett and Robert G. Gilbert. Gordon Conference for Polymer Colloids, Tilton, New Hampshire, July 2005.
- CO 154. Kinetics of the Emulsion Polymerization of Styrene Using a Poly(n-Butyl Acrylate) Seed Latex: Is Chain Transfer to Polymer Significant? Stuart C. Thickett and Robert G. Gilbert. Gordon Conference for Polymer Colloids, Tilton, New Hampshire, July 2005.
- CO 155. Synthesis of Anisotropic Particles by Seeded Emulsion Polymerization. Eric B. Mock, Hank De Bruyn, Robert G. Gilbert, Subramanian Ramakrishnan and Charles F. Zukoski. AIChE conference, Cincinnati OH, Oct 2005.
- CO 156. *Synthesis of novel sterically-stabilized latexes*. M Retsch & RG Gilbert Poster Bayreuth Polymer Symposium, Germany, Sept 2005
- CO 157. Characterisation of leafhopper (*K. montana*) silk. J.C. Chang, M.J. Fletcher, G.M. Gurr, D.S. Kent and R.G. Gilbert. 12th International Auchenorrhyncha Congress, Berkeley, California. Aug 2005.
- CO 158. Les stabilisants électrostatiques en polymérisation en émulsion : similarités et différences entre les systèmes conventionnels et les systèmes RAFT. Joost Leswin, Ewan Sprong, Patrice Castignolles, Marianne Gaborieau, Brian Hawckett, Emily Hilder, Robert G Gilbert, *Club Emulsion* (French-language conference), Montpellier, Sept 2005.
- CO 159. Seabrook SA, Tonge MP, Gilbert RG. On-Line Investigation into Polyacrylamide Hydrogel Formation using a Remote Raman Probe. 6<sup>th</sup> Australian Conference on Vibrational Spectroscopy, Sydney, Australia, September 2005.
- CO 160. J.J. Vosloo, M.P. Tonge, C.M. Fellows, F. D'Agosto, R.D. Sanderson, R.G. Gilbert. Controlled Synthesis and Characterization of Branched Polymers, 2005 RACI National Convention, Sydney.
- CO 161. Ekaterina V. Strounina, Andrew K. Whittaker, Timothy M. Nicholson, Johannes J. Vosloo and Robert G. Gilbert, Polymer Characterization Using Rheological NMR, CONNECT 12-th RACI Convention, Sydney, 07/05
- CO 162. 4th Australian-Korean Rheology Conference, Cairns, July 2005. "Thermal and Viscoelastic Structure Property Relationships of Model Comblike Poly(n-butyl methacrylate)" T M Nicholson, J J Vosloo, R G Gilbert
- CO 163. Quantitative information on starch synthesis from molecular weight distributions using rice as the model. M Fitzgerald, J Castro, D Willoughby, R Cuevas, RG Gilbert. American Assoc. Cereal Chemists conf., Orlando, FL, Sept 05.
- CO 164. RAFT polymerization in emulsion systems by self-assembly: particle size and molecular architecture. E Sprong, H deBruyn, CJ Ferguson, D Nguyen, BS Hawckett, RG Gilbert. American Chemical Society National Convention, Washington, Sept 2005

- CO 165. The Influence of Copolymerization with Methacrylic Acid on Poly(butyl acrylate) Film Properties; *Siyabonga Mange, Andrew Y. C. Koh, Marc Bothe, Reinhold J. Leyrer, Robert G. Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 166. Rate-Controlling Events for Radical Exit in Electrosterically Stabilized Emulsion Polymerization Systems *Stuart C. Thickett and Robert G. Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 167. High-Resolution Separation of Oligo(acrylic acid) by Capillary Electrophoresis *Marianne Gaborieau, Patrice Castignolles, Emily F. Hilder, Ewan Sprong, Christopher J. Ferguson, Robert G. Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 168. Determination of the molar mass distribution of non-charged hydrosoluble polymers *Patrice Castignolles, Polina Terpigova, Javier M. Hernandez, Siyabonga Mange, Marianne Gaborieau, Maud Save, Elena Chernikova, Bernadette Charleux, Gerhard Wegner, Robert G. Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 169. Synthesis and characterization of butadiene-methyl methacrylate carboxylated polymer: The effect of monomer and chemical structure on water vapour transmission and physical properties *Ornsiri Aungsupravate, Matthew P. Tonge, Patrice Castignolles, Marianne Gaborieau, Noorman Abu Hassan, David M. Lucas and Robert G. Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 170. Chain Transfer to Monomer in Butyl Methacrylate *D. F. Sangster, J. Strauch, M. Steng, J. Feldthusen, R. G. Gilbert and C. M. Fellows*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 171. A Mechanistic Investigation of Fluorinated Coatings for Stone Preservation *Ali Youssef, Robert G Gilbert and Martial Pabon*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 172. Deconvolution of Molecular Weight Distributions Obtained by Size Exclusion Chromatography *James W Taylor II, Patrice Castignolles, Robert G Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 173. **Keynote lecture:** Starch Structure and Biosynthesis: a Challenge for Synthetic Polymer Scientists *Javier M Hernandez, Jeffrey V Castro, Patrice Castignolles, Marianne Gaborieau, Angus A Gray-Weale, Christopher Watts, David J Lamb, Melissa A FitzGerald and Robert G Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 174. Particle Formation in RAFT-Mediated Emulsion Polymerization *Ewan Sprong, Robert G. Gilbert, Joost S.K. Leswin*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 175. A Novel Natural Polymer: Compositional and Morphological Characterization of Leafhopper (*Kahaono montana*) Silk Using FTIR Microscopy *Jung C. Chang, Murray J. Fletcher, Geoff M. Gurr, Deborah S. Kent, Robert G. Gilbert*; 28th Australasian Polymer Symp., Rotorua NZ, Feb 2006
- CO 176. Probable allelic variation in the  $Wx^a$  locus of non-waxy rice. R Ward, R Gilbert, M Fitzgerald. 31<sup>st</sup> Rice Technical Working Group Meeting, Texas, Feb 2006.
- CO 177. Emulsion Polymerization Involving Electrosteric Stabilizers: Using Gamma Radiation to Probe Radical Kinetics, SC Thickett, RG Gilbert. Radiation 2006, Sydney Mar 2006.
- CO 178. Branching in polyacrylates: short chain branching and long chain branching. Patrice Castignolles, Marianne Gaborieau, Anatoly N. Nikitin, Hans Wolfgang Spiess, Bernadette

- Charleux, Jean-Pierre Vairon, Robert G. Gilbert. Europolymer Conference. Italy May 2006.
- CO 179. Branching in starch: analysing its microstructure & understanding its biosynthesis. Javier Matias Hernandez, Chun-Wai Yuen, Rachelle M. Ward, Marianne Gaborieau, Patrice Castignolles, Robert G. Gilbert. Europolymer Conference. Italy May 2006.
- CO 180. Using controlled radical polymerization to understand processes in emulsion polymerization. R Gilbert, S Thickett. World Polymer Congress, Rio de Janeiro, July 2006 (Invited lecture)
- CO 181. Mechanistic study of a starch branching enzyme using tools used for the characterization of synthetic polymers - Matias Hernandez, P Castignolles, M Gaborieau; D Lamb, R Gilbert. World Polymer Congress, Rio de Janeiro, July 2006.
- CO 182. Untangling structure and function: a novel silk from the leafhopper *Kahaono montana*. J Chang, GM Gurr, MJ Fletcher, H Loeker, RG. Gilbert. Australian Entomological Society Conference, Adelaide Sept 2006.
- CO 183. Steric stabilizers in emulsion polymerizations: free-radical processes. S Thickett, H de Bruyn, E Hosseini, RG Gilbert. SML Conference on Free Radical Polymerization, Il Ciocco, Italy, Sept 2006 (invited lecture).
- CO 184. Starch-g-copolymer latexes initiated and stabilised by ozonolysed amylopectin. H De Bruyn, E Sprong, M Gaborieau, G David, JA Roper, RG Gilbert. SML Conference on Free Radical Polymerization, Il Ciocco, Italy, Sept 2006.
- CO 185. Radical entry mechanism in sterically stabilized particles in emulsion polymerizations. S Thickett, RG Gilbert. SML Conference on Free Radical Polymerization, Il Ciocco, Italy, Sept 2006.
- CO 186. Radical exit mechanisms in sterically stabilized particles in emulsion polymerizations. S Thickett, RG Gilbert. SML Conference on Free Radical Polymerization, Il Ciocco, Italy, Sept 2006
- CO 187. Transfer to polymer in alkyl acrylate polymerization: what do we learn from solid state NMR and multiple detection SEC? P Castignolles, M Gaborieau, AN Nikitin, M Save, B Charleux, J-P Vairon, RG Gilbert. SML Conference on Free Radical Polymerization, Il Ciocco, Italy, Sept 2006.
- CO 188. Making and Changing: The Next Generation of Barrier Products. RG Gilbert. International Rubber Glove Conference, Kuala Lumpur, Sept 2006 (Plenary Lecture).
- CO 189. Caractérisation de latex à base d'amidon par RMN, SEC et diffusion de lumière. A Dona, J Peate, C-W Yuen, P Castignolles, M Gaborieau, RG Gilbert. *Club Emulsion* (French-language conference), Strasbourg, September 2006.
- CO 190. Les latex synthétiques stabilisés par l'amidon. S Mange, H de Bruyn, C Dever, M Gaborieau, P Castignolles, RG Gilbert. *Club Emulsion* (French-language conference), Strasbourg, September 2006 (invited speaker).
- CO 191. Caractérisation de latex à base d'amidon par RMN, SEC et diffusion de lumière. M Gaborieau, P Castignolles, RG Gilbert. *Club Emulsion* (French-language conference), Strasbourg, September 2006
- CO 192. Importance des oligoacrylates en polymérisation contrôlée en émulsion. P Castignolles, M Gaborieau, RG Gilbert *Club Emulsion* (French-language conference), Strasbourg, September 2006

- CO 193. Interpreting SEC data on highly branched polymers. RG Gilbert, D Konkolewicz, AA Gray-Weale, A Dona, J Peate, P Castagnolles, M Gaborieau. SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 194. P Castignolles, M Gaborieau, JM Hernandez, B Charleux, A Gray-Weale, RG Gilbert. Multiple-detection size exclusion chromatography of complex branched polymers, such as polyacrylates or starch. SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 195. A Dona, CWW Yuen, J Peate, M Gaborieau, RG Gilbert, P Castignolles, Dissolution of starch, <sup>1</sup>H NMR and dynamic light scattering. SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 196. A Dona, Y Guillaneuf, P Perry, M Gaborieau, P Castignolles, RG Gilbert, Fluorescence recovery after photobleaching (FRAP) to characterize polysaccharides SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 197. D Konkolewicz, C Watts, A Gray-Weale, RG Gilbert, Interpreting SEC data on highly branched polymers. SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 198. D Konkolewicz, JW Taylor, P Castignolles, A Gray-Weale, RG Gilbert, Correcting for band broadening in size exclusion chromatography. SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 199. D Konkolewicz, A Gray-Weale, RG Gilbert, Modelling the structure of highly branched polymers. SCM-3 (3rd Int. Symp. on Separation and Characterization of Natural and Synthetic Macromolecules), Amsterdam, Jan/Feb 2007.
- CO 200. Characterisation of Starch by Diffusion and NMR Techniques. A Dona, J Peate, CW Yuen, M Gaborieau, P Castignolles, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 201. High-Resolution Separation of Oligoacrylates by Capillary Electrophoresis – Mass Spectrometry (CE-MS). EF Hilder, P Castignolles, M Gaborieau, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 202. Polymerically Stabilized Emulsion Systems: A New Kinetic Model. SC Thickett, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 203. Model for Highly Branched Polymers. D Konkolewicz, A Gray-Weale, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 204. Molecular Weight and Size Distributions of Rice: Structure-Property Relation. RP Cuevas, M Fitzgerald, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 205. Characterization of Complex Branched Polymers by NMR and SEC. P Castignolles, M Gaborieau, JM Hernandez, A Gray-Weale, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007

- CO 206. Rate Controlling Steps in the Emulsion Polymerization of (Electro)Sterically Stabilized Latexes. E Hosseini Nejad, H de Bruyn, Y Guillauneuf, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 207. Towards a Proper Characterisation of Native Starch. J Peate, A Dona, CY Yuen, M Gaborieau, P Castignolles, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 208. Molecular weight Distributions and Termination Rate Coefficients in Free-Radical Polymerization: Styrene. DI Christie, PA Clay, G Mouzet, H de Bruyn, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 209. Colloidal Stability of Sterically Stabilized Colloids using RAFT Technology to Control the Structure of the Stabilizing Layer. H de Bruyn, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 210. New Methods for the Characterization of Starch. A Dona, J Peate, CW Yuen, JM Hernandez, P Castignolles, M Gaborieau, RG Gilbert. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 211. Stone Impregnation Behaviour of Fluorinated Acrylates. A Youssef, RG Gilbert, M Pabon. 29<sup>th</sup> Australasian Polymer Symposium, Hobart, Feb 2007
- CO 212. Temperature sensitivity of the WX<sup>a</sup> locus of rice. R Ward, R Gilbert, M Fitzgerald, Workshop–International Network for Quality Rice, Manila, April 2007
- CO 213. Functional implications of long chains on starch. R Gilbert. Workshop–International Network for Quality Rice, Manila, April 2007 Invited talk.
- CO 214. Cooking properties of the starch granule. R Cuevas, R Gilbert, M Fitzgerald, Workshop–International Network for Quality Rice, Manila, April 2007
- CO 215. Structure-property relations in starch: characterization and nutrition. D Konkolewicz, A Gray-Weale, J Peate, A Dona, M Gaborieau, P Castignolles, RG Gilbert. Cereals in Europe, Montpellier (France), May 2007.
- CO 216. Starch: The ultimate branched polymer. D Konkolewicz, A Gray-Weale, M Hernandez, A Dona, M Gaborieau, P Castignolles, RG Gilbert, European Graduate School Minisymposium, Eindhoven, The Netherlands, June 2007 (invited talk).
- CO 217. Determination of molecular weights by Size Exclusion Chromatography and Capillary Electrophoresis. M Gaborieau, RG Gilbert, P Castignolles, European Graduate School Minisymposium, Eindhoven, The Netherlands, June 2007.
- CO 218. Fundamentals in emulsion polymerization: mechanisms. RG Gilbert, Gordon Research Seminar, Andover NH, June 2007 (Invited talk)
- CO 219. Mid-chain radicals: the barber of the hairy layer. Gordon Research Conference on Polymer Colloids, Tilton NH, June 2007, RG Gilbert, S Thickett, M Gaborieau (invited talk)
- CO 220. Polymerically Stabilized Emulsion Systems: New Understanding of Particle Growth and Formation S Thickett, M Gaborieau, RG Gilbert, Gordon Research Conference on Polymer Colloids, Tilton NH, June 2007
- CO 221. Mechanistic understanding of the effects of polymeric stabilizers in emulsion polymerization: the answer to long-standing problems. RG Gilbert, S Thickett, M Gaborieau, European Polymer Federation, Ljubljana, July 2007 (invited talk)

- CO 222. Determination of  $\bar{M}_n$  and  $\bar{M}_w$  by Size Exclusion Chromatography (SEC). P Castignolles, Y Guillauneuf, M Gaborieau, RG Gilbert. European Polymer Federation, Ljubljana, July 2007
- CO 223. Synthèse d'oligomères amphiphiles à base d'acide méthacrylique par raft: Mise en évidence de la formation d'acide dithiobenzoïque. EH Nejad, P Castignolles, RG Gilbert, Y Guillauneuf. *Club Emulsion*, France, Sept 2007
- CO 224. Starch-based latexes for coatings. S Mange, H de Bruyn, C Dever, M Gaborieau, P Castignolles, RG Gilbert. Surface Coatings Association of Australia conference, Gold Coast, Aug 2007 (invited talk).
- CO 225. Copolymers of starch and synthetic monomers. H de Bruyn, E Sprong, G David, S Mange, C Dever, P Castignolles, M Gaborieau, RG Gilbert. 57<sup>th</sup> Australian Cereal Chemistry Conference, Melbourne, Aug 2007.
- CO 226. Characterizing starch supramolecular structure. D Konkolewicz, A Gray-Weale, A Dona, M Gaborieau, P Castignolles, RG Gilbert. 57<sup>th</sup> Australian Cereal Chemistry Conference, Melbourne, Aug 2007.
- CO 227. Dissolution of starch studied by <sup>1</sup>H NMR and dynamic light scattering. A Dona, CWW Yuen, J Peate, RG Gilbert, P Castignolles, M Gaborieau. 57<sup>th</sup> Australian Cereal Chemistry Conference, Melbourne, Aug 2007.
- CO 228. The characterization of starch and the looming health crisis for Asia. D Konkolewicz, A Gray-Weale, A Dona, P Castignolles, M Gaborieau, RG Gilbert. 12<sup>th</sup> Asian Chemical Congress, Kuala Lumpur, Aug 2007 (Invited Keynote).
- CO 229. Starch: the most challenging polymer colloid. Plenary, UK Polymer Colloids Forum, Wariwck, Sept 2007 (Ottewill Prize lecture). L Hoang, A Landolfi, D Konkolewicz, AA Gray-Weale, M Gaborieau, P Castignolles, RG Gilbert.
- CO 230. Amylose and amylopectin: a rigorous means of defining and finding their ratio. RG Gilbert, Starch Round Table, San Antonio, Texas, Oct 2007
- CO 231. New ways to characterize the hierarchical structure of starch. L Hoang, O Thorn-Seshold, J Peate, D Konkolewicz, A Gray-Weale, A Dona, P Castignolles, M Gaborieau, RG Gilbert. AACC International Conference, San Antonio, Texas, Oct 2007
- CO 232. Monitoring Reaction Kinetics of Starch by NMR Spectroscopy. A Dona, P Castignolles, RG Gilbert, M Gaborieau, G Pages, P Kuchel. Symposium on NMR Imaging and Diffusion, Sydney, Oct 2007.
- CO 233. Monitoring Process Kinetics of Starch by NMR Spectroscopy. A Dona, P Castignolles, RG Gilbert, M Gaborieau, G Pages, P Kuchel. Australian Soc. for Biophysics Ann. Conf., Newcastle, Dec 2007.
- CO 234. Starch: characterizing Nature's most complicated nanoparticle. S Mange, H de Bruyn, L Hoang, O Thorn-Seshold, J Peate, D Konkolewicz, A Gray-Weale, A Dona, P Castignolles, M Gaborieau, RG Gilbert. Int. Conference on Bionanoscience, Taipei, Taiwan, Dec 2007 [invited].
- CO 235. Multi-detection SEC data for hyperbranched polymers: reduction to a small number of physically meaningful parameters. A Gray-Weale, D Konkolewicz, A-I Yeh, C-J Chen, M Gaborieau, P Castignolles, RG Gilbert. Workshop on Characterization of Highly Branched Polymers, Dresden, Feb 2008 (invited)

- CO 236. Mechanisms of separation of complex branched polymers by SEC and CE. M Gaborieau, RG Gilbert, P Castignolles. Workshop on Characterization of Highly Branched Polymers, Dresden, Feb 2008.
- CO 237. Interpreting multiple-detection size-separation data for starch. A Gray-Weale, J Peate, C-J Chen, A-I Yeh, KH Wong, M Gaborieau, P Castignolles, RG Gilbert. Starch 2008 – structure and functionality. Nottingham, UK, March 2008
- CO 238. Dissolution and separation of starch molecules, NMR spectroscopy and size exclusion chromatography. S Schmitz, NL Hoang, C-J Chen, A Kravchuk, O Kravchuk, JM Hernandez, A Dona, A-I Yeh, KH Wong, J Peate, RG Gilbert, M Gaborieau, P Castignolles. Starch 2008 – structure and functionality. Nottingham, UK, March 2008
- CO 239. Copolymers of starch and synthetic monomers. S Mange, H De Bruyn, A Brockmeyer, P Castignolles, RG Gilbert, M Gaborieau. Starch 2008 – structure and functionality. Nottingham, UK, March 2008
- CO 240. Starch as a biological nanoparticle: converting characterization data to structurally meaningful quantities. A Gray-Weale, J Peate, A-I Yeh, C-J Chen, M Gaborieau, P Castignolles, RG Gilbert. International workshop on Biomacromolecules 2008, Stockholm, June 2008 (invited talk).
- CO 241. At the frontiers of polymer science: starch and human nutrition. RG Gilbert. Aust. Inst. Food Science & Technology, 41<sup>st</sup> Annual Conf. Sydney July 2008. Plenary.
- CO 242. New size-exclusion methodology for the complete characterization of starch molecules. RG Gilbert, P Castignolles, J Peate, M Gaborieau, AA Gray-Weale. American Chemical Society Fall Meeting, Philadelphia, August 2008
- CO 243. What information can be obtained reliably from size separation of starch. J Andrieu, P Castignolles, RG Gilbert. Symposium on Cereal and Nutrition Sciences, Brisbane, Aug 2008.
- CO 244. The first complete size distributions of starch: overcoming the technical challenges and biological implications of the results. J Peate, RP Cuevas, MA Fitzgerald, RG Gilbert. Symposium on Cereal and Nutrition Sciences, Brisbane, Aug 2008.
- CO 245. Digestion of starch. T Witt, RG Gilbert, MJ Gidley. Symposium on Cereal and Nutrition Sciences, Brisbane, Aug 2008.
- CO 246. Effect of particle size on starch degradation. G Al-Rabadi, RG Gilbert, B Williams, P Torley, W Bryden, MJ Gidley. Symposium on Cereal and Nutrition Sciences, Brisbane, Aug 2008.
- CO 247. Starch: characterizing the most complex branched polymer of them all. J Andrieu, J Peate, T Witt, P Castignolles, RP Cuevas, MA Fitzgerald, CJ Chen, AI Yeh, RG Gilbert. UNESCO/IUPAC Conference on Macromolecules & Materials, Neilspruit, South Africa, Sept 2008 (invited lecture)
- CO 248. Obtaining and interpreting the full size distribution of native starch. J Andrieu, J Peate, T Witt, MJ Gidley, RP Cuevas, MA Fitzgerald, RG Gilbert. AACC International Annual Conference, Honolulu, Sept 2008.
- CO 249. Quantification of branching ratios in waxy rice (*Oryza sativa* L.) by nuclear resonance spectroscopy. RP Cuevas, M Gaborieau, RG Gilbert, MA Fitzgerald. AACC International Annual Conference, Honolulu, Sept 2008.

- CO 250. NMR analysis of the kinetics of carbohydrate digestion. A Dona, M Gaborieau, RG Gilbert, G Pages, PW Kuchel. Australian Society for Biophysics Annual Conference. Canberra, Sept 2008.
- CO 251. Characterizing a hyperbranched polymer: starch structure-property relations. J Peate, R Cuevas, T Witt, MA Fitzgerald, J Andrieu, P Castignolles, S Seabrook, RG Gilbert. 30th Australasian Polymer Symposium, Melbourne, Dec 2008
- CO 252. Diffusion and Viscosity in Polysaccharide Solutions : beyond Stokes-Einstein. KJ Shelat, A Aufort, TM Nicholson, KH Wong, MJ Gidley, RG Gilbert. 30th Australasian Polymer Symposium, Melbourne, Dec 2008
- CO 253. NMR analysis of the kinetics of starch digestion. A Dona1, M Gaborieau, RG Gilbert, G Pages, PW Kuchel. 30th Australasian Polymer Symposium, Melbourne, Dec 2008
- CO 254. Useful information from size separation data for branched polymers. J Peate, RP Cuevas, T Witt, R Cave, M Gidley, M Fitzgerald, S Seabrook, RG Gilbert. 4<sup>th</sup> Int. Symp. on Separation & Characterization of Natural & Synthetic Macromolecules (SCM-4). Amsterdam, Jan 2009.
- CO 255. Separation of branched (bio)polymers by size exclusion chromatography. D Page, J Peate, S Schmitz, M Gaborieau, RG Gilbert, P Castignolles. 4<sup>th</sup> Int. Symp. on Separation & Characterization of Natural & Synthetic Macromolecules (SCM-4). Amsterdam, Jan 2009.
- CO 256. Making branched polymers with controlled enzymatic polymerization. R Cave, J Peate, RP Cuevas, T Witt, M Gidley, M Fitzgerald, S Seabrook, RG Gilbert. *Materials of the future, science of today*, Melbourne, Feb 2009 (invited).
- CO 257. Applying polymer-separation strategies for the characterization of polysaccharides. P Schoenmakers, L Steeneken, FJ Vilapana Domingo, R Gilbert. HPLC 2009, July 2009, Dresden.
- CO 258. Towards new polymeric monolithic supports for amylose starch separations. FJ Vilapana Domingo, S Seabrook, R Gilbert, P Schoenmakers. HPLC 2009, July 2009, Dresden.
- CO 259. Measuring and utilizing the full size distributions of unperturbed native starch. RA Cave, J Hasjim, A Gray-Weale, RP Cuevas, T Witt, MJ Gidley, M Fitzgerald, RG Gilbert. XVII International Starch Convention. Moscow, June 2009 (invited)
- CO 260. Structure-property relations of complex branched polymers: starch structure and human health. RA Cave, T Witt, J Hasjim, M Gidley, RG Gilbert. IUPAC Congress 2009, Glasgow, August 2009 (invited Keynote).
- CO 261. Effect of particle size of barley and sorghum on the kinetics of in vitro starch digestion by porcine alpha-amylase. GJ Al-Rabadi, RG Gilbert, MJ Gidley. Australian Pig Science Association Conference, Nov 2009, Cairns.
- CO 262. Learning from debranched and fully branched size distributions of starch, A Gray-Weale, RA Cave, RG Gilbert. *Starch Round Table*, Baltimore, Sept 2009.
- CO 263. Limitations in the effectiveness of size exclusion chromatography (SEC, or GPC) on the analysis of starch. RA Cave, SA Seabrook, MJ Gidley, RG Gilbert. AACC International conference, Baltimore, Sept 2009
- CO 264. New information from starch chain-length distributions. J Hasjim, MJ Gidley, RG Gilbert. AACC International conference, Baltimore, Sept 2009.

- CO 265. Characterization of starch in pig digesta. J Hasjim, RA Cave, MJ Gidley, RG Gilbert. AACC International conference, Baltimore, Sept 2009
- CO 266. Diffusion and rheology characteristics of arabinoxylan solutions and implications for digestion. KJ Shelat, A Aufort, TM Nicholson, K Wong, RG Gilbert. AACC International conference, Baltimore, Sept 2009
- CO 267. Resistant starch: The evolution of starch molecule size during in-vitro digestion. T Witt, MJ Gidley, RG Gilbert. AACC International conference, Baltimore, Sept 2009
- CO 268. Effect of Particle Size of Barley and Sorghum on the Kinetics of In Vitro Starch Digestion by Porcine  $\alpha$ -Amylase. GJS Al-Rabadi, RG Gilbert, MJ Gidley, Australian Pig Science Association Conference, Cairns, Nov 2009
- CO 269. Biosynthesis-structure-property relations for starch: a highly branched polymer. AC Wu, J Hasjim, RA Cave, T Witt, MJ Gidley, ID Godwin, RG Gilbert. 11<sup>th</sup> Pacific Polymer Conference, Cairns, Dec 2009.
- CO 270. Theory of biosynthesis-structure relations for starch. AC Wu, RG Gilbert. 11<sup>th</sup> Pacific Polymer Conference, Cairns, Dec 2009.
- CO 271. Particle size effects on satiety and digestibility in food and feed. MK Zalifah, GJS Al-Rabadi, PA Sopade, DR Greenway, NA Caffin, BR D'Arcy, RG Gilbert, MJ Gidley. Nutrition Society of Australia Annual Scientific Meeting, Newcastle, Dec 2009.
- CO 272. Estimation of Seasonal Direct-Use Value of Cheung Ek Peri-Urban Lake, Phnom Penh, Cambodia. S Sar, C Chervier, P Lim, RG Gilbert. 1<sup>st</sup> International Conference on Environmental and Rural Development, Phnomh Penh, Cambodia, March 2010.
- CO 273. Understanding in vivo digestion of starch in the small intestine. J Hasjim, G Cesbron-Lavau, MJ Gidley, RG Gilbert, IFT Annual Meeting, Chicago, July 2010.
- CO 274. Developing water resistant starch polymers. P.J.Halley, C.Chaleat, R.Truss, M.Gidley, A.Shrestha, R.G.Gilbert, W-C Liu, A.Roberts, N.McCaffery. PPS, Banff, Canada, July 2010
- CO 275. Starch: biosynthesis-structure-property relations of the hyperbranched polymer that is a major factor in nutritional disease. RG Gilbert Australian Biophysical Chemistry Workshop, Adelaide, Apr 2010 (invited)
- CO 276. Understanding mechanisms in complex systems. RG Gilbert. Aust. Academy of Science 'Science at the Shine Dome' (invited lecture as Craig Medallist), Canberra May 2010.
- CO 277. Barley mixed linkage  $\beta$ -glucan : Diffusion and Rheology characteristics, and implications for digestion. KJ Shelat, TM Nicholson, MJ Gidley, RG Gilbert. Int. Hydrocolloid Conf., Shanghai, June 2010
- CO 278. Developing novel water resistant starch polymers. P.J.Halley, C.Chaleat, R.Truss, M.Gidley, A.K.Shrestha, R.G.Gilbert, W-C Liu, A.Roberts, N.McCaffrey. PPS 19, Banff, Canada, July 2010
- CO 279. Viscosity and diffusion characteristics of arabinoxylan & beta-glucan: Implications for nutrition. K Shelat, F Vilaplana, T Nicholson, KH Wong, M Gidley, R Gilbert. Nutrition Soc. of Aus., Melbourne Dec 2010

- CO 280. Understanding In Vivo Digestion of Starches Using Pigs as Animal Models. J Hasjim, G Cesbron Lavau, MJ Gidley, RG Gilbert. 60th Aust. Cereal Chem. Conf, Melbourne, Sept 2010
- CO 281. Quantitative Relationships Between Particle Size and Amylase Digestibility for Starch Granules and, RG and Robert G. Gilbert. 60th Aust. Cereal Chem. Conf, Melbourne, Sept 2010
- CO 282. Extraction and characterization of starch from pig digesta to understand the in vivo digestion of starch. J Hasjim, MJ Gidley, RG Gilbert. AACC International Annual Conference, Savannah, Georgia. Oct 2010
- CO 283. Developing cereals with higher resistant starch: Goals and constraints. AC Wu, RG Gilbert. AACC International Annual Conference, Savannah, Georgia. Oct 2010
- CO 284. Two-dimensional structural distributions for starch based on size and branching: method development and implications for biosynthesis. F Vilaplana, RG Gilbert. AACC International Annual Conference, Savannah, Georgia. Oct 2010
- CO 285. A new technique to extract and dissolve starch from cereal grains for accurate structural analysis. J Hasjim, Z Syahariza, E Li, YS Tan, S Chu, RG Gilbert. AACC International Annual Conference, Savannah, Georgia. Oct 2010
- CO 286. Starch structure-property relations for digestion of cooked rice. S. Zainul Abidin, J Hasjim, RG Gilbert. AACC International Annual Conference, Savannah, Georgia. Oct 2010
- CO 287. Gibberellin-biosynthesis inhibitor treatment on sorghum plants does not affect the structural properties of the starch. E Li, J Hasjim, S Dhital, ID Godwin, RG Gilbert. IFT Annual Meeting, New Orleans, LA, USA, June 2011.
- CO 288. Effects of cryogenic and hammer milling of rice grains on starch structural properties. TTB Tran, KJ Shelat, E Li, RG Gilbert, J Hasjim. IFT Annual Meeting, New Orleans, LA, USA, June 2011.
- CO 289. *In vivo* starch digestion in small intestine. J Hasjim, G Cesbron Lavau, MJ Gidley, RG Gilbert. NSA Annual Scientific Meeting, Perth, WA, Australia, November/December 2010.
- CO 290. Polysaccharide characterization for better health: new insights into glycogen and diabetes. MA Sullivan, D Tang, F Vilaplana, CZ Li, Ling Zheng, RG Gilbert. International Symposium on Separation and Characterization of Natural and Synthetic Macromolecules, Amsterdam, Jan 2011 (Invited Keynote).
- CO 291. Size distributions of complex branched polysaccharides. F Vilaplana, MA Sullivan, K Shelat, M Gidley, RG Gilbert. International Symposium on Separation and Characterization of Natural and Synthetic Macromolecules, Amsterdam, Jan 2011
- CO 292. Considerations for an accurate characterisation of starch molecular structure. D Tang, J Hasjim, F Vilaplana, RG Gilbert. International Symposium on Separation and Characterization of Natural and Synthetic Macromolecules, Amsterdam, Jan 2011
- CO 293. Structural correlations for arabinoxylans and beta-glucans and their implications for nutrition as revealed by multiple-detection SEC. F Vilaplana, K Shelat, M Gidley, RG Gilbert. International Symposium on Separation and Characterization of Natural and Synthetic Macromolecules, Amsterdam, Jan 2011

- CO 294. Developing plants with better nutritional properties – genetic constraints. AC Wu, RG Gilbert. Australian Food Science Summer School, Brisbane 2011
- CO 295. Effects of grinding of rice grains on three different levels of starch structure. J Hasjim, RG Gilbert and others. Australian Food Science Summer School, Brisbane 2011
- CO 296. Glycogen molecular structure and diabetes. MA Sullivan, Li, C Li, F Vilaplana, L Zheng, D Stapleton, A Gray-Weale, S Bowen, RG Gilbert. Australian Food Science Summer School, Brisbane 2011
- CO 297. Rice consumption behaviour of Cambodian people in five different agro-climatic zones. S Sar, RG Gilbert, G Marks. Australian Food Science Summer School, Brisbane 2011
- CO 298. The effects of trinexapac-ethyl treatment on the physicochemical properties of sorghum starch. E Li, J Hasjim, S Dhital, ID Godwin, RG Gilbert. Australian Food Science Summer School, Brisbane 2011
- CO 299. Structural characterization of complex branched polymers: problems, solutions and gains. MA Sullivan, F Vilaplana, D Tang, L Zheng, RG Gilbert. 32<sup>nd</sup> Australasian Polymer Symp., Coffs Harbour, Feb 2011.
- CO 300. Molecular weight distributions of glucose polymers: how the tricks of synthetic polymer science reveal genetic constraints in starch biosynthesis. AC Wu, RG Gilbert. 32<sup>nd</sup> Australasian Polymer Symp., Coffs Harbour, Feb 2011.
- CO 301. Octenyl succinated starches with narrow distributions and low molecular weight averages as model food emulsifiers. M Sweedman, M Tizzotti, RG Gilbert. 32<sup>nd</sup> Australasian Polymer Symp., Coffs Harbour, Feb 2011.
- CO 302. Accelerated phosphorus release rates from polymer-modified particulate fertilisers. C Warrender, G Warrender, B Smith, C McKenzie, RG Gilbert. 32<sup>nd</sup> Australasian Polymer Symp., Coffs Harbour, Feb 2011.
- CO 303. Glycogen exposed: comparing the structural features of diabetic and non-diabetic glycogen. MA Sullivan, F Vilaplana, Ling Zheng, S Bowen, A Gray-Weale, DI Stapleton, RG Gilbert. 32<sup>nd</sup> Australasian Polymer Symp., Coffs Harbour, Feb 2011.
- CO 304. Development of a novel and reliable procedure for the <sup>1</sup>H NMR structural and chemical characterization of starch and hydrophobic starch derivatives. M Tizzotti, M Sweedman, RG Gilbert. 32<sup>nd</sup> Australasian Polymer Symp., Coffs Harbour, Feb 2011.
- CO 305. Using size and molecular weight distributions of starch to understand biosynthesis and to improve functional properties. AC Wu, J Hasjim, F Vilaplana, RG Gilbert. Starch Convention, Detmold, Germany, April 2011 (invited).
- CO 306. Understanding the genetics-structure-property relations of starch from mutant plants. AC Wu, RG Gilbert. Starch Convention, Detmold, Germany, April 2011
- CO 307. Designing starch molecular structure for better biopolymeric materials. AC Wu, M Sullivan, F Vilaplana, J Hasjim, RG Gilbert, BIOPOL 2011 (Strasbourg, Aug 2011). Invited speaker.
- CO 308. Biosynthesis – Structure – Property Relations for Branched Polysaccharides as Revealed by Two-Dimensional Macromolecular Size/Branch Chain-Length Distributions. F Vilaplana, MA Sullivan, J Hasjim, RG Gilbert. European Polymer Fed. Conference, Granada (Spain), 26-6/1-7 2011.

- CO 309. Macromolecular Structural Distributions of High-Amylose Starches based on Size and Branching: Implications for Nutrition. F Vilaplana, D Meng, J Hasjim, RG Gilbert. Institute of Food Technologists Annual Conference. New Orleans June 2011.
- CO 310. Designing starch for better nutritional properties. AC Wu, RG Gilbert. Institute of Food Technologists Annual Conference. New Orleans June 2011.
- CO 311. Effects of cryogenic and hammer milling of rice grains on starch structural properties. TTB Tran, KJ Shelat, E Li, RG Gilbert, J Hasjim. Institute of Food Technologists Annual Conference. New Orleans June 2011.
- CO 312. Gibberellin-biosynthesis inhibitor treatment on sorghum plants does not affect the structural properties of the starch. E Li, J Hasjim, S Dhital, ID Godwin, RG Gilbert. Institute of Food Technologists Annual Conference. New Orleans June 2011
- CO 313. Characterizing cereal starch: genetic limitations and opportunities for designer plants. RG Gilbert, 61<sup>st</sup> Australian Cereal Chemistry Conference, 2011 (Invited).
- CO 314. Multi-dimensional size distributions and biosynthesis-structure-property relations for starch digestibility. F Vilaplana, S Zainul, J Hasjim, RG Gilbert. Starch Round Table, Palm Springs California Oct 2011 (invited)
- CO 315. Constraints and work-arounds on the genetics of starches for beneficial colonic health. AC Wu, J Hasjim, ZA Syahariza, S Sar, RG Gilbert, Invited Science Cafe Symposium talk. AACC International Conference, Palm Springs, California, Oct 2011.
- CO 316. Designing starch for better nutrition. AC Wu, RG Gilbert. AACC International Conference, Palm Springs, California, Oct 2011.
- CO 317. Viscoelastic characteristics of pig digesta are influenced by wheat arabinoxylan. KJ Shelat, TM Nicholson, MJ Gidley, RG Gilbert. AACC International Conference, Palm Springs, California, Oct 2011.
- CO 318. Correlation between molecular and intragranular structural parameters in waxy starch. T Witt, J Douth, E. Gilbert, RG Gilbert. AACC International Conference, Palm Springs, California, Oct 2011.
- CO 319. Effects of high growing temperature on starch structure in sorghum grains. E. Li, J Hasjim, V Singh, M Tizzotti, ID Godwin, RG Gilbert. AACC International Conference, Palm Springs, California, Oct 2011.
- CO 320. "Glucose polymers". DuPont Sustainability Workshop, Geneva, April 2012 (invited).
- CO 321. "Advanced Polysaccharide Characterization". 6<sup>th</sup> International Symposium on the Separation and Characterization of Natural and Synthetic Macromolecules. Dresden Feb 2013 (Invited Keynote)