

**VIRGIL PERCEC: PLENARY AND INVITED LECTURES, UNREFERRED PUBLICATIONS**  
**April 23, 2018**

1. "Polymerization of Acetylenic Derivatives. XXIII. On the Cellulose Derivatives Reactions with Acetylene Polymers" by **V. Percec**, International Symposium on Cellulose Chemistry and Technology, Jassy, Romania, 1971.
2. "On the Polymerization of Acetylenic Derivatives. XIX. Synthesis of Poly(1-ethynynaphthalene) and Its Electro-Physical Properties" by **V. Percec**, IUPAC International Symposium on Macromolecules, Helsinki, 1972.
3. "Polymerization of Acetylenic Derivatives. XXV. Synthesis and Properties of Isomeric Poly(2-ethynynaphthalene)" by **V. Percec**, 4th Symposium on Polymers, Varna, Bulgaria, October 4-6, 1973. *Preprints*, **1**, 466 (1973).
4. "Polymerization of Acetylenic Derivatives. XXVII. Synthesis and Properties of Isomeric Poly-N-Ethynylcarbazole" by **V. Percec**, IUPAC International Symposium on Macromolecules, Madrid, Spain, 1974 *Preprints*, I-5-13 (1974).
5. "TCNQ Anion Radical Like Salts of Poly(vinyl- and ethynyl pyridines)" by **V. Percec**, IUPAC International Symposium on Macromolecules, Madrid, Spain, 1974.
6. "Isomers of Polyarylacetylenes" by **V. Percec**, IUPAC International Symposium on Macromolecules, Jerusalem, Israel, 1975. *Abstract*, **I.1**, 71 (1975).
7. "Synthesis and Properties of Polyarylacetylene Isomers" by **V. Percec**, 1st Microsymposium on Macromolecules, Jassy, Romania, 1976.
8. "Isomeric Copolymers of Acetylenes" by **V. Percec**, 1st Romania-US Seminar on Polymer Science, September 21-25, 1976, Jassy, Romania. *Abstracts*, 69 (1976).
9. "New Carbazole Containing Polymers and Copolymers" by **V. Percec**, IUPAC International Symposium on Macromolecular Chemistry, Tashkent, USSR, 1978. *Abstract of Short Communications*, **3**, 120 (1978).
10. "Polyarylacetylenes: Structure and Properties" by **V. Percec**, IUPAC International Symposium on Macromolecular Chemistry, Tashkent, USSR, 1978. *Abstract of Main Lectures*, 71 (1978).
11. "Isomers of Poly(p-alkylphenylacetylenes)" by **V. Percec**, 1st National Congress of Chemistry, Bucharest, Romania, September 11-14, 1978. *Abstracts*, **Part II**, 14, 4A24 (1978).
12. "Synthesis and Polymerization of Aromatic Groups Containing Propiolic Acid Esters" by **V. Percec**, 1st National Congress of Chemistry, Bucharest, Romania, September 11-14, 1978. *Abstracts*, **Part II**, 16, 4A28 (1978).
13. "Isomers of Polypentadeuterophenylacetylene" by **V. Percec**, 1st National Congress of Chemistry, Bucharest, Romania, September 11-14, 1978. *Abstracts*, **Part II**, 16, 4A23 (1978).
14. "New Carbazole-Containing Monomers and Polymers" by **V. Percec**, 1st National Congress of Chemistry, Bucharest, Romania, September 11-14, 1978. *Abstracts*, **Part II**, 16, 4A34 (1978).
15. "On the Polymerization of Acetylenic Derivatives. XXXVII. Cis-Trans Isomerization of Polyarylacetylenes through Their Cyclic Halonium Ions" by **V. Percec**, 1st National Congress of Chemistry, Bucharest, Romania, September 11-14, 1978. *Abstracts*, **Part II**, 15, 4A25 (1978).
16. "Carbazole and Fluorene-Containing Polymers" by **V. Percec**, IUPAC Makro-Mainz, 26th International Symposium on Macromolecules, Mainz, Germany, September 17-21, 1979. *Preprints*, **1**, 345 (1979).
17. "Cationic Grafting of Plasma Surface-Halogenated Polypropylene Fibers" by **V. Percec**, IUPAC Makro-Mainz, 26th International Symposium on Macromolecules, Mainz, Germany, September 17-21, 1979. *Preprints*, **1**, 448 (1979).
18. "Factors Affecting the Microstructure of Intramolecular Charge Transfer Complexes-Copolymers" by **V. Percec**, IUPAC Macro-Florence, Florence, Italy, September 7-12, 1980. *Preprints*, **2**, 138 (1980).
19. "Configuration of Some Phenylacetylene Copolymers" by **V. Percec**, IUPAC Macro-Florence, Florence, Italy, September 7-12, 1980. *Preprints*, **2**, 417 (1980).
20. "Synthesis and Configuration of Intramolecular Charge Transfer Complex Copolymers" by **V. Percec**, Makromolekulares Kolloquium, Festkolloquium Anllich des 100. Geburtstages von Hermann Staudinger, Freiburg, Germany, March 4-7, 1981. *Abstracts*, 39 (1981).

21. "Polyacetylenes Microstructure" by **V. Percec**, First Seminar Jassy-Freiburg on Polymer Chemistry, Freiburg, Germany, March, 1981.
22. "Block Copolymers of Substituted 2-Oxazolines" by **V. Percec**, First Seminar Jassy-Freiburg on Polymer Chemistry, Freiburg, Germany, March, 1981.
23. "Synthesis of Intramolecular Charge Transfer Complex Copolymers" by **V. Percec**, First Seminar Jassy-Freiburg on Polymer Chemistry, Freiburg, Germany, March, 1981.
24. "Electrical Properties of Some Macromolecular Charge Transfer Complexes" by **V. Percec**, First Seminar Jassy-Freiburg on Polymer Chemistry, Freiburg, Germany, March, 1981.
25. "Char Transfer Complexes in Macromolecular Chemistry" by **V. Percec**, H. Staudinger Celebration Session of Romanian Academy of Sciences, Bucharest, Romania, April, 1981.
26. "Block Copolymers of Substituted 2-Oxazolines" by C. I. Simionescu, **V. Percec** and I. Rabia, 27th IUPAC International Symposium on Macromolecules, Strasbourg, France, July 6-9, 1981. *Abstract of Communications*, **1**, 293 (1981).
27. "Cationic Grafting from Plasma Chlorinated Polystyrene-Divinyl-benzene (PS-DVB) Copolymer Surfaces" by C. I. Simionescu, F. Denes, V. Percec, M. Totolin and J. P. Kennedy, 27th IUPAC International Symposium on Macromolecules, Strasbourg, France, July 6-9, 1981. *Abstract of Communications*, **1**, 298 (1981).
28. "Synthesis and Properties of 2'-Ethylacryl-4,5,7-Trinitro-9-Fluorenon-2-Carboxylate Copolymers with N-(2-hydroxyethyl) Carbazoyl Acrylate and Methacrylate" by C. I. Simionescu, **V. Percec**, A. Natansohn and V. Barboiu, 27th IUPAC International Symposium on Macromolecules, Strasbourg, France, July 6-9, 1981. *Abstract of Communications*, **1**, 524 (1981).
29. "Thermal Reversible Networks through Intermacromolecular Charge Transfer Interactions" by **V. Percec**, Second National Congress of Chemistry, Bucharest, Romania, September 5-8, 1981. *Abstracts of Papers*, **1**, 44 (1981).
30. "Influence of Distance between the Main Chain and the Electron - Acceptor of Electron - Donor Groups on the Intramolecular Charge Transfer Interactions" by **V. Percec**, Second National Congress of Chemistry, Bucharest, Romania, September 5-8, 1981. *Abstracts of Papers*, **1**, 14 (1981).
31. "Intramolecular Charge Transfer Complexes" by **V. Percec**, Midland Molecular Institute, Midland, MI, November, 1981.
32. "Intramolecular Charge Transfer Complexes" by **V. Percec**, Institute of Polymer Science, University of Akron, Akron, OH, December, 1981.
33. "Synthesis of ABA Triblock Copolymers Containing Electron-Donor or Electro-Acceptor Pendant Groups in A Blocks" by **V. Percec**, ACS Meeting, Las Vegas, NV, March, 1982. *Polymer Preprints*, **23/1**, 301 (1982).
34. "Viscoelastic Properties of Poly-Donor-Poly Acceptor Blends and of Corresponding Copolymers" by H. A. Schneider, H. J. Cantow and V. Percec, ACS Meeting, Kansas City, KS, September, 1982. *Polymer Preprints*, **23/2**, 203 (1982).
35. "Intramolecular Charge Transfer Complexes" by **V. Percec**, Bell Laboratories, Murray Hill, NJ, January, 1982.
36. "Mechanisch-Dynamische Eigenschaften von Polymersystemen mit CT-Wechselwirkungen," Makromolekulares Kolloquium, Freiburg, Germany, March 4-6, 1982. *Preprints*, 79 (1982).
37. "Polyacetylenes Isomers" by **V. Percec**, BF Goodrich Company, Brecksville, OH, June, 1982.
38. "Viscoelastic Investigations of Donor-Acceptor Polymeric Systems" by **H. J. Cantow**, U. Massen, H. Northfleet-Neto, V. Percec and H. A. Schneider, IUPAC International Symposium on Macromolecules, Amherst, MA, July 12-16, 1982. *Preprints*, 847 (1982).
39. "Intermolecular Charge Transfer Complex Copolymers," IUPAC International Symposium on Macromolecules, Amherst, July, 1982. *Preprints*, 891 (1982).
40. "Functional Polymers by Phase Transfer Catalysis" by **V. Percec**, Loctite Company, Cleveland, OH, December, 1982.

41. "Sequential Copolymers by Phase Transfer Catalysis" by **V. Percec**, University of Freiburg, Germany, March, 1983.
42. "Functional Polymers and Sequential Copolymers by PTC" by **V. Percec**, BASF, Germany, March, 1983.
43. "Microstructure of Polyphenylacetylene" by **V. Percec**, ACS Meeting, Seattle, WA, March, 1983. *Polymer Preprints*, **24/1**, 239 (1983).
44. "Sequential Copolymers and Functional Polymers by Phase Transfer Catalysis" by **V. Percec**, BF Goodrich Company, Brecksville, OH, July, 1983.
45. "New Developments in the Chemistry of Aromatic Polyether Sulfones and Aromatic Polyethers" by **V. Percec**, Sohio, Warrensville Research Center, Warrensville, OH, July, 1983.
46. "Microstructure of Polyphenylacetylene and Other Acetylenic Polymers" by **V. Percec**, Invited Main Lecture, Symposium on Order in Polymeric Materials, GTE Laboratories Incorporated, Waltham, MA, August 25-26, 1983.
47. "Some New Sequential Copolymers by Cationic Ring Opening Polymerization" by **V. Percec**, Invited Lecture, 6th IUPAC International Symposium on Cationic Polymerization and Related Processes, Ghent, Belgium, August 30 - September 2, 1983. *Abstracts*, 198 (1983).
48. "Phase Transfer Catalysts in Polymer Chemistry" by **V. Percec**, Waseda University, Tokyo, Japan, October 20, 1983.
49. "Functional Polymers by PTC" by **V. Percec**, Tokyo University, Tokyo, Japan, October 21, 1983.
50. "Reactive Oligomers by PTC" by **V. Percec**, Kyoto University, Kyoto, Japan, October 24, 1983.
51. "Reactive Oligomers" by **V. Percec**, Loctite, Cleveland, OH, February 15, 1984.
52. "Chain Ended Functional Polymers and Sequential Copolymers by Phase Transfer Catalyses" by **V. Percec**, B. C. Auman and H. Nava, Invited Main Lecture, Makromolekulares Kolloquium, Freiburg, Germany, March 1-3, 1984. *Abstracts*, 28 (1984).
53. "Functional Polymers and Segmented Copolymers by PTC" by **V. Percec**, University of Freiburg, Freiburg, Germany, March 7, 1984.
54. "Thermally Reactive Oligomers" by **V. Percec**, B. F. Goodrich, Brecksville, OH, March 15, 1984.
55. "Aromatic Polyether Sulfones with Terminal or Pendant Styrene Groups: A New Class of Thermally Reactive Oligomers" by **V. Percec** and B. C. Auman, ACS Meeting, St. Louis, MO, April 8-13, 1984. *Polymer Preprints*, **25/1**, 122 (1984).
56. "Phase Transfer Catalyses in Polymer Chemistry" by **V. Percec**, Standard Oil of Ohio, Cleveland, OH, April 18, 1984.
57. "Terminally Functionalized Polymers and Sequential Copolymers by Phase Transfer Catalysis" by **V. Percec**, Main Lecture, 18th Middle Atlantic ACS Meeting, "Polymer Synthesis and Reactivity Symposium," Rutgers University, NJ, May 22-25, 1984.
58. "Functional Polymers" by **V. Percec**, Institute C. Sadron, Strasbourg, France, June 28, 1984.
59. "LC Polyethers" by **V. Percec**, University of Marburg, Marburg, Germany, July 9, 1984.
60. "Liquid Crystalline Polyethers" by **V. Percec**, BASF, Ludwigshaffen, July 10, 1984.
61. "Functional Polymers and Segmented Copolymers by PTC" by **V. Percec**, Technische University of München, Germany, July 18, 1984.
62. "Liquid Crystalline Polyethers" by **V. Percec**, Bayer Corporation, Central Research, Krefeld, Germany, July 19, 1984.
63. "Functional Polymers" by **V. Percec**, Standard Oil of Ohio, Cleveland, OH, August 22, 1984.
64. "Free Radical Initiated Polymerization" by **V. Percec**, ACS Meeting, Philadelphia, PA, August 26-31, 1984. *Polymer Preprints*, **25/1**, 1 (1984).

65. "Telechelics and Macromonomers of a New Class of Liquid Crystalline Polymers: Polyethers of Mesogenic Bisphenols," by **V. Percec**, T. D. Shaffer and H. Nava, ACS Meeting, Philadelphia, PA, August 26-31, 1984. *Polymer Preprints*, **25/1**, 45 (1984).
66. "A New Series of Comb-Like Polymers: Poly(N-Alkyl-3-Hydroxymethyl carbazolyl methacrylate)s, and their Interchain D-A Complexes with Poly( $\beta$ -Hydroxyethyl-3,5-Dinitrobenzoyl Methacrylate)" by J. M. Rodriguez-Parada and **V. Percec**, ACS Meeting, Philadelphia, PA, August 26-31, 1984. *Polymer Preprints*, **25/1**, 83 (1984).
67. "Functional Polymers Containing Pendant or Terminal 2-(p-Phenyloxy)-2-Oxazoline Groups" by V. Percec, H. Nava and J. M. Rodriguez-Parada, ACS Meeting, Philadelphia, PA, August 26-31, 1984. *Polymer Preprints*, **25/1**, 120 (1984).
68. "Functional Polymers" by **V. Percec**, B. F. Goodrich, Brecksville, OH, September 12, 1984.
69. "PTC in Polymer Chemistry" by **V. Percec**, Arco, September 19, 1984.
70. "PTC in Polymer Chemistry" by **V. Percec**, DuPont de Nemours, Wilmington, DE, October 16, 1984.
71. "Thermotropic Liquid Crystalline Polyethers and Sequential Copolymers Containing LC Polyether Segments" by **V. Percec** and T. D. Shaffer, Makromolekulares Kolloquium, Freiburg, Germany, February 28-March 2, 1985. *Abstracts*, 58 (1985).
72. "Functional Polymers and Block Copolymers Containing Polydimethylsiloxane" by **B. C. Auman** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 85 (1985).
73. "Miscible Polymer Blends by EDA Interactions" by **C. Pugh** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 85 (1985).
74. "Interchain EDA Complexes. A Model to Study Interpolymeric Interactions" by **J. M. Rodriguez-Parada** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 86 (1985).
75. "Group Transfer Polymerization of Some Unusual Acrylates and Methacrylates" by **C. Pugh** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 86 (1985).
76. "Synthesis of Telechelic Poly(2,6-Dimethyl-1,4-Phenylene Oxide)" by **H. Nava** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 86 (1985).
77. "Synthesis, Polymerization and Copolymerization of Vinylbenzyl Ether Macromonomers of Poly(2,6-Dimethyl-1,4-Phenyleneoxide)" by **J. C. Cantlay**, H. Nava, T. D. Shaffer and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 86 (1985).
78. "Are Acetylenic Polymers Polyacetylenes? Polyphenylacetylene" by **V. Percec**, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 87 (1985).
79. "Chain Ended Functional Polymers and Sequential Copolymers by Phase Transfer Catalysis" by **V. Percec**, Invited Main Lecture, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 87 (1985).
80. "Radical Copolymerization of Donor-Acceptor Monomer Pairs" by **V. Percec**, Invited Main Lecture, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 94 (1985).
81. "Some New Trends in the Synthesis of Side Chain Thermotropic Liquid Crystalline Polymers" by **J. M. Rodriguez-Parada** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 96 (1985).
82. "Sequential Copolymers Containing Liquid Crystalline Polyether Segments" by **T. D. Shaffer** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 96 (1985).
83. "Polyethers and Polythioethers of Mesogenic Bisphenols and Bisthiophenols" by **T. D. Shaffer** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 97 (1985).
84. "Copolyethers and Copolythioethers of Mesogenic Bisphenols and Bisthiophenols" by **T. D. Shaffer** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 97 (1985).
85. "A Novel Approach to the Synthesis of Vinylidene Fluoride-Trifluoroethylene Copolymers" by **B. Hahn** and V. Percec, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 97 (1985).

86. "Are Acetylenic Polymers Polyacetylenes? Poly(Propargyl Chloride)" by **V. Percec**, ACS Central Regional Meeting, Akron, OH, June 5-7, 1985. *Abstracts*, 98 (1985).
87. "Thermotropic Liquid Crystalline Poly(thio)ethers and Sequential Copolymers Containing LC Polyether Segments" by **V. Percec** and T. D. Shaffer, 30th IUPAC Meeting on Macromolecules, The Hague, Netherlands, August 18-23, 1985. *Abstracts*, 520 (1985).
88. "Interchain EDA Complexes of Mesomorphic and Nonmesomorphic Polymers" by **V. Percec** and J. M. Rodriguez-Parada, 30th IUPAC Meeting on Macromolecules, The Hague, Netherlands, August 18-23, 1985. *Abstracts*, 521 (1985).
89. "Thermotropic Polythioethers and Copolythioethers Based on 4,4'-Dithiobiphenyl" by T. D. Shaffer and V. Percec, ACS Meeting, Chicago, IL, September 8-13, 1985. *Polymer Preprints*, **26/2**, 232 (1985).
90. "New Developments in Polymer Synthesis by PTC" by **V. Percec**, Invited Main Lecture, International Symposium on Advances in Phase Transfer Catalysts, ACS Meeting, Chicago, IL, September 8-13, 1985. *Div. Petr. Chem. Preprints*, **30/3**, 40 (1985).
91. "Interpolymeric EDA Complexes: A Model for LCST?" J. M. Rodriguez-Parada and V. Percec, ACS Meeting, Chicago, IL, September 8-13, 1985. *Polymer Preprints*, **26/2**, 259 (1985).
92. "The Influence of Sequence Distribution on the Mesomorphic Properties of Thermotropic Copolyethers Containing 4,4'-Dihydroxybiphenyl" T. D. Shaffer, M. Jamaludin and V. Percec, ACS Meeting, Chicago, IL, September 8-13, 1985. *Polymer Preprints*, **26/2**, 281 (1985).
93. "Alternating Block and Segmented Copolymers Containing Liquid Crystalline Polyether Segments" T. D. Shaffer and V. Percec, ACS Meeting, Chicago, IL, September 8-13, 1985. *Polymer Preprints*, **26/2**, 289 (1985).
94. "Group Transfer Polymerization of Some Unusual Acrylates and Methacrylates" C. Pugh and V. Percec, ACS Meeting, Chicago, IL, September 8-13, 1985. *Polymer Preprints*, **26/2**, 303 (1985).
95. "Reactive Oligomers and Sequential Copolymers by PTC" by **V. Percec**, General Corporation, Akron, OH, January 7, 1986.
96. "Liquid Crystalline Polyethers" by **V. Percec**, Invited Main Lecture, ACS Meeting, Local Section, Pittsburgh, PA, January 20, 1986.
97. "Thermally Reactive Oligomers of Aromatic Polyether Sulfone Containing Polydimethylsiloxane Segments" by B. C. Auman and V. Percec, ACS Meeting, New York, NY, April 13-18, 1986. *Polymer Preprints*, **27/1**, 320 (1986).
98. "Side-Chain Liquid Crystalline Poly(Prophenyl Ether)s and Poly(Vinyl Ether)s" J. M. Rodriguez-Parada and V. Percec, ACS Meeting, New York, NY, April 13-18, 1986. *Polymer Preprints*, **27/1**, 360 (1986).
99. "Synthesis and Characterization of Telechelic Poly(2,6-Dimethyl-1,4-Phenylene Oxide)" H. Nava and V. Percec, ACS Meeting, New York, NY, April 13-18, 1986. *Polymer Preprints*, **27/1**, 362 (1986).
100. "Synthesis of Vinylidene Fluoride-Trifluoroethylene Copolymers" B. Hahn and V. Percec, ACS Meeting, New York, NY, April 13-18, 1986. *Polymer Preprints*, **27/1**, 364 (1986).
101. "Graft Copolymers Containing Thermotropic Side-Chain Liquid Crystalline Backbones" C. Pugh and V. Percec, ACS Meeting, New York, NY, April 13-18, 1986. *Polymer Preprints*, **27/1**, 366 (1986).
102. "Thermotropic Polyethers Based on 4,4'-Dihydroxy- $\alpha$ -Methylstilbene and Oligo(oxyethylene)s" T. D. Shaffer and V. Percec, ACS Meeting, New York, NY, April 13-18, 1986. *Polymer Preprints*, **27/1**, 369 (1986).
103. "Liquid Crystalline Polymers" by **V. Percec**, General Motors, Detroit, MI, May 12, 1986.
104. "PTC in Polymer Chemistry," DuPont de Nemours, Wilmington, DE, May 21, 1986.
105. "Aromatic Polyethers" by **V. Percec**, Union Carbide, Bound Brook, NJ, July 31, 1986.
106. "Virtual LC Polyethers" by **V. Percec**, Invited Main Lecture, The Gordon Research Conference on Polymers, Colby-Sawyer College, New London, NH, July 1-4, 1986.

107. "The Effect of the Polymer Backbone on the Thermotropic Behavior of Side-Chain Liquid Crystalline Polymers" by C. Pugh and V. Percec, ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 36 (1986).
108. "Synthesis of ABA Triblock Copolymers Containing Poly(2,6-Dimethyl-1,4-Phenylene Oxide) as A Blocks: A Novel Synthetic Approach" by J. M. Tingerthal, H. Nava and V. Percec, ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 179 (1986).
109. "Transformation of a Monotropic Mesophase into an Enantiotropic One by Increasing Molecular Weight of the Polymer and by Copolymerization" by H. Nava and V. Percec, ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 181 (1986).
110. "Interchain Electron Donor-Acceptor Complexes: Determination of Equilibrium Constant and Thermodynamic Parameters in the Solid State" by H. G. Schild, J. M. Rodriguez-Parada, **C. Pugh** and V. Percec, ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 183 (1986).
111. "Side-Chain Liquid Crystalline Polymethacrylates and Polyacrylates Containing 2,5 - Distributed -1,3-Dioxane Mesogens" by C. S. Hsu, J. M. Rodriguez-Parada and V. Percec ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 185 (1986).
112. "The Influence of Molecular Weight on the Thermotropic Properties of a Random Copolymer Based on 1,5-Dibromopentane, 1,7-Dibromoheptane, and 4,4'-Dihydroxy- $\alpha$ -methylstilbene" by H. Nava, H. Jonsson and V. Percec, ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 191 (1986).
113. "Synthesis of Novel Side-Chain Liquid Crystalline Polysiloxanes" by C. S. Hsu, J. M. Rodriguez-Parada and V. Percec, ACS Meeting, Anaheim, CA, September 7-12, 1986. *Polymer Preprints*, **27/2**, 193 (1986).
114. "Liquid Crystalline Polyethers" by **V. Percec**, University of Illinois, Urbana, IL, October 9, 1986.
115. "Liquid Crystalline Polyethers" by **V. Percec**, University of Michigan, Chemistry Department, Ann Arbor, MI, October 17, 1986.
116. "New Trends in Polymer Chemistry" by **V. Percec**, University of Chicago, Chemistry Department, Chicago, IL, December 4, 1986.
117. "Self-Assembly in Polymers" by **V. Percec**, University of Massachusetts, Department of Polymer Science, Amherst, MA, December 12, 1986.
118. "Liquid Crystalline Copolymers" by **V. Percec**, Invited Main Lecture, Makromolekulares Kolloquium, Freiburg, Germany, March 12-14 1987.
119. "Kinetically Controlled Interchain EDA Complexes" by **C. Pugh**, J. M. Rodriguez-Parada and V. Percec, Makromolekulares Kolloquium, Freiburg, Germany, March 12-14, 1987.
120. "Liquid Crystalline Polyethers" by **V. Percec**, Kent State University, Liquid Crystal Institute, Kent, OH, April 15, 1987.
121. "Telechelic Polyethers" by **V. Percec**, Borg Warner Chemical Co., Des Plaines, April 21, 1987.
122. "Liquid Crystalline Polymers" by **V. Percec**, Borg Warner Chemical Co., Des Plaines, April 22, 1987.
123. "New Trends in the Synthesis of LCPs" by **V. Percec**, Massachusetts Institute of Technology, Cambridge, MA, May 7, 1987.
124. "Liquid Crystalline Polyethers" by **V. Percec**, University of Lowell, MA, May 8, 1987.
125. "Phase Transfer Catalysts in Polymer Synthesis" by **V. Percec**, University of Akron, Akron, OH, May 12, 1987.
126. "Liquid Crystalline Polymers" by **V. Percec**, Case Western Reserve University, Cleveland, OH, May 13, 1987.
127. "News in PTC" by **V. Percec**, B. F. Goodrich, Akron, OH, June 24, 1987.
128. "Liquid Crystalline Polyethers" by **V. Percec**, Cornell University, Ithaca, NY, July 7, 1987.

129. "LCPs Based on Mesogens Exhibiting Constitutional Isomerism" by **V. Percec**, University of Connecticut, Storrs, CT, July 9, 1987.
130. "Liquid Crystalline Polyethers" by **V. Percec**, Invited Main Lecture, International Conference on Liquid Crystal Polymers, Bordeaux, France, July 20-24, 1987. *Abstracts*, 2 I 1 (1987).
131. "Effects of Thermal Treatment on the Temperature and Heat of Isotropization in a Nematic Polymer" by J. L. Feijoo, **G. Ungar**, A. J. Owen, A. Keller and V. Percec, International Conference on Liquid Crystal Polymers, Bordeaux, France, July 20-24, 1987.
132. "Thermo- and Lyotropic Behavior of a Class of Main Chain Polyethers" by **V. Percec**, International Conference on Liquid Crystal Polymers, Bordeaux, France, July 20-24, 1987. *Abstracts*, 4 P 3 (1987).
133. "Liquid Crystalline Polyethers Containing Mesogenic Units which Exhibit Conformational and Constitutional Isomerism" by **V. Percec**, University of Stuttgart, Germany, July 27, 1987.
134. "Aromatic Polyethers" by **V. Percec**, Hoechst, Frankfurt, Germany, July 28, 1987.
135. "Side Chain LCPs" by **V. Percec**, Rohm Co., Darmstadt, Germany, July 29, 1987.
136. "Aromatic Polymers" by **V. Percec**, BASF, Ludwigshafen, Germany, July 30, 1987.
137. "Liquid Crystalline Polymers by Cationic Polymerization" by **V. Percec**, Invited Main Lecture, 8th IUPAC International Symposium on Cationic Polymerization and Related Processes, Munich, Germany, August 10-14, 1987. *Abstracts*, 37 (1987).
138. "A Novel Approach to Thermoplastic Elastomers with Enhanced Temperature Resistance" B. C. Auman, **H. J. Cantow**, W. Jishan, V. Percec and H. A. Schneider, IUPAC International Symposium on Polymers for Advanced Technologies, Jerusalem, Israel, August 16-21, 1987. *Abstracts*, 340 (1987).
139. "Liquid Crystalline Copolymers" by **V. Percec**, Invited Main Lecture, International Symposium on Copolymerization, Sydney, Australia, August 23-27, 1987. *Abstracts*, 32 (1987).
140. "Is the Reactivity of Macromonomers Molecular Weight Dependent?" by **V. Percec** and K. Mühlbach, International Symposium on Copolymerization, Sydney, Australia, August 23-27, 1987. *Abstracts*, 13 (1987).
141. "Kinetically Controlled Interchain Electron Donor-Acceptor Complexes" V. Percec, J. M. Rodriguez-Parada, C. Pugh and H. G. Schild, ACS Meeting, New Orleans, LA, August 31 - September 4, 1987. *Polymer Preprints*, **28/2**, 127 (1987).
142. "Living Non-Conjugated Polyacetylenes" J. Kunzler and V. Percec, ACS Meeting, New Orleans, LA, August 31 - September 4, 1987. *Polymer Preprints*, **28/2**, 252 (1987).
143. "Synthesis of Poly(1,1'-Dinaphthyl Ether Phenyl Sulfone)s and Poly(1,1'-Dinaphthyl Ether Phenyl Ketone)s by Scholl Reaction" V. Percec and H. Nava, ACS Meeting, New Orleans, LA, August 31 - September 4, 1987. *Polymer Preprint*, **28/2**, 254 (1987).
144. "Is the Reactivity of Macromonomers Molecular Weight Dependent?" Klaus Mühlbach and V. Percec, ACS Meeting, New Orleans, LA, August 31 - September 4, 1987. *Polymer Preprints*, **28/2**, 419 (1987).
145. "Chiral Smectic Liquid Crystalline Polymers" by B. Hahn and V. Percec, 6th International Symposium on Liquid Crystals and Ordered Fluids, New Orleans, LA, August 31 - September 4, 1987. *Polymer Preprints*, **28/2**, 414 (1987).
146. "Liquid Crystalline Polymers Containing Mesogenic Units which Exhibit Constitutional and Conformational Isomerism" by **V. Percec**, Invited Main Lecture, USA-Germany Symposium on Polymers, Napa Valley, CA, September 7-11, 1987. *Abstracts*, 17 (1987).
147. "Is the Reactivity of Macromonomers Molecular Weight Dependent?" by **V. Percec** and K. Mühlbach, Poster, USA-Germany Symposium on Polymers, Napa Valley, CA, September 7-11, 1987.
148. "Phase Transfer Catalysis in Polymer Synthesis" by **V. Percec**, Interez Co., Louisville, KY, January 20, 1988.
149. "Liquid Crystalline Polymers" by **V. Percec**, Interez Co., Louisville, KY, January 21, 1988.

150. "Miscible Blends by EDA Interactions" by **V. Percec**, Goodyear, Akron, OH, February 16, 1988.
151. "Functional Polymers and Sequential Copolymers by PTC" by **V. Percec**, BASF, Wyandotte, MI, February 18, 1988.
152. "Constitutional and Conformational Isomerism in Liquid Crystalline Polymers" by **V. Percec**, Plenary Speaker, ACS Great Lakes Polymer Conference, Detroit, MI, February 18, 1988.
153. "Functional Polymers and Sequential Copolymers by PTC" by **V. Percec**, Exxon Company, Linden, NJ, February 22, 1988.
154. "Constitutional and Conformational Isomerism in Liquid Crystal Polymers" by **V. Percec**, Invited Main Lecture, 3rd Freiburg - Porto Alegre Colloquium on Macromolecules, Freiburg, Germany, February 29-March 1, 1988.
155. "Is the Reactivity of Macromonomers Molecular Weight Dependent?" by **K. Mühlbach** and V. Percec, Freiburg Makromolekulares Kolloquium, Freiburg, Germany, March 3-5, 1988.
156. "News in Polymerization Reactions" by **V. Percec**, Goodyear, Akron, OH, April 21, 1988.
157. "Polyether Ketones by Scholl Reaction" by **V. Percec**, Amoco Performance Products, Bound Brook, NJ, April 25, 1988.
158. "Phase Transfer Catalysis in Polymer Synthesis" by **V. Percec**, University of Akron, Akron, OH, May 11, 1988.
159. "Liquid Crystalline Polymers Based on Conformational Isomerism" by **V. Percec**, B. F. Goodrich, Brecksville, OH, May 23, 1988.
160. "Reactivity of Macromonomers" by **V. Percec**, DuPont de Nemours, Experimental Station, Wilmington, DE, May 25, 1988.
161. "Polyethers by Scholl Reaction" by **V. Percec**, DuPont de Nemours, Experimental Station, Wilmington, DE, May 26, 1988.
162. "Liquid Crystalline Polymers" by **V. Percec**, Bausch & Lomb Co., Rochester, NY, May 31, 1988.
163. "Synthesis of Linear and Cyclic Chiral Smectic Liquid Crystalline Polysiloxanes with 2,5-Disubstituted-1,3,2-Dioxaborinane Based Mesogens" V. Percec and B. Hahn, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 176 (1988).
164. "Functionalized Non-Conjugated Polyacetylenes" J. Kunzler and V. Percec, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 221 (1988).
165. "Composition and Molecular Weight Effects Upon Phase Transition of Side Chain Liquid Crystalline Copolysiloxanes" B. Hahn and V. Percec, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 223 (1988).
166. "Side-Chain Liquid Crystalline Polymers with Chiral 4-[2(s)-Methyl-1-butoxy]-4'-(Undecanyloxy)- $\alpha$ -methylstilbene Side Groups" by B. Hahn and V. Percec, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 225 (1988).
167. "Quasi-Rigid Liquid Crystalline Polyethers Based on Conformational Isomerism" by V. Percec and R. Yourd, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 227 (1988).
168. "Liquid Crystalline Polyethers Based on 1-(4-Hydroxyphenyl)-2-(2-Methyl-4-Hydroxyphenyl) Ethane and Flexible Spacers" by V. Percec and R. Yourd, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 229 (1988).
169. "Side-Chain Liquid Crystalline Copolymers of Monomer Pairs Containing Mesogenic Units Which Exhibit Constitutional Isomerism" by V. Percec, C. S. Hsu, D. Tomazos and J. M. Rodriguez-Parada, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 232 (1988).
170. "Side-Chain Liquid Crystalline Polymers Containing 4-Methoxy-4'-Hydroxy- $\alpha$ -Methylstilbene Based Mesogens" V. Percec and D. Tomazos, ACS National Meeting, Toronto, Canada, June 6-11, 1988. *Polymer Preprints*, **29/1**, 234 (1988).



171. "Liquid Crystalline Copolymers" by **V. Percec**, University of Bayreuth, Bayreuth, Germany, June 15, 1988.
172. "Poly(Ether Ketone)s by School Reaction" by **V. Percec**, Hoechst, Frankfurt, Germany, June 20, 1988.
173. "LCP: New Synthetic Trends" by **V. Percec**, Hoechst, Frankfurt, Germany, June 20, 1988.
174. "Aromatic Polyethers" by **V. Percec**, University of Freiburg, Freiburg, Germany, June 24, 1988.
175. "Liquid Crystal Copolymers" by **V. Percec**, University of Freiburg, Freiburg, Germany, June 27, 1988.
176. "Principles of Phase Transfer Catalysis" by **V. Percec**, University of Freiburg, Freiburg, Germany, June 28, 1988.
177. "Poly(ether sulfone)s and Poly(ether ketone)s: New Synthetic Trends" by **V. Percec**, BASF Ludwigshafen, Germany, June 30, 1988.
178. "Liquid Crystalline Copolymers" by **V. Percec**, University of Marburg, Marburg, Germany, July 1, 1988.
179. "Liquid Crystalline Copolymers" by **V. Percec**, Max Planck Institute of Polymer Research, Mainz, Germany, July 4, 1988.
180. "Biphasic Side-Chain LCPs Containing Chiral 2,5-Disubstituted-1,3,2-dioxaborinane Based Mesogens" by B. Hahn and V. Percec, 12th International Conference on Liquid Crystals, Freiburg, Germany, August 15-19, 1988. *Abstracts*, 182 (1988).
181. "New Trends in Synthetic Polymer Synthesis" by **V. Percec**, Mobay, Pittsburgh, PA, September 9, 1988.
182. "Living Polymerization of Acetylenes by Metathesis Catalysts" by J. Kunzler and V. Percec, ACS National Meeting, Los Angeles, CA, September 25-30, 1988. *Polymer Preprints*, **29/2**, 80 (1988).
183. "Mesomorphic Transitions in Main Chain Liquid Crystalline Polymers and Copolymers Containing Flexible Spacers Are Kinetically Controlled" by V. Percec and K. Asami, ACS National Meeting, Los Angeles, CA, September 25-30, 1988. *Polymer Preprints*, **29/2**, 290 (1988).
184. "Side-Chain Liquid Crystalline Polymers Containing 4-Hydroxy-4'-Methoxy- $\alpha$ -Methylstilbene Based Mesogens" by V. Percec and D. Tomazos, ACS National Meeting, Los Angeles, CA, September 25-30, 1988. *Polymer Preprints*, **29/2**, 292 (1988).
185. "Concentration and Solvent Effects on the 'Reactivity' of Macromonomers" by V. Percec and J. Wang, ACS National Meeting, Los Angeles, CA, September 25-30, 1988. *Polymer Preprints*, **29/2**, 294 (1988).
186. "Liquid Crystalline Polyethers Containing Dibenzo-18-Crown-6 Structural Units" by V. Percec and R. Rodenhouse, ACS National Meeting, Los Angeles, CA, September 25-30, 1988. *Polymer Preprints*, **29/2**, 296 (1988).
187. "Side-Chain LCPs: New Synthetic Methods" by **V. Percec**, ONR, Washington, DC, October 27, 1988.
188. "Molecular Engineering of Phase Transitions in Liquid Crystalline Polymers" by **V. Percec**, Goodyear Tire & Rubber Co., Akron, OH, December 6, 1988.
189. "LCP Based on Conformational Isomerism" by **V. Percec**, University of Bristol, Bristol, United Kingdom, January 25, 1989.
190. "Side Chain LCPs" by **V. Percec**, University of Bristol, United Kingdom, January 26, 1989.
191. "LCP Based on Conformational Isomerism" by **V. Percec**, Hoechst, Frankfurt, Germany, March 2, 1989.
192. "Liquid Crystal Polyethers Based on Conformational Isomerism," by **V. Percec** and R. Yourd, IVth European Winter Conference on LC, Schladming, Austria, March 5-10, 1989. *Abstracts*, 29 (1989).
193. "Liquid Crystal Polyethers Based on Conformational Isomerism," by **V. Percec** and R. Yourd, Freiburg Makromolekulares Kolloquium, Freiburg, Germany, March 9-11, 1989. *Abstracts*, 20 (1989).
194. "New LCPs" by **V. Percec**, University of Bayreuth, Bayreuth, Germany, March 13, 1989.

195. "Chain Ended Functional Aromatic Polyethers" by **V. Percec**, Allied Signal Engineered Materials Research Center, Des Plaines, IL, March 22, 1989.
196. "LCP Based on Conformational Isomerism" by **V. Percec**, Central Research and Development, Experimental Station, DuPont de Nemours, Wilmington, DE, March 30, 1989.
197. "Molecular Engineering of Liquid Crystal Copolymers" by **V. Percec**, Plenary Perkin Speaker, Royal Society of Chemistry Meeting, University of Hull, Hull, United Kingdom, April 4-7, 1989.
198. "Conformational and Constitutional Isomerism in Liquid Crystal Polymers," by **V. Percec**, Plenary Lecture, British Society of Liquid Crystals, University of Sheffield, Sheffield, United Kingdom, April 10-12, 1989.
199. "X-ray Studies of Mesomorphism in Polymers with a Semiflexible Mesogen" by J. L. Feijoo, **G. Ungar**, A. Keller, R. Yourd, and V. Percec, Poster, British Society of Liquid Crystals, University of Sheffield, Sheffield, United Kingdom, April 10-12, 1989.
200. "Non-Equilibrium States of Order in the Isotropic and Nematic States of Main Chain Polymers" by **J. L. Feijoo**, G. Ungar, A. Keller and V. Percec, Poster, British Society of Liquid Crystals, University of Sheffield, Sheffield, United Kingdom, April 10-12, 1989.
201. "LCP Based on Conformational Isomerism" by **V. Percec**, BP Research, London, United Kingdom, April 13, 1989.
202. "Side Chain LCPs" by **V. Percec**, GEC Research, London, United Kingdom, April 14, 1989.
203. "LCP Based on Conformational Isomerism" by **V. Percec**, Goodyear Tire and Rubber Co., Akron, OH, April 18, 1989.
204. "LC Polymers" by **V. Percec**, Pennsylvania State University, University Park, PA, April 27, 1989.
205. "Molecular Engineering of LCP" by **V. Percec**, University of Akron, Akron, OH, May 3, 1989.
206. "Side Chain LCPs" by **V. Percec**, Amoco Research and Development, Bound Brook, NJ, May 10, 1989.
207. "Aromatic Polyethers" by **V. Percec**, Amoco Research and Development, Bound Brook, NJ, May 10, 1989.
208. "LCPs New Synthetic Trends" by **V. Percec**, Case Western Reserve University, Cleveland, OH, May 11, 1989.
209. "LC Polymers" by **V. Percec**, National Starch Co., Bridgewater, NJ, May 24, 1989.
210. "Synthesis of LCPs Does Not Require Rigid Rod-Like Mesogenic Units" by **V. Percec**, Plenary Lecture, ACS Meeting, Cleveland, OH, May 31-June 2, 1989.
211. "Molecular Engineering of Side Chain LCPs" by **V. Percec**, Army Technology Laboratory, Watertown, MA, June 23, 1989.
212. "Highly Decoupled Side Chain LCPs" by **V. Percec**, Conference on LCPs, University of Massachusetts, Amherst, MA, June 24, 1989.
213. "LC Copolymers" by **V. Percec**, Invited Main Lecture, Gordon Research Conference on Polymers, Colby-Sawyer College, New London, NH, June 25-29, 1989.
214. "Virtual LCPs" by **V. Percec**, BASF Ludwigshafen, Germany, July 18, 1989.
215. "Virtual LCPs" by **V. Percec**, BP Research, Grangemouth, Scotland, July 26, 1989.
216. "Virtual LCPs" by **V. Percec**, Bayer, Leverkusen, Germany, August 3, 1989.
217. "News in the Synthesis of LCPs" by **V. Percec**, Mobay, Pittsburgh, August 16, 1989.
218. "LC Polyethers and Copolyethers Based on Conformational Isomerism" by V. Percec, R. Yourd and Y. Tsuda, ACS Meeting, Miami Beach, FL, September 11-15, 1989. *Polymer Preprints*, **30/2**, 487 (1989).
219. "LCPs Containing Constitutional Isomeric Mesogenic Side Groups" by V. Percec and D. Tomazos, ACS Meeting, Miami Beach, FL, September 11-15, 1989. *Polymer Preprints*, **30/2**, 507 (1989).

220. "Main Chain and Side Chain LCPs Containing Crown Ethers" by V. Percec and R. Rodenhouse, ACS Meeting, Miami Beach, FL, September 11-15, 1989. *Polymer Preprints*, **30/2**, 444 (1989).
221. "Side Chain LCPs Containing Mesogenic Units Based on Half Disk and Rod-Like Moieties" by V. Percec and J. Heck, ACS Meeting, Miami Beach, FL, September 11-15, 1989. *Polymer Preprints*, **30/2**, 450 (1989).
222. "Influence of Copolymer Composition of a Ternary Copolyether Based on a Single Mesogenic Unit and Three Dissimilar Flexible Spacers on Its Mesomorphic Phase Transitions" by V. Percec and Y. Tsuda, ACS Meeting, Miami Beach, FL, September 11-15, 1989. *Polymer Preprints*, **30/2**, 452 (1989).
223. "What are LCPs Providing Us With?" by **V. Percec**, Mobay, Pittsburgh, PA, October 12, 1989.
224. "Side Chain LCPs" by **V. Percec**, University of Rochester, Rochester, NY, October 25, 1989.
225. "Molecular Composites" by **V. Percec**, BP Research, Cleveland, OH, November 30, 1989.
226. "Synthesis of LCP Does Not Require Rigid Rod-Like Mesogens" by **V. Percec**, Hoechst-Celanese, NJ, December 4, 1989.
227. "Macromonomers and Telechelics of PPO" by **V. Percec**, BASF, Ludwigshaffen, Germany, February 26, 1990.
228. "Phase Transfer Cross-Coupling of Aryl Halides with Alkylborates Catalyzed by PdCl<sub>2</sub>(dppf)<sub>2</sub> and Base" by V. Percec and **E. Cramer**, Freiburg Makromolekulares Kolloquium, Freiburg, Germany, March 1-3, 1990. *Abstracts*, 9 (1990).
229. "New Developments in Polymer Synthesis" by **V. Percec**, PPG, Pittsburgh, PA, March 20, 1990.
230. "Living Polymerization of Mesogenic Vinyl Ethers" by **V. Percec**, Invited Lecture, British Society of Liquid Crystals Annual Conference, Bristol, United Kingdom, April 9-11, 1990.
231. "Smectic and Crystalline Phases in Main Chain Copolymers with a Semiflexible Mesogen" by J. L. Feijoo, G. Ungar, V. Percec and R. Yourd, Poster, British Society of Liquid Crystals Annual Conference, Bristol, United Kingdom, April 9-11, 1990.
232. "Structure of Liquid Crystal Phases of a Crown Ether Side Chain Polymer" by **G. Ungar**, and V. Percec, Poster, British Society of Liquid Crystals Annual Conference, Bristol, United Kingdom, April 9-11, 1990.
233. "Smectic and Crystalline Phases in Main Chain Copolymers with a Semiflexible Mesogen" by V. Percec, Poster, British Society of Liquid Crystals Annual Conference, Bristol, United Kingdom, April 9-11, 1990.
234. "New Polymerization Reactions" by **V. Percec**, BP, London, United Kingdom, April 12, 1990.
235. "Phase Transfer Pd(O) Catalyzed Polymerization by Cross-Coupling of Alkyl-Boron Compounds and Aromatic Halides Catalyzed by PdCl<sub>2</sub> (dppf) and Bases" by **E. Cramer** and V. Percec, ACS Meeting, Boston, MA April 22-26, 1990. *Polymer Preprints*, **31/1**, 516 (1990).
236. "Synthesis and Determination of the Virtual Mesophases of Polyethers Based on 1-(4-Hydroxyphenyl)-2-(2-Methyl-4-Hydroxyphenyl)ethane with  $\alpha,\beta$ -Dibromoalkanes Containing from Four to Twenty Methylene Units" by V. Percec and Y. Tsuda, ACS Meeting, Boston, MA, April 22-26, 1990. *Polymer Preprints*, **31/1**, 514 (1990).
237. "LCP Containing Crown Ethers by Living Cationic Cyclopolymerization of 1,2-Bis(2-Ethenyloxy)benzene with Mesogenic Vinyl Ethers" by R. Rodenhouse and **V. Percec**, ACS Meeting, Boston, MA, April 22-26, 1990. *Polymer Preprints*, **31/1**, 81 (1990).
238. "Pd(O) Phase Transfer Catalyzed Oligomerization by Cross-Coupling Reactions of Acetylenes with Aryl Halides or Aryl Triflates" by **C. Pugh** and V. Percec, ACS Meeting, Boston, MA, April 22-26, 1990. *Polymer Preprints*, **31/1**, 512 (1990).
239. "What is PTC Providing Polymer Chemistry With?" by **V. Percec**, Plenary Speaker, International Symposium on Phase Transfer Catalysis, ACS Meeting, Boston, MA, April 22-26, 1990.
240. "Virtual LCPs" by **V. Percec**, Invited Main Lecture, International Symposium Dedicated to O. Vogl, ACS Meeting, Boston, MA, April 22-26, 1990.

241. "Virtual LCP" by **V. Percec**, Rensselaer Polytechnic Institute, Chemistry Department, Troy, NY, April 30, 1990.
242. "Molecular Engineering of LCPs" by **V. Percec**, University of Akron, Akron, OH, May 2, 1990.
243. "New Trends in Polymer Synthesis" by **V. Percec**, Goodyear, Akron, OH, May 3, 1990.
244. "Virtual Liquid Crystal Polymers" by **V. Percec**, Akron Polymer Conference, Akron, OH, May 14-15, 1990.
245. "Crystalline Phases of a Polyether Based on MBPE and Flexible Spacers" by **V. Percec**, Akron Polymer Conference, OH, May 14-15, 1990.
246. "News in Chain Polymerization Reactions" by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, May 28, 1990.
247. "Structure Reactivity in Ionic Polymerizations" by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, May 28, 1990.
248. "Molecular Engineering of LCP" by **V. Percec**, Plenary Lecture, Symposium on Functional Organic Materials and Liquid Crystalline Polymers, Royal Institute of Technology, Stockholm, Sweden, May 30, 1990.
249. "News in Step Polymerization Reactions" by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, May 31, 1990.
250. "PTC in Polymer Chemistry" by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, June 4-6, 1990.
251. "Virtual Liquid Crystal Polymers" by **V. Percec**, Invited Main Lecture, Scandinavian Meeting on Polymer Science, Helsinki, Finland, June 4-6, 1990.
252. "Synthesis and Living Carbocationic Polymerization of Side Chain Liquid Crystalline Vinyl Ethers" by **H. Jonsson**, U. W. Gedde, P. E. Sundell, V. Percec and A. Hult, Scandinavian Meeting on Polymer Science, Helsinki, Finland, June 4-6, 1990.
253. "Liquid Crystalline Polyethers and Copolyethers Based on Conformational Isomerism" by **V. Percec**, Invited Main Lecture, 2nd AIM Conference on Advanced Topics in Polymer Science: Polycondensation and Related Reactions, Gargnano, Italy, June 10-15, 1990. *Abstracts*, 24 (1990).
254. "Polymer Backbone Effects in Side Chain LCPs" by **V. Percec**, Ecole Superiere de Physique et de Chimie Industrielle de Paris, France, June 19, 1990.
255. "LCP Based on Conformational Isomerism" by **V. Percec**, Invited Main Lecture, Gordon Research Conference on LCP, Colby-Sawyer College, New London, NH, July 2-6, 1990.
256. "Phase Behavior in One Thermotropic Polyether Involving Rod-like Mesogenic Groups Based on Conformational Isomerism" by **V. Percec**, Gordon Research Conference on LCP, Colby-Sawyer College, New London, NH, July 2-6, 1990.
257. "'Polymer Effect' in Side Chain Liquid Crystal Polymers" by **V. Percec**, Invited Main Lecture, The 13th International Conference on Liquid Crystals, University of British Columbia, Vancouver, Canada, July 22-27, 1990. *Abstracts*, I-75 (1990).
258. "Synthesis and Living Carbocationic Polymerization of Side Chain Liquid Crystalline Vinyl Ethers" by **H. Jonsson**, C. G. Cho, U. W. Gedde, A. Hult and V. Percec, The 13th International Conference on Liquid Crystals, University of British Columbia, Vancouver, Canada, July 22-27, 1990. *Abstracts*, I-176 (1990).
259. "Refractive Indices of a Methylstilbene Polymer Liquid Crystal" by **N. A. Vaz**, G. W. Smith, G. P. Montgomery, Jr., W. D. Marion, V. Percec and M. Lee, The 13th International Liquid Crystal Conference, University of British Columbia, Vancouver, Canada, July 22-27, 1990. *Abstracts*, II-375 (1990).
260. "Dynamic Light Scattering from a Side-Chain Liquid Crystal Polymer Dissolved in a Nematic Solvent" by D.-F. Gu, **A. M. Jamieson**, A. Saeed, G. deLisi, C. Rosenblatt, D. Tomazos and V. Percec, The 13th International Liquid Crystal Conference, University of British Columbia, Vancouver, Canada, July 22-27, 1990. *Abstracts*, IV-383 (1990).
261. "New Trends in Polymerization Reactions" by **V. Percec**, Goodyear, Akron, OH, July 31, 1990.

262. "New Trends in Polymer Synthesis" by **V. Percec**, Mobay Corp., Pittsburgh, PA, August 3, 1990.
263. "Aromatic Polymers" by **V. Percec**, Bayer, Krefeld, Germany, August 8, 1990.
264. "Virtual LCPs" by **V. Percec**, Twente University, Enschede, Holland, August 9, 1990.
265. "Mechanism of Aromatic Nucleophilic Substitution" by **V. Percec**, Hoechst, Frankfurt, Germany, August 16, 1990.
266. "Polymer Science in the Last Decade of the 20th Century" by **V. Percec**, Mobay Corp., Pittsburgh, PA, September 5, 1990.
267. "Molecular Engineering of LCPs" by **V. Percec**, Xerox Research Center, Missisauga, Canada, September 21, 1990.
268. "Influence of Constitutional Isomerism of Mesogenic Units Based on Combination of Rigid Rod-like and Flexible Moieties" by **A. D. S. Gomes** and **V. Percec**, Macromolecular Colloquium, Puerto Allegre, Brazil, October 14-18, 1990.
269. "Study of Main Chain LCPs Based on Conformational Isomerism" by **V. Percec**, SPSJ 39th Symposium on Macromolecules, Nagoya, Japan, October 17-19, 1990.
270. "Molecular Engineering of Liquid Crystal Polymers" by **V. Percec**, Invited Main Lecture, US-Japan Seminar on Polymer Synthesis, Tokyo, Japan, October 28-November 2, 1990. *Abstracts*, 67 (1990).
271. "Virtual LCPs" by **V. Percec**, Waseda University, Tokyo, Japan, November 2, 1990.
272. "Molecular Engineering of Side Chain LCPs" by **V. Percec**, NTT, Tokyo, Japan, November 5, 1990.
273. "What Do We Expect From LCPs?" by **V. Percec**, Toyota Central Research Laboratory, Nagoya, Japan, November 6, 1990.
274. "LCPs Based on Conformational Isomerism" by **V. Percec**, Mitsubishi Petrochemical Co., Yokkaichi-city, Japan, November 7, 1990.
275. "Synthesis of LCP Does Not Require Rigid Mesogens" by **V. Percec**, Unitika, Ltd., Kyoto, Japan, November 7, 1990.
276. "Functional LCPs" by **V. Percec**, Tokyo Institute of Technology, Tokyo, Japan, November 9, 1990.
277. "Molecular Engineering of Side Chain LCP" by **V. Percec**, Plenary Lecture, 15th Biennial ACS Polymer Symposium Advances in New Materials, Ft. Lauderdale, FL, November 17-21, 1990.
278. "New Polymers by Aromatic Nucleophilic Displacement" by **V. Percec**, Goodyear, Akron, OH, December 11, 1990.
279. "Molecular Engineering of Side-Chain LCPs by Living Polymerizations" by **V. Percec**, University of Freiburg, Freiburg, Germany, February 20, 1991.
280. "Molecular Engineering of LCPs by Living Polymerization" by **V. Percec**, Chiao Tung University, Hsinchu, Taiwan, March 20, 1991.
281. "Liquid Crystalline Polymers Bond on Conformational Isomerism" by **V. Percec**, Tsing Hua University, Hsinchu, Taiwan, March 20, 1991.
282. "Aromatic Polyethers: New Synthetic Trends" by **V. Percec**, Tsing Hua University, Hsinchu, Taiwan, March 20, 1991.
283. "Virtual Liquid Crystalline Polymers" by **V. Percec**, Tsing Hua University, Hsinchu, Taiwan, March 21, 1991.
284. "Liquid Crystalline Polymers" by **V. Percec**, Tsing Hua University, Hsinchu, Taiwan, March 22, 1991.
285. "Phase Transfer Catalysis in Polymer Chemistry" by **V. Percec**, Cheng Kong University, Tainan, Taiwan, March 22, 1991.

286. "New Thermotropic Columnar Phases in Non-Discotic Polymers" by **V. Percec**, Poster, The British Liquid Crystal Society Annual Conference, The University of Reading, Reading, United Kingdom, March 25-27, 1991.
287. "Time Dependent Effects in the Nematic-Isotropic Transition of Main Chain Mesogenic Polymers" by G. Ungar, J. L. Feijoo, A. Alvarez-Castello, A. Keller and V. Percec, Polymer Physics Conference to mark the retirement of A. Keller, Bristol, UK, April 3-5, 1991.
288. "Living Cationic Polymerization of  $\omega$ -[(4-Cyano-4'-biphenyl)oxy]alkyl Vinyl Ethers" by **V. Percec** and M. Lee, Symposium on Macromolecular Assemblies, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 212 (1991).
289. "Liquid Crystalline Polyethers and Octa-n-Alkyloxy Derivatives Containing CTTV Mesogens" by V. Percec, C. G. Cho, **C. Pugh** and D. Tomazos, Symposium on Macromolecular Assemblies, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 257 (1991).
290. "Synthesis and Determination of the "Virtual" Mesophases of the Polyethers Based on 1-(4-Hydroxy)-2-(2-Chloro-4-Hydroxy)ethane and Flexible Spacers Containing From Four to Twenty Methylene Units" by V. Percec and M. Zuber, Symposium on Macromolecular Assemblies, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 259 (1991).
291. "Mesomorphic Polyethers Based on the Semiflexible 1-(4-Hydroxy-4'-Biphenyl)-2-(4-Hydroxyphenyl)butane" by V. Percec and M. Kawasumi, Symposium on Macromolecular Assemblies, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 261 (1991).
292. "Liquid Crystalline Polyethers Based on Conformational Isomerism. 16. Hexagonal Columnar Phase ( $\Phi_H$ ) in a Non-Discotic Copolyether and the Novel 2-Dimensional to 3-Dimensional  $\Phi_H$ -SB Transition" by G. Ungar, J. L. Feijoo, V. Percec and R. Yourd, Symposium on Macromolecular Assemblies, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 282 (1991).
293. "Side Chain Liquid Crystal Polymers Containing Hemiphasmidic Mesogens" by V. Percec and J. Heck, Symposium on Macromolecular Assemblies, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 263 (1991).
294. "Cationic Bulk Polymerization of Vinyl Ethers in the Liquid Crystalline Phase" by **H. Jonsson**, V. Percec U. W. Gedde and A. Hult, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 320 (1991).
295. "Pd(0) and Ni(0) Catalyzed Polymerization Reactions" by V. Percec, C. Pugh, E. Cramer and R. Weiss, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 329 (1991).
296. "The  $S_NAr$  Versus  $S_{RN}1$  in the Synthesis of Aromatic Poly(ether ketone)s" by V. Percec, R. S. Clough, P. L. Rinaldi and V. E. Litman, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 353 (1991).
297. "Phase Transfer Catalyzed Anion-Radical Polymerization of 4-Bromo-2,6-Dimethyl-phenol" by V. Percec and J. H. Wang, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 355 (1991).
298. "Polymers Containing Tetramethylanthracene and Cyclotetrameratrylene Units be Electro-philic Cyclopolymerization Reactions" by V. Percec, C. Pugh, C. G. Cho and J. M. Tingerthal, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 359 (1991).
299. "Synthesis of Aromatic Polyethers by Cation-Radical Polymerization" by V. Percec and J. Wang, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 391 (1991).
300. "Reactivity of  $\omega$ -(Vinylbenzyl Ether) Macromonomer of Poly(2,6-Dimethyl-1,4-Phenylene Oxide)" by V. Percec and J. H. Wang, International Symposium on New Polymerization Reactions and Reaction Mechanisms, ACS Meeting, Atlanta, GA, April 14-19, 1991. *Polymer Preprints*, **32/1**, 563 (1991).

301. "Condensation Polymerizations" by **V. Percec**, Tutorial Lecture for Joint Symposia, New Polymerization Reactions and Reaction Mechanisms and Stereochemistry and Mechanism of Homogeneous Polymerization Reactions, ACS Meeting, Atlanta, GA, April 14-19, 1991.
302. "Liquid Crystalline Polymers by Living Cationic Polymerization" by **V. Percec**, University of Bayreuth, Bayreuth, Germany, May 16, 1991.
303. "Virtual Liquid Crystalline Polymers" by **V. Percec**, Max Plank Institute for Polymer Research, Mainz, Germany, July 31, 1991.
304. "Aromatic Poly(ether ketone)s" by **V. Percec**, Hoechst, Frankfurt, Germany, August 1, 1991.
305. "Molecular Recognition Directed Supramolecular Polymer Architectures" by **V. Percec** and J. Heck, ACS Meeting, New York, NY, August, 1991. *Polymer Preprints*, **32/3**, 698 (1991).
306. "Molecular Engineering of LCPs" by **V. Percec**, University of Lowell, Lowell, MA, September 12, 1991.
307. "Molecular Engineering of LCPs by Living Polymerization" by **V. Percec**, Ecole Superieure de Chimie Industrielle, Paris, France, September 18, 1991.
308. "Molecular Engineering of LCPs" by **V. Percec**, University of Bordeaux, France, September 26, 1991.
309. "What is Polymer Chemistry Going to Do in the Next Century?" by **V. Percec**, National Starch Co, Bridgewater, NJ, October 25, 1991.
310. "Supramolecular LCPs" by **V. Percec**, BP Research, Cleveland, OH, November 22, 1991.
311. "Synthesis of Linear, Branched and Cyclic Liquid Crystalline Polymers" by **V. Percec**, International IUPAC Symposium on New Polymers, Kyoto, Japan, November 30 - December 1, 1991.
312. "Synthesis of Soluble Polyphenylenes and Aromatic Polyethers by a Combination of Ni(O), Pd(O), and Cation Radical Reactions" by **V. Percec**, International IUPAC Symposium on New Polymers, Kyoto, Japan, November 30 - December 1, 1991.
313. "A Universal Emulsifier for Polyethylene" by **V. Percec**, BP Research, Cleveland, OH, December 9, 1991.
314. "Supramolecular LCPs" by **V. Percec**, ETH, Zürich, Switzerland, January 27, 1992.
315. "Supramolecular LCPs" by **V. Percec**, University of Stuttgart, Stuttgart, Germany, January 28, 1992.
316. "Supramolecular LCPs" by **V. Percec**, MPI, Mainz, Germany, January 29, 1992.
317. "Supramolecular LCPs" by **V. Percec**, BASF, Ludwigshafen, Germany, January 30, 1992.
318. "Supramolecular LCPs" by **V. Percec**, University of Freiburg, Freiburg, Germany, January 31, 1992.
319. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, DSM, Central Research, Maastricht, Holland, February 25, 1992.
320. "Introduction to Molecular, Macromolecular and Supramolecular LCs" by **V. Percec**, University of Utrecht, Holland, February 25, 1992.
321. "Molecular Engineering of LCPs by Living Cationic Polymerization" by **V. Percec**, University of Utrecht, Holland, February 25, 1992.
322. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, University of Utrecht, Holland, February 25, 1992.
323. "Macrocyclic and Dendrimeric LCPs" by **V. Percec**, University of Utrecht, Holland, February 25, 1992.
324. "Molecular, Macromolecular and Supramolecular LCs with Complex Architecture" by **V. Percec**, MIT, Cambridge, MA, March 10, 1992.
325. "D-NMR Study of Molecular Order in the Nematic Melt of a Semiflexible Polyether" by **V. Percec**, Am. Phys. Soc. Meeting, Indianapolis, IN, March 16-20, 1992. *Bull. Am. Phys. Soc.*, **37/1**, 369 (1992).

326. "Dielectric Relaxation of a Smectic Side-Chain Liquid Crystal Polymer in Different Orientation States" by V. Percec, Am. Phys. Soc. Meeting, Indianapolis, IN, March 16-20, 1992. *Bull. Am. Phys. Soc.*, **37/1**, 419 (1992).
327. "Polymerization Methods: From Molecular to Supramolecular Polymer Chemistry" by **V. Percec**, National Academy of Sciences Meeting, Washington, DC, March 27, 1992.
328. "Towards Tobacco Mosaic Virus-Like Supramolecular Synthetic Polymers" by **V. Percec**, J. Heck and G. Ungar, Invited Main Lecture, Symposium on Well Defined Polymers, ACS Meeting, San Francisco, CA, April 6-10, 1992. *Polymer Preprints*, **33/1**, 152 (1992).
329. "Molecular Design of Externally Regulated Self-Assembled Supramolecular Ionic Channels" by V. Percec and **J. Heck**, ACS Meeting, Symposium on Well Defined Polymers, San Francisco, CA, April 6-10, 1992. *Polymer Preprints*, **33/1**, 217 (1992).
330. "Molecular Recognition Directed Phase Transitions of Side Chain Liquid Crystalline Polymers Containing Crown Ethers" by V. Percec, G. Johansson and R. Rodenhouse, Symposium on Well Defined Polymers, ACS Meeting, San Francisco, CA, April 6-10, 1992. *Polymer Preprints*, **33/1**, 219 (1992).
331. "Synthesis and Characterization of a Thermotropic Liquid Crystalline Dendrimer" by V. Percec and M. Kawasumi, Symposium on Well Defined Polymers, ACS Meeting, San Francisco, CA, April 6-10, 1992. *Polymer Preprints*, **33/1**, 221 (1992).
332. "Synthesis and Characterization of Macrocyclic Liquid Crystalline Polyethers" by V. Percec and M. Kawasumi, Symposium on Well Defined Polymers, ACS Meeting, San Francisco, CA, April 6-10, 1992. *Polymer Preprints*, **33/1**, 223 (1992).
333. "Synthesis of Soluble Polyarylenes and Polyarylene Ethers by Increased Configurational Entropy of Their Backbone" by V. Percec, **J. Wang** and S. Okita, Symposium on Well Defined Polymers, ACS Meeting, San Francisco, CA, April 6-10, 1992. *Polymer Preprints*, **33/1**, 225 (1992).
334. "Supramolecular Polymers" by **V. Percec**, Plenary Speaker, Symposium on Advances in Polymer Chemistry, Du Pont Country Club, Wilmington, DE, April 24, 1992.
335. "Supramolecular LCPs" by **V. Percec**, Plenary Speaker, 24th Central Regional ACS Meeting, Cincinnati, OH, April 27-29, 1992.
336. "Molecular Engineering of Side Chain LCPs by Living Polymerization" by **V. Percec**, ONR Polymer Program Meeting, Isle of Palms, SC, April 29 - May 1, 1992.
337. "Liquid Crystalline Polymers: Problems and Trends" by **V. Percec**, Phasex Corp., Lawrence, MA, May 21, 1992.
338. "Supramolecular Liquid Crystal Polymers" by **V. Percec**, Invited Main Lecture, 14th IUPAC International Liquid Crystal Conference, Pisa, Italy, June 21-26, 1992. *Abstracts*, 832 (1992).
339. "Preparation of Ordered, Crosslinked and Thermally Stable Liquid Crystalline Poly(Vinyl Ether) Films" by **A. Hult**, H. Andersson, U. W. Gedde and V. Percec, 14th IUPAC International Liquid Crystal Conference, Pisa, Italy, June 21-26, 1992. *Abstracts*, 855 (1992).
340. "New Main-Chain and Side Chain Column-Forming Polymers and Oligomers" by **G. Ungar**, V. Percec, J. Heck and S. Nieder, 14th IUPAC International Liquid Crystal Conference, Pisa, Italy, June 21-26, 1992. *Abstracts*, 429 (1992).
341. "Characterization of liquid Crystalline Non-Linear Optical Model Compounds" by **M. Trollsas**, V. Percec and A. Hult, 14th IUPAC International Liquid Crystal Conference, Pisa, Italy, June 21-26, 1992. *Abstracts*, 853 (1992).
342. "Supramolecular LCPs" by **V. Percec**, Invited Main Lecture, Gordon Research Conference on Liquid Crystal Polymers, Colby Sawyer College, New London, NH, July 5-10, 1992.
343. "Towards Molecular Recognition Directed Self-Assembled Molecular Ionic Channels" Gordon Research Conference on Liquid Crystal Polymers, Colby Sawyer College, New London, NH, July 5-10, 1992.
344. "Self-Regulated Phase Transitions in Side-Chain Liquid Crystalline Polymers Containing Crown Ethers Via Molecular Recognition," Gordon Research Conference on Liquid Crystal Polymers," Colby Sawyer College, New London, NH, July 5-10, 1992.



345. "Dendrimeric Liquid Crystalline Polymers," Gordon Research Conference on Liquid Crystal Polymers, Colby Sawyer College, New London, NH, July 5-10, 1992.
346. "Macrocyclic LCPs," Gordon Research Conference on Liquid Crystal Polymers, Colby Sawyer College, New London, NH, July 5-10, 1992.
347. "Chiral Recognition in Side Chain LCPs," Gordon Research Conference on Liquid Crystal Polymers, Colby Sawyer College, New London, NH, July 5-10, 1992.
348. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, University of Bayreuth, Germany, July 22, 1992.
349. "Molecular Engineering of Side Chain LCPs by Living Polymerization" by **V. Percec**, Plenary Lecture, International Symposium: on 25th Anniversary of the Institute of Materials Science, National University, Mexico City, Mexico, August 17-21, 1992.
350. "Supramolecular Liquid Crystalline Polymers" by **V. Percec**, Plenary Lecture, International Symposium on 25th Anniversary of the Institute of Materials Science, National University, Mexico City, Mexico, August 17-21, 1992.
351. "Molecular Engineering of Liquid Crystalline Polymers" by **V. Percec**, Plenary Lecture, International Symposium: on 25th Anniversary of the Institute of Materials Science, National University, Mexico City, Mexico, August 17-21, 1992.
352. "Supramolecular LCPs" by **V. Percec**, University of Sheffield, United Kingdom, September 3, 1992.
353. "Supramolecular Liquid Crystal Polymers" by **V. Percec**, Invited Main Lecture, Macromolecules 1992 Third Euro-American Conference: Functional Polymers and Biopolymers, University of Kent, Canterbury, United Kingdom, September 7-11, 1992. *Abstracts*, 25 (1992).
354. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, Polytechnic University, Chemistry Department, New York, NY, September 16, 1992.
355. "Supramolecular Polymers" by **V. Percec**, PPG Industries, Pittsburgh, PA, September 18, 1992.
356. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, University of Pittsburgh, Chemistry Department, Pittsburgh, PA, October 8, 1992.
357. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, Dow Invited Speaker, University of Detroit, Chemistry Department, Detroit, MI, October 15, 1992.
358. "LCPs with Complex Architectures" by **V. Percec**, University of Bordeaux, France, October 26, 1992.
359. "Activated Bisarylhalides in the Synthesis of Poly(etherketone)s" by **V. Percec**, Du Pont, Central Research and Development, Wilmington, DE, November 20, 1992.
360. "Molecular, Macromolecular and Supramolecular LCs with Complex Architecture" by **V. Percec**, University of Mississippi, Hattiesburg, MS, February 3, 1993.
361. "Macromolecular and Supramolecular LCs with Complex Architecture" by **V. Percec**, Virginia Polytechnic Institute and State University, Chemistry Department, Blacksburg, VA, February 10, 1993.
362. "Towards Tobacco Mosaic Virus-Like Self-Assembled Supramolecular Architectures" by **V. Percec**, J. Heck and G. Johansson, Invited Main Lecture, International Symposium on Polymers with Complex Architecture and Supramolecular Polymers, ACS, Spring Meeting, Denver, CO, March 28-April 4, 1993. *Polymer Preprint*, **34/1**, 116 (1993).
363. "Synthesis and Characterization of Macrocyclic LC Oligopolyethers" by V. Percec and M. Kawasumi, International Symposium on Polymers with Complex Architecture and Supramolecular Polymers, ACS, Spring Meeting, Denver, CO, March 28-April 4, 1993. *Polymer Preprint*, **34/1**, 154 (1993).
364. "Synthesis and Characterization of Chiral Linear and Macrocyclic LC Polyethers" by V. Percec and M. Kawasumi, International Symposium on Polymers with Complex Architecture and Supramolecular Polymers, ACS, Spring Meeting, Denver, CO, March 28-April 4, 1993. *Polymer Preprint*, **34/1**, 156 (1993).

365. "Synthesis and Characterization of Thermotropic LC Dendrimers" by V. Percec and M. Kawasumi, International Symposium on Polymers with Complex Architecture and Supramolecular Polymers, ACS, Spring Meeting, Denver, CO, March 28-April 4, 1993. *Polymer Preprint*, **34/1**, 158 (1993).
366. "Absence of Chiral Recognition in Molecular and Macromolecular Pairs of Liquid Crystals of (2R,3S)- and (2S,3S)-2-Fluoro-3-methylpentyl-4'-(11-vinyloxy undecanyloxy)biphenyl-4-carboxylate Diastereomers" by V. Percec and H. Oda, International Symposium on Polymers with Complex Architecture and Supramolecular Polymers, ACS, Spring Meeting, Denver, CO, March 28-April 4, 1993. *Polymer Preprint*, **34/1**, 160 (1993).
367. Poster: Design of Molecular Architecture Enables Synthesis of Fully Aromatic Poly(ether ketone)s by Aromatic Nucleophilic Substitution of "Unreactive" Ketone Activated Bis(aryl chloride)s" by V. Percec, R. S. Clough, J. Fanjul and M. Grigoras, International Symposium on Polymers with Complex Architecture and Supramolecular Polymers, ACS, Spring Meeting, Denver, CO, March 28-April 4, 1993. *Polymer Preprint*, **34/1**, 162 (1993).
368. "Molecular Engineering of Side Chain LCPs by Living Cationic Polymerization Using Webster's Initiating System" by V. Percec, Invited Main Lecture, ACS, Division of Polymeric Materials, Science and Eng., Denver, CO, March 28-April 4, 1993. *Polym. Mat. Sci.: Eng.*, **68**, 60 (1993).
369. "Polymers with Columnar Hexagonal Phases" by V. Percec, British Society of Liquid Crystals, Manchester, United Kingdom, March 28-April 4, 1993.
370. "Ionically and H-Bonded Self-Assembled Liquid Crystals" by V. Percec, poster, The British Liquid Society Annual Conference, The University of Manchester, Manchester, United Kingdom, March 29-31, 1993.
371. "Cyclic Main Chain Oligoether Smectics" by V. Percec, poster, The British Liquid Society Annual Conference, The University of Manchester, Manchester, United Kingdom, March 29-31, 1993.
372. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by V. Percec, Cornell University, Chemistry Department, Ithaca, NY, May 10, 1993.
373. "Molecular Recognition Directed Self-Assembly of Supramolecular Liquid Crystalline Polymers" by V. Percec, Invited Main Speaker, International Workshop on Liquid Crystalline Polymers, Capri, Italy, June 1-4, 1993. *Abstracts*, 19 (1993).
374. "Molecular Engineering of Side Chain Liquid Crystalline Polymers by Living Polymerization" by V. Percec, Invited Main Speaker, European Polymer Federation Workshop: Molecular Engineering of Side-Chain Liquid Crystalline Polymers, Yverdon-les-Bains, Switzerland, June 9-11, 1993. *Abstracts*, 2 (1993).
375. "Synthesis of Novel Liquid Crystalline Side-Chain Polymers Exhibiting and SC\* Phase" by M. Trollsas, V. Percec and A. Hult, European Polymer Federation Workshop: Molecular Engineering of Side-Chain Liquid Crystalline Polymers, Yverdon-les-Bains, Switzerland, June 9-11, 1993. *Abstracts*, 3 (1993).
376. "Macrocyclic Liquid Crystals" by V. Percec, Max Planck Institute for Polymer Research, Mainz, Germany, July 15, 1993.
377. "Supramolecular LCPs" by V. Percec, Cavendish Laboratory, Cambridge University, Cambridge, United Kingdom, July 19, 1993.
378. "Reductive Dehalogenation versus Nucleophilic Substitution in the Synthesis of Aromatic Poly(ether ketone)s and Poly(ether sulfone)s: A Potential Competition Between SET and POLAR Pathways" by V. Percec and R. Clough, Invited Main Lecture, Symposium in Advanced Polyethers, ACS, Division of Polymer Material Science Engineering, Chicago, IL, August 22-26, 1993. *Polym. Mater. Sci. Eng.*, **69**, 246 (1993).
379. "Molecular Recognition Directed Self-Assembly of Supramolecular Liquid Crystals" by V. Percec, Invited Main Lecture, International Symposium on Macromolecular Engineering, Akron, OH, August 27-28, 1993.
380. "Molecular Recognition Directed Self-Assembly of Supramolecular Liquid Crystals" by V. Percec, J. Heck, G. Johansson, D. Tomazos, M. Kawasumi, P. Chu and G. Ungar, Invited Main Lecture, International Workshop on Liquid Crystalline Polymers, Seoul, Korea, August 30-September 2, 1993. *Abstracts*, 26 (1993).
381. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by V. Percec, Korea Advanced Institute for Science & Technology, Taejon, Korea, September 2, 1993.
382. "Molecular Engineering of Side-Chain Liquid Crystalline Polymers by Living Cationic Polymerization" by V. Percec, Korea Advanced Institute for Science & Technology, Taejon, Korea, September 3, 1993.

383. "Synthesis and Liquid Crystallinity of Cyclic Polyethers Containing Mesogenic Units in Their Main Chains" by **V. Percec**, The 19th National Meeting of Liquid Crystals, Tokyo University, Tokyo, Japan, September 20-22, 1993.
384. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by **V. Percec**, Chemistry Department, Carnegie Mellon University, Pittsburgh, PA, October 21, 1993.
385. "Molecular, Macromolecular, and Supramolecular Liquid Crystals" by **V. Percec**, ONR Polymer Program Symposium, Naval Research, Washington, DC, October 25-27, 1993.
386. "Molecular Recognition Directed Self-Assembly of Supramolecular Polymers" by **V. Percec**, 17th Annual Symposium on Current Contributions in Polymer Science and Engineering, University of Michigan, Ann Arbor, MI, October 28-29, 1993.
387. "Supramolecular Polymers" by **V. Percec**, Invited Main Speaker, PolyMex-93, International Symposium on Polymers, Cancun, Mexico, November 1-5, 1993.
388. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by **V. Percec**, 6th US-Japan Bilateral Seminar on Polymer Synthesis, "Macromolecular Design for Advanced Materials," Santa Rosa, CA, November 6-12, 1993. *Abstracts*, 31 (1993).
389. "Synthesis and Characterization of Noncrystallizable Main Chain Liquid Crystalline Polyethers" by **V. Percec**, The 5th National Meeting of Polymer Processing Engineering, Nagoya, Japan, November 8-9, 1993.
390. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by **V. Percec**, Firestone Lecturer, Frontiers in Chemistry, Case Western Reserve University, Cleveland, OH, November 18, 1993.
391. "New Concepts in Fluoropolymers" by **V. Percec**, E. I. DuPont de Nemours, Experimental Station, Wilmington, DE, December 16, 1993.
392. "Gel-Template Leaching and Other Concepts to Functional Microporous Membranes" by **H. Gankema**, M. Möller, G. Johansson and V. Percec, Makromolekulares Kolloquium, Freiburg, Germany, February 24-26, 1994. *Abstracts*, 22 (1994).
393. "Molecular Directed Self-Assembly of Supramolecular Architectures" by **V. Percec**, University of Munchen, Munchen, Germany, March 10, 1994.
394. "Towards TMV-Like Supramolecular Polymers" by **V. Percec**, University of Ulm, Ulm, Germany, March 11, 1994.
395. "Macrocyclic Liquid Crystals" by **V. Percec**, University of Freiburg, Freiburg, Germany, March 15, 1994.
396. "Are Macrocyclic LC Supramolecular Rods?" by **V. Percec**, University of Ulm, Ulm, Germany, March 16, 1994.
397. "Supramolecular Rods from Collapsed Macrocyclics" by **V. Percec**, Max Planck Institute for Polymer Research, Mainz, Germany, March 17, 1994.
398. "Main Chain Thermotropic PE Exhibiting Calamitic-Columnar and Calamitic-Nematic Phases" by V. Percec, poster, The British Liquid Crystal Society 9th Annual Conference, The University of Hull, Hull, United Kingdom, March 28-30, 1994.
399. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by **V. Percec**, Invited Lecture, Minisymposium on "Molecular Engineering and Supramolecular Chemistry," Division of Organic Chemistry, Danish Chemical Society, Copenhagen, Denmark, May 6, 1994.
400. "Molecular Recognition Directed Self-Assembly of Supramolecular Channel-like and Rod-like Architectures" by **V. Percec**, Invited Lecture, NATO Advanced Research Workshop on "Molecular Engineering for Advanced Materials," Hindsø, Denmark, May 7-11, 1994.
401. "Molecular Recognition Directed Self-Assembly of Tubular Liquid Crystalline and Crystalline Supramolecular Architectures Derived from Crown Ethers Containing Tapered Groups" by V. Percec and **G. Johansson**, Poster, NATO Advanced Research Workshop on "Molecular Engineering for Advanced Materials," Hindsø, Denmark, May 7-11, 1994.

402. "Self-Organizing Polymer Liquid Crystals" by **V. Percec**, Plenary Lecture, Symposium on "Molecular Organization in Thin Films," Centre for Molecular Materials, University of Sheffield, Sheffield, UK, May 16, 1994.
403. "The Supramolecular Tubular Structures of a Poly(methacrylate) with Tapered Side Groups Formed in its Aligned Hexagonal Phases" by **Y. K. Kwon**, J. Blackwell, S. Chvalun, A.-I. Schneider, V. Percec and J. A. Heck, ACS, Division of Polymer Chemistry, Graduate Research Polymer Conference, Penn State University, University Park, PA, June 12-15, 1994.
404. "Molecular Recognition Directed Self-Assembly of Supramolecular Architectures" by **V. Percec**, Invited Lecture, Gordon Research Conference on Polymers, Wolfeboro, July 3-8, 1994.
405. "Reductive Dehalogenation Versus Nucleophilic Substitution in the Synthesis of Aromatic Poly(ether Ketone)s and Poly(ether Sulfone)s: A Potential Competition Between SET and Polar Pathways" by **V. Percec** and R. S. Clough, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 135 (1994).
406. "Synthesis of Functional Symmetrical Biaryls from Phenols via Nickel-Catalyzed Coupling of Their Sulfonates" by J. Y. Bae, M. Zhao, **D. H. Hill** and V. Percec, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 138 (1994).
407. "Synthesis of Functional Regioregular and Regioirregular Substituted Poly(*p*-Phenylene)s from Hydroquinones" by **J. Y. Bae**, M. Zhao, D. H. Hill and V. Percec, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 139 (1994).
408. "Similarities and Differences Between the Phase Behavior of LC Polyethers Based on the Constitutional Isomeric 1-(4-Hydroxy-4'-Biphenyl)-2-(4-Hydroxyphenyl)butane and 1-(4-Hydroxyphenyl)-2-(4-Hydroxy-4'-Biphenyl)butane Mesogens" by V. Percec and **A. Asandei**, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 282 (1994).
409. "Molecular Order in the Nematic Melt of a Semiflexible Polyether by Deuteron NMR" by **D. Y. Yoon**, M. H. Sherwood, G. Sigaud, C. G. Wade, M. Kawasumi and V. Percec, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 289 (1994).
410. "Optical Studies of Supramolecular Tubular Structures with Tapered Side Groups in the Hexagonal Phase" J.-F. Li, V. Percec, C. Rosenblatt and M. Fisch, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 294 (1994).
411. "Inversion Wall Evolution in Magnetic Fields in a Thermotropic Liquid Crystalline Polymer" by M. J. O'rourke, **E. L. Thomas** and V. Percec, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 305 (1994).
412. "Structure and Phase Behavior of Thermotropic Main Chain Liquid Crystalline Polyethers" by Y. Yoon, A. Zhang, S. Z. D. Cheng, J. Cheng and V. Percec, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 312 (1994).
413. "Towards 'Willow-like' Thermotropic Liquid Crystalline Dendrimers" by V. Percec and **P. Chu**, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 332 (1994).
414. "Tobacco Mosaic Virus-like Self-Assembled Supramolecular Architectures" by V. Percec, **J. Heck**, G. Johansson and G. Ungar, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 347 (1994).
415. "The Supramolecular Tubular Structures of a Poly(methacrylate) with Tapered Side Groups Formed in its Aligned Hexagonal Phases" by J. Blackwell, Y. K. Kwon, S. Chvalun, A. I. Schneider, V. Percec and J. Heck, 35th IUPAC International Symposium on Macromolecules, "MacroAkron '94," The University of Akron, Akron, OH, July 11-15, 1994. *Abstracts*, 348 (1994).
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483. "What Can Polymer Chemists Learn from Viruses?," by **V. Percec**, Lecture in Dept. of Poly. Sci. and Eng., University of Massachusetts, Amherst, MA, October 13, 1995.
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520. "What Happens When We Jacket Polymer Backbones with Dendritic Coats?" by **V. Percec**, Institute C. Sadron, Strasbourg, France, November 12, 1996.
521. "Dendrimers and Macrocyclics as Building Blocks for New Supramolecular and Macromolecular Liquid Crystals" by **V. Percec**, University Paris-Sud, Orsay, France, November 14, 1996.
522. "Arenesulfonyl Chlorides. Universal Initiators for Metal Catalyzed Living Radical Polymerization" by **V. Percec**, University Pierre et Marie Curie, Paris, France, November 15, 1996.
523. "Controlled Architecture and Chain Conformation via Dendritic Building Blocks" by **V. Percec**, University of Ulm, Germany, November 18, 1996.
524. "Cylindrical and Spherical Supermolecules from Polymer Backbones Jacketed with Dendritic Coats" by **V. Percec**, Max Planck Institute for Polymer Research, Mainz, Germany, November 18, 1996.
525. "Sulfonyls and Sulfonates as Initiators and Leaving Groups in New Metal Catalyzed Living Radical and Step Polymerizations" by **V. Percec**, Central Research and Development, Experimental Station, Du Pont, Wilmington, DE, November 25, 1996.
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528. "Controlling Soft Order in Molecular, Macromolecular and Supramolecular Systems via Dendritic Building Blocks" by **V. Percec**, Invited Lecture, Symposium Metastability and Critical Phenomenon in Phase Behavior of Polymers, MRS 1997 Spring Meeting, March 31-April 4, 1997, San Francisco. *Abstracts*, (Spring 1997), 368.
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531. "Strategies for the Design of Novel Biomaterials by Learning from the Self-Assembly of Viruses" by **V. Percec**, Plenary Lecture, 29th International Biomaterials Symposium and 23rd Annual Meeting of the Society for Biomaterials, April 30-May 4, 1997, New Orleans.
532. "Molecular Design Against Intuition by Using Nature as a Model" by **V. Percec**, Case Western Reserve University, May 14, 1997.
533. "Design of 3 - Dimensional Polymers: Reaching the Limits of Conventional Organic and Polymer Chemistry", by **Virgil Percec**, Aggarwal Lectures in Polymer Science, Department of Chemistry, Cornell University, May 19, 1997.
534. "Nature as Model for the Design of New Supramolecular and Macromolecular Functional Systems" by **V. Percec**, Aggarwal Lectures in Polymer Science, Cornell University, May 20, 1997.
535. "New Metal Catalyzed Living Radical and Step Polymerizations by Using Sulfonyls and Sulfonates as Initiators and Leaving Groups" by **V. Percec**, Aggarwal Lectures in Polymer Science, Cornell University, May 21, 1997.
536. "Controlling Shape with Dendritic Building Blocks" Invited Lecture by **V. Percec**, Army Research Lab, Aberdeen, MD, June 1, 1997.
537. "Molecular, Macromolecular and Supramolecular Liquid Crystals with Complex Architecture" by **V. Percec**, Invited Lecture, Gordon Conference of Liquid Crystals, Tilton School, NH, June 8-13, 1997.
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540. "Controlling the Shape of Polymer Chains by Living Cationic Ring-Opening Polymerization of Monodendritic Cyclic Imino-Ethers" by **V. Percec**, M. Holerca, G. Johansson, G. Ungar and D. J. P. Yearly, Invited Lecture, International Symposium on Ionic Polymerization, Paris, France, July 7-11, 1997. *Abstracts*, p. L-26.
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560. "Controlling Polymerization Mechanism, Chain Conformation and Polymer Shape via Self-Encapsulation and Jacketing with Dendritic Coats" by **V. Percec**, Invited Lecture, Makromolekulares Kolloquium, Freiburg, Germany, February 26-28, 1998, *Makromolekulares Kolloquium*, p. 85.
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579. "Supramolecular Membranes" by **V. Percec**, Invited Lecture, Office of Naval Research, Jacksonville, FL, May 31 - June 3, 1998.
580. "From Metal Catalysis to Self-Catalysis in Polymer Synthesis" by **V. Percec**, Invited Lecture, MRSEC & CUMIRP Spring Meeting, Amherst, MA, June 8 - 10, 1998.
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589. "Controlling Shape of Supramolecular Dendrimers via the Architecture of Dendritic Synthons" by **V. Percec**, University of Ulm, Ulm, Germany, July 31, 1998.

590. "Constructing a Polymer Science Made of Visualizable Chains with the Aid of Supramolecular Chemistry" by **V. Percec**, Technical University Munchen, Munchen, Germany, August 5, 1998.
591. "A Universal Method for the Preparation of Dendrimers and Hyperbranched Polymers from Conventional Commercial Monomers" by V. Percec and **B. Barboiu**, Dendrimer MURI Symposium, Natick, MA, Army Labs, August 21, 1998.
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593. "Functionalized Epoxies: From Adhesion to Decontamination" by V. Percec and **J. M. J. Frechet**, Dendrimer MURI Symposium, Natick, MA, Army Labs, August 21, 1998.
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596. "Supramolecular Systems" by **V. Percec**, Toyota Central Research and Development, Nagoya, Japan, September 5, 1998.
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601. "Rational Design with Dendritic Building Blocks" by **V. Percec**, Army Research Laboratory, Aberdeen Proving Ground, MD, September 23, 1998.
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605. "Construction of Giant Super- and Macromolecules with Controlled Shape and Functionality" by **V. Percec**, Invited Lecture, Symposium: Mesoscopic Materials. Preparation, Function and Applications. University of Ulm, Germany, October 7-9, 1998.
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620. "Self-Controlled – Metal Catalyzed LRP Initiated with Sulfonyl Halides" by **V. Percec**, Invited Lecture, International Workshop on Living Radical Polymerization, Paris, France, May 20-22, 1999.
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623. "Towards Combinatorial Libraries of Functional Dendrimers via a Combination of LRP and TERMINI" by **V. Percec**, MURI Symposium, Aberdeen, MD, June 10-11, 1999.
624. "Single Molecule Based Nano-Systems" by **V. Percec**, Invited Lecture, International Forum on Type-Structured Molecules, Kanagawa, Japan, June 29-July 1, 1999.
625. "Nature as a Model for the Rational Design of Novel Shape Persistent Architectural Motifs" by **V. Percec**, Invited Lecture, Gordon Research Conference on Polymers, Oxford, United Kingdom, July 4-8, 1999.
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632. "Viruses as Model for New Macromolecular Architecture" by **V. Percec**, Invited Lecture, Symposium Emerging Opportunities in Polymer Technologies, Cincinnati, OH, October 14-15, 1999.
633. "Block Polymer Architecture as a Determinant of Physical Properties" by **V. Percec**, Invited Lecture, 11th International Symposium on the Material Science and Chemistry of Contact Lenses, New Orleans, LA, November 10-12, 1999.
634. "Nature as a Model for the Rational Design of Complex Nano-Systems" by **V. Percec**, University of Delaware, DE, November 16, 1999.
635. "Materials Designed with Secondary Chemical Bonds: Self-Assembly and Self-Organization" by **V. Percec**, Nature as a Model for New Functional Nanostructures, Invited Lecture, Workshop, DuPont Country Club, Wilmington, DE, November 22, 1999.
636. "New Concepts in Radical Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 24, 1999.
637. "Radical Ring Opening Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 24, 1999.
638. "Polyaromatics by Ring-Opening Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 25, 1999.
639. "New Developments in Polymer Synthesis", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 25, 1999.
640. "Copolymerization as a Tool to Determine the Reactivity of Monomers and Growing Species", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 25, 1999.

641. "Complex Organic Synthesis by Living Radical Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 26, 1999.
642. "Dendritic Macromolecules by Living Radical Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 26, 1999.
643. "New Developments in the Synthesis of Dendritic Macromolecules", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 26, 1999.
644. "New Concepts in Cationic Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 27, 1999.
645. "New Developments in Anionic Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 27, 1999.
646. "New Concepts in Condensation Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 27, 1999.
647. "Organic Synthesis with the Aid of Polymers", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 29, 1999.
648. "Polymer Supported Reagents", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 29, 1999.
649. "Reactive Polymers by Cyclopolymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, November 29, 1999.
650. "Shrinkage versus Expansion in Volume During Polymerization Processes", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 2, 1999.
651. "New Developments in Polymer Synthesis by Metal Catalyzed Homo and Cross-Coupling Reactions", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 2, 1999.
652. "Metal Catalyzed Living Radical Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 2, 1999.
653. "Principles of Ring-Opening Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 3, 1999.
654. "Cationic Ring-Opening Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 3, 1999.
655. "Structure – Reactivity in Ring-Opening Polymerization", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 3, 1999.
656. "Dendritic Macromolecules", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 4, 1999.
657. "Hyperbranched Polymers", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 4, 1999.
658. "Polymer Chemistry in the 21<sup>st</sup> Century", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 6, 1999.
659. "Dendritic Liquid Crystals", by **V. Percec**, Royal Institute of Technology, Stockholm, Sweden, December 6, 1999.
660. "Complex Organic Synthesis via Living Radical Polymerization" by **V. Percec**, Invited Lecture, US-Japan Seminar on Polymer Synthesis, University of California, Berkeley, CA, December 12-15, 1999.
661. "Nature as a Model for the Construction of Nanosystems" by **V. Percec**, Chemistry Department, University of Toronto, Canada, January 7, 2000.
662. Supramolecular Membranes, by **V. Percec**, ONR, Washington DC, January 11, 2000.
663. "Nature as Model for the Design of Single Molecule Functional Nanosystems" by **V. Percec**, Invited Lecture, 50<sup>th</sup> Anniversary of the Makromolekulares Kolloquium, Freiburg, Germany, February 24-26, 2000 , Abstracts, p.1

664. "Nature as a Model for the Development of New Concepts in Polymer Science", by **V. Percec**, DuPont Marshal Lab., Philadelphia, March 7, 2000.
665. "Complex Organic Synthesis via a Combination of LRP and Termini", by **V. Percec**, Invited Lecture, ACS San Francisco, March 26-30, 2000, *Polymer Preprints* **41**(1), 2000.
666. "Nature as a Model for the Design of Functional Nanosystems", by **V. Percec**, University of California, Department of Chemistry, Los Angeles, April 6, 2000
667. "Nature as a Model for the Elaboration of New Concepts in Polymer Science", by **V. Percec**, LG Chem. , Research Park, Taejon, Korea, April 17, 2000.
668. "Nature as a Model for the Construction of a Polymer Science Made of Visualizable Chains", by **V. Percec**, Department of Chemistry, Seoul National University, Seoul Korea, April 19, 2000
669. "From Metal Catalysis to Autocatalysis", by **V. Percec**, Invited Lecture, International Symposium "From Metal Catalysis to Biocatalysis", Philadelphia, April 28, 2000.
670. "Nature as a Model for the Development of New Concepts in Polymer Science", by **V. Percec**, Invited Lecture, International Symposium of the Polymer Society of Sweden Dedicated to the 80<sup>th</sup> Birthday of Professor B. Ramby, Stockholm, Sweden, May 2-3, 2000.
671. "Detecting the Shape Change of Complex Macromolecules during Their Synthesis with the Aid of Kinetics. A New Lesson from Biology", by **V. Percec**, University of Ulm, Germany, June 2 2000.
672. "Nature as a Model for the Rational Design of Complex Nanosystems", by **V. Percec**, Invited Lecture, Discussion Meeting on Multi-Level Ordering by Competitive Short and Long Range Interactions in Macromolecular Systems, Weingarten, Germany, June 3-8, 2000.
673. "Persistent Motion of Monodendron Jacketed Linear Chains on Surface." by S.A. Prokhorova, B. Tartsch, S.S. Sheiko, M. Moeller, M. Holerca and **V. Percec**, P.50 Discussion Meeting on Multi-level Ordering by Competitive Short and Long Range Interaction in Macromolecular Systems, Weingarten, Germany, June 3-8, 2000.
674. "Single Molecules. From Science Fiction to Science." Invited Lecture, by **V. Percec**, Gordon Research Conference on Polymers (East), Connecticut College, New London, CT, June 10-15, 2000.
675. "Phase Behavior and Transitions in Polymers Comprising Amphiphilic Monomers." H. Duan, S.D. Hudson, P. Kewsuwan, V. Percec and M.N. Holerca, Gordon Research Conference on Polymers (East), Connecticut College, New London, CT, June 10-15, 2000.
676. "Nature as a Model for the Design of Complex Nanosystems." Invited Lecture, by **V. Percec**, European Polymer Federation Workshop on "Controlled Architectures and Supramolecularity of Polymers, Paris, France, June 19-20, 2000, Program and Abstracts L9.
677. "Nature as a Model for New Architectural Motives", by **V. Percec**, Eindhoven University, Eindhoven, The Netherlands, June 28, 2000.
678. "Nature as a Model for the Elaboration of New Concepts In Polymer Science." Plenary Lecture, by **V. Percec**, World Polymer Congress, IUPAC Macro 2000, 38th Macromolecular IUPAC Symposium, Warsaw, Poland, July 9th-14th, 2000; Book of Abstracts, Vol. 1, p. 19 (2000).
679. "Temperature Behavior of Columnar Self-Assemblies of Polymethacrylates and Their Macromonomers with Highly Tapered Side Groups." by S.N. Chvalun, M.A. Shcherbina, I.V. Bykova, J. Blackwell, Y.K. Kwon, J.D. Cho and V. Percec, world Polymer Congress, IUPAC Macro 2000, 38<sup>th</sup> Macromolecular IUPAC Symposium, Warsaw, Poland, July 9<sup>th</sup>-14<sup>th</sup>, 2000; Book of Abstracts, Vol 3, p.1100(2000).
680. "Single Molecule Based Electronically Active Elements." Plenary Lecture by **V. Percec**, International Conference on Science and technology of Synthetic Metals, ICSM 2000, Gastein, Austria, 15<sup>th</sup> to 21<sup>st</sup> of July 2000, Book of Abstracts, p.147(2000). Elsevier, New York.
681. "Supramolecular Photorefractive Materials." Invited Lecture by **V. Percec**, AFOSR Photorefractive Polymer Symposium, San Diego, CA, July 27-28, 2000.

682. "Nature as a Model for the Elaboration of New Concepts in Polymer Science." Invited Lecture by **V. Percec**, ACS Washington, D.C. August 20-24, 2000, *Polym. Mat. Sci. Eng.* **83**, 554(2000).
683. "Grafting from the Structural Defects of PVC." Invited Lecture by **V. Percec**, EPIC Symposium on PVC, Akron, OH, September 12-13, 2000.
684. "Metal catalyzed Polymerization of VC." Invited Lecture by **V. Percec**, EPIC Symposium on PVC, Akron, OH, September 12-13, 2000.
685. "Towards Combinatorial Libraries of Functional Dendrimers via a Combination of LRP and TERMINI." Lecture by B. Barboiu and **V. Percec**, Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
686. "Supramolecular Constructions with Dendritic Building Blocks." Lecture by **V. Percec**, Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
687. "Towards Homogeneous Catalysis in Crystal State?", Lecture by **V. Percec**, Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
688. "Principles of Shape and Size Control in Supramolecular Dendrimers." By M.N. Holerca and **V. Percec**, Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
689. "Encapsulation of Catalytic Sites into Dendritic Supermolecules and Lattices." by W.-D. Cho and **V. Percec**, , Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
690. "Multifunctional Cores and Branching Points for Dendritic Polymers by TERMINI." By B. Barboiu and **V. Percec**, Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
691. "Functional Dendrimers by LRP and TERMINI." By B. Barboiu and **V. Percec**, Annual MURI Symposium on Dendritic Materials Systems, September 20-21, 2000, U.S. ARL, Edgewood, MD.
692. "Nature as a Model and Monodendrons as Building Blocks for the Design of Single Molecule Based Nanosystems." Invited lecture by **V. Percec**, National Institute of Science and Technology, Gaithersburg, MD, October 11, 2000.
693. "Nature as a Model for the Design of Complex Nanosystems." Invited Lecture by **V. Percec**, Department of Chemistry, Drexel University, Philadelphia, PA, October 25, 2000.
694. "Complex Organic Synthesis by Living Radical Polymerization." Invited Lecture by **V. Percec**, LG Chem, Korea, October 30, 2000.
695. "Nature as a Model for the Elaboration of New Concepts in Chemical Sciences." Plenary Lecture by **V. Percec**, Symposium Dedicated to the 40<sup>th</sup> Anniversary of the National Hellenic Research Foundation, Institute of Organic and Pharmaceutical Chemistry, Athens, Greece, December 19, 2000.
696. "Nature as a Model for the Elaboration of New Concepts in Chemistry." Invited Lecture by **V. Percec**, Department of Chemistry, Tulane University, New Orleans, March 21, 2001.
697. "X-ray Reflectivity Study of Langmuir Films of Amphiphilic Monodendrons." By W.-J. Pao, P. A. Heiney, M. Stetzer, W.-D. Cho, V. Percec, Presented at the American Physical Society March Meeting 2001, Seattle, WA, March 12-16, *Bull. Am. Phys. Soc.* 46(1), V19-13, p. 959(2001).
698. "Molecular, Macromolecular and Supramolecular Liquid Crystals with Complex Architecture." Invited Lecture by **V. Percec**, European Liquid Crystal Conference, University of Halle, Germany, March 25-30, 2001.
699. "Complex Macromolecular Architecture via a Combination of Living Radical Polymerization and TERMINI." Keynote Lecture by **V. Percec**, "International Symposium Polymer '01" The New Polymers: Design, Development & Applications." April 9-11, 2001, University of Bath, UK, Abstract Book, p.165.
700. "Living Radical Graft Copolymerization Initiated from the Structural Defects of PVC." Invited Lecture by **V. Percec**, Edison Polymer Innovation Corporation, Akron, OH, April 10-11, 2001.
701. "Living Radical Polymerization of Vinyl Chloride." Invited Lecture by **V. Percec**, Edison, Polymer Innovation Corporation, Akron, OH, April 10-11, 2001.

702. "Complex Macromolecular Architecture with the Aid of Supramolecular Chemistry." Invited Lecture by **V. Percec**, 8<sup>th</sup> Dresden Polymer Discussion, Meissen, Germany, April 23-26, 2001.
703. "Nature as a Model for the Elaboration of New Concepts at the Interface between Organic, Supramolecular and Macromolecular Chemistry." Invited Lecture by **V. Percec**, Department of Chemistry, University of California, Irvine, CA, May 16, 2001.
704. "Nature as a Model for the Design of Nanosystems." Invited Lecture by **V. Percec**, IBM, Almaden Research Center, San Jose, CA, May 18, 2001.
705. "Nature as a Model for the Design of Nanostructured Liquid Crystals." Invited Lecture by **V. Percec**, International Symposium Nanostructured Liquid Crystals, Kent State University, Kent, OH, June 19-20, 2001.
706. "Phase Behavior and Transitions in Nanostructures Polymers." Poster by H. Duan, S.D. Hudson, M. Holerca and **V. Percec**, International Symposium Nanostructured Liquid Crystals, Kent State University, Kent, OH, June 19-20, 2001, Abstracts, p. 53.
707. "Liquid Crystalline Semiconducting Materials." Poster by I. Shiyankovskaya, K.D. Singer, **V. Percec**, M. Obata, Y. Miura, R.J. Zweig, L. Sukhomlinova and V. Gettwert, International Symposium Nanostructured Liquid Crystals, Kent State University, Kent, OH, June 19-20, 2001, Abstracts, p. 197.
708. "Supramolecular Simplicity via Structural Complexity." Invited lecture by **V. Percec**, Gordon Research Conference on polymers (East Coast), Colby Sawyer College, New London, NH, July 8-13, 2001.
709. "A New and Universal Strategy for the Design of Fast Photoconducting and Photorefractive Films and Fibers via Self-Assembly, Co-Assembly and Self-Organization." Invited Lecture by **V. Percec**, Air Force Office of Scientific Research, Chemistry & Life Sciences Directorate, Photorefractive Polymer Review, San Diego, CA, 27-28 July, 2001.
710. "Nanostructured Liquid Crystalline Photorefractive and Semiconducting Materials." Invited Lecture by K.D. Singer, I. Shiyankovskaya, **V. Percec**, M. Obata and Y. Miura, Air Force Office of Scientific Research, Chemistry & Life Sciences Directorate, Photorefractive Polymer Review, San Diego, CA, 27-28 July, 2001, Abstracts, p. 27.
711. "Expanding the 3-D Architectural Diversity of Supramolecular Dendrimers by Functionalization of their Periphery with Libraries of Minidendrons" Invited Lecture by **V. Percec**, ACS Chicago, August 26-30, 2001.
712. "New Polymers by Living Radical Graft Copolymerization Initiated from the Structural Defects of PVC and by Living Radical Polymerization of Vinyl Chloride." Invited Lecture by **V. Percec**, ACS Chicago, August 26-30, 2001.
713. "Nature as a Model for the Elaboration of New Concepts in Polymer Science." Invited Lecture by **V. Percec**, Iowa State University, Ames, Iowa August 30, 2001.
714. "New Concepts in NanoBioTechnology." Invited lecture by **V. Percec**, International Symposium: Naobiotech, Muenster, Germany, September 24-27, 2001.
715. "Supramolecular Chirality." Invited Lecture by **V. Percec**, 2<sup>nd</sup> International Symposium "Life Sciences and Materials...Nonbiological Molecules with Biological Functions", September 28-30, 2001, University of Pennsylvania, Philadelphia.
716. "Supramolecular Liquid Crystals" Invited lecture by **V. Percec**, International Symposium on Liquid Crystals to celebrate Anne Marie Levelut, Paris, France, October 4-6, 2001
717. "New Concepts in Supramolecular Dendrimer Chemistry" Key Note Lecture by **V. Percec**, The Second International Dendrimer Symposium, October 14-17, 2001, Tokyo, Japan. Preprints OP11, page 37.
718. "Living Radical Polymerization of Vinyl Chloride." Invited Lecture by **V. Percec**, EPIC Consortium on PVC, Akron, OH, October 17-18, 2001.
719. "Living Radical Graft Copolymerization Initiated from the Structural Defects of PVC." Invited Lecture by **V. Percec**, EPIC Consortium on PVC, Akron, OH, October 17-18, 2001.
720. "No-Dispersity Polymers by Self-Interrupted Living Radical Polymerizations" Invited Lecture by **V. Percec**, IUPAC International Symposium on Ionic Polymerizations." October 22-26, 2001, Crete, Greece.

721. "New Concepts in Supramolecular Electronic Materials." Invited Lecture by **V. Percec**, October 31st, 2001, LG Chem, Korea.
722. "Cell Membrane as a Model for the Design and Synthesis of Multifunctional Supramolecular Membranes." Invited Lecture by **V. Percec**, ARO Workshop on Membranes, Aberdeen, Maryland, November 15-16, 2001.
723. "Dendritic Building Blocks as Biological Mimics." Invited Lecture by **V. Percec**, Technical University of Muenich, Germany, December 17, 2001.
724. "Internal Order and Supramolecular Chirality in Supramolecular Dendrimers." Invited Lecture by **V. Percec**, University of Freiburg, Freiburg, Germany, December 18, 2001.
725. "Nature as a Model For the Elaboration of New Concepts at the Interface Between Organic, Supramolecular and Macromolecular Chemistry." Invited Lecture by **V. Percec**, Max-Planck Institute for Polymer Research, Mainz, Germany, December 19, 2001.
726. "Dendritic Building Blocks as Biological Mimics for the Creation of Order and Supramolecular Chirality." Invited lecture by **V. Percec**, University of Ulm, Ulm, Germany, December 20, 2001.
727. "Nanostructured Liquid Crystalline Semiconductor Materials." I. Shiyankovskaya, K. D. Singer, V. Percec, M. Obata, Y. Miura, L. R. J. Twieg, V. Gettewert, S. Gu, L. Sukhomlinova. *Proc. SPIE* (2001).
728. "Plastic and Liquid Crystalline Architectures from Dendritic Receptor Molecules." Poster by J.A.A.W. Elemans, M.J. Boerakker, S.J. Holder, A.E. Rowan, W.-D.Cho, V.Percec, R.J.M. Nolte, Polymer Days Symposium, Netherlands, February 25-26,2002.
729. "Nature as a Model for the Elaboration of New Concepts in Chemistry." Polymer Award Address Lecture by **V.Percec**, Polymer Days Symposium, Netherlands, February 25-26, 2002.
730. "Dendritic Building Blocks as Biological Mimics." Invited Lecturer Selected by Chemistry Students, by **V. Percec**, Department of Chemistry, Laval University, Quebec City, Canada, March 11, 2002.
731. "Phase behavior and Transitions in Nanostructured Polymers." by H. Duan, P. Kersuwan, S. Hudson and V. Percec, presented at the American Physical Society Meeting, March 18-22, 2002, Indianapolis, IN, *Bull. Am. Phys. Soc.*, **47(1)**, (B33 91) 211(2002).
732. "X-ray Scattering Studies of Fibers of Dendrimeric Molecules." By V.S.K. Balagurusamy, A. Dulcey, U. Edlung, V.Percec, A.A. Hainey, presented at the American Physical Society Meeting, March 18-22, 2002, Indianapolis, IN, *Bull. Am. Phys. Soc.*, **47(1)**, (Q26 10) 940(2002).
733. "Structural Studies of Novel Dendrimeric Liquid Crystals." By P.A. Heiney, W.J. Pao, G. Ungar, Y. Liu. V.S.K. balagurusamy, W.D.Cho, C. Mitchell, S. Uchida, V. Percec, presented at the American Physical Society Meeting, March 18-22, 2002, Indianapolis, IN, *Bull. Am. Phys. Soc.*, **47(1)**, (Q26 11) 940(2002).
734. "Grazing-Incidence Diffraction Study of Langmuir Films of Amphiphilic Monodendrons." By W.-J. Pao, F. Zhang, P.A. Heiney, W.-D., Cho, C. Mitchell, V.S.K. Balagurusamy, V.Percec, presented at the American Physical Society Meeting, March 18-22, 2002, Indianapolis, IN, *Bull. Am. Phys. Soc.*, **47(1)**, (U 3110) 1172(2002).
735. "Self-Assembling Dendrons as Biological Mimics for the Creation of Order and Chirality." Invited Lecture by **V. Percec**, Department of Chemistry, Columbia University, New York, April 4, 2002.
736. "Self-Assembling Dendrons as Biological Mimics." Invited lecture by **V. Percec**, Philadelphia Organic Chemists' Club, April 25, 2002.
737. "Self-Assembling Building Blocks as Biological Mimics. How and What For? Invited lecture by V. Percec, 11<sup>th</sup> Rolduc Polymer Meeting," Crossing Lengthscales and Disciplines: From Macromolecular Structures to Functional Polymer Systems." Rolduc, Netherlands, May 5-8, 2002.
738. "From Nanoscience to Nanotechnology." Invited Lecture by V. Percec, DSM, The Netherlands, May 7, 2002.
739. "Metal Catalyzed Living Radical Polymerization of Vinyl Chloride." Invited Lecture by V. Percec, EPIC Symposium, Akron-Cleveland, May 21-22, 2002.
740. "Non-Metal Catalyzed Living Radical Polymerization of Vinyl Chloride." Invited Lecture by V. Percec, EPIC Symposium, Akron-Cleveland, May 21-22, 2002.

741. "Nature as a Model For the Elaboration of New Concepts in Chemistry." Invited Lecture by V. Percec, Naval research Laboratory, May 28, 2002.
742. "Grazing-Incidence Diffraction Study of Langmuir Films of Amphiphilic Monodendrons." By W.-J. Pao, F. Zhang, P. A. heiney, W.-D. Cho, C. Mitchell, V. S. K. Balagurubamy, V. Percec, presented at the International Liquid Crystal Conference, Edinburgh, Scotland, June 30-July 5, 2002, Poster P601.
743. "Structural Studies of Novel Dendrimeric Liquid Crystals." By P. A. Heiney, W. J. Pao, G. Ungar, V, C. Mitchell, S. Uchida, V. Percec, Presented at the International Liquid Crystal Conference, Edinburgh, Scotland, june 30-july 5, 2002, Poster P. 602.
744. "Application of Isomorphous Replacement in Structure Determination of Cubic and Columnar Phases." Invited Lecture by D. P. Dukeson, G. ungar, V. S. K. Balagurusamy, V. Percec, G. Johansson, Presented at the International Liquid Cruystal Conference, Edinburgh, Scotland, June 30-July 5, 2002.
745. "Self-Organizing Semiconducting Anisotropic Glasses and Liquid Crystals." By K. D. Singer, I. Shiyanskaya and V. Percec, Presented at the International Liquid Cruystal Conference, Edinburgh, Scotland, June 30-July 5, 2002.
746. "Nonbiological Macromolecules with Biological Functions." Invited Lecture by V. Percec, IUPAC International Symposium on Macromolecules, Beijing, China, July7-12, 2002.
747. "Self-Assembling Dendrons as Biological mimics for the Creation of Order and Chirality." Invited Lecture by V. Percec, International Conference on Polymer Synthesis, Macro Group UK, University of Warwick, UK, July 29-August 1<sup>st</sup>, 2002. Book of abstracts, p. IL13.
748. "Nature as a Model for the Elaboration of New Concepts in Chemistry." Invited Lecture by V. Percec, DuPont Central research, Wilmington, August 13, 2002.
749. "Self-Assembling Dendrons as Biological Mimics." Invited Lecture by V. Percec, Atofina Central Research, King of Prussia, PA, August 15, 2002.
750. "Self-Assembling Dendrons as Biological Mimics to Investigate the Origins of Order and Chirality." Invited Lecture by V.Percec, A.E. Dulcey, Y. Miura, U. Edlund, M. Glodde, T.K. Bera, J.G. Rudick, V.S.K. Balagurusamy, S.D. Hudson, P.A. Heiney, International Symposium: Directed Self-Assembly: Molecular engineering of Polymers, ACS Meeting, Boston, August 18-22, 2002. Polym. Prepr.,
751. "Thermal Degradation of polyphenylacetylene and of Polypentadeuterophenylacetylene." J.G. Rudick, V. Percec, W. Buchowicz, P. Nombel, G. Han, M. Obata. ACS Meeting, Boston, August 18-22, 2002.
752. "N-Halo Compounds Nitrogen-Centered Radical, their Chemistry and Application in the Living radical Polymerization of MMA." ACS Meeting, Boston, August 18-22, 2002.
753. "TERMINI: A Universal Method for the Synthesis of Hyperbranched and Dendritic Macromolecules from Conventional Monomers via Living Radical Polymerization." By V. Percec, B. Barboiu, T.K. Bera and C. Grigoras. ACS Meeting Boston, August 18-22, 2002.
754. "On the Mechanism of Metal Catalyzed Radical Polymerization of Vinyl Chloride." By V. Percec, A.V. Popov and O. Weichold. ACS Meeting, Boston, August 18-22, 2002.
755. "Universal strategy to Cylindrical supramolecular Dendrimers Self-Organized in High-Charge Carrier Mobility Materials." By V. Percec, M. Glodde, T.K. Bera, Y. Miura, I. Shiyanskaya, K.D. Singer, V.S.K. Balagurusamy and P.A. Heiney. ACS Meeting, Boston, August 18-22, 2002.
756. "Monodendron Substituted Poly(ethynylcarbazole)s." by J.G. Rudick, V. Percec and M. Obata. ACS Meeting, Boston, August 18-22, 2002.
757. "Monodendron-Jacketed Polyphenylacetylenes." J.G. Rudick, V. Percec, M. Wagner, M. Obata, V.S.K. Balagurusamy, P.A. Heiney, S. Magonov. ACS Meeting, Boston, August 12-18, 2002.
758. "Solvophobicity Driven Self-Assembly of Chiral Supramolecular dendrimers." V. Percec, A.E. Dulcey, Y. Miura, U. Edlund, V.S.K. Balagurusamy, S.D. Hudson, H. Duan, P. Heiney. ACS Meeting, Boston, August 12-18, 2002.

759. "Towards Dynamic Ionic-Channel Like Supramolecular Membranes." by V. Percec, M.R. Imam, M.N. Holerca, G. Ungar, W.-J. Pao, P. A. Heiney. ACS Meeting Boston, August 12-18, 2002.
760. "Nonbiological Macromolecules with Biological functions." Invited lecture by V. percec, University Leuven, Belgium September 16, 2002.
761. "'Nature as a Model for the Elaboration of New Concepts at the Interface Between Organic, Supramolecular and Macromolecular Chemistry.'" Invited Lecture by V. Percec, International Symposium: Polymer Chemistry for the Design of New Materials, Ghent University, Belgium, September 19-20, 2002; Book of Abstracts, p.L1.
762. "Nature as a Model for the Elaboration of New Concepts in Chemistry." Organic Syntheses Distinguished Lecturer, Department of Chemistry, Colorado State University, Fort Collins, September 30, 2002.
763. "Nature as a Model for the Elaboration of New Concepts in Chemistry." Department of Chemistry, University of Colorado, Boulder, Co., October 1, 2002.
764. "Non-Biological Macromolecules with Biological Functions." Invited Lecture by V. Percec, International Symposium: Macromolecules in the 21<sup>st</sup> Century, October 7-9, 2002, Palais Eschenbach, Vienna, Austria Book of Abstracts p. 25.
765. "Cell Membrane as a Model for Supramolecular Membranes." Office of Naval Research Symposium on Membranes, Arlington, VA, October 9-10, 2002.
766. "Nature as a Model for the Elaboration of new Concepts at the Interface Between Organic, Supramolecular and Macromolecular Chemistry." Invited Lecture by V. Percec, Department of Chemistry, university of Chicago, Chicago, October 18, 2002.
767. "Self-Assembling Dendrons as Biological Mimics." Invited Lecture, 26<sup>th</sup> Annual Symposium on Macromolecular Science and Engineering, University of Michigan, Ann Arbor, October 23, 2002.
768. "Non-Biological macromolecules with Biological Functions." Invited lecture by V. Percec, GelTex, Waltham, MA, November 20, 2002.
769. "From Discotic Liquid Crystals to Dendritic Liquid Crystals." Invited Lecture by V. Percec, International Conference on Discotic Liquid Crystals, International Center for Theoretical Physics, Trieste, Italy, November 25-29, 2002; Book of Abstracts, p. 48.
770. "Thermotropic Structures from Wedge-Shaped Molecules." Invited Lecture by G. Ungar, Y. Liu, X.B. Zeng and V. Percec. International Conference on Discotic Liquid Crystals, International Center for Theoretical Physics, Trieste, Italy, November 25-29, 2002; Book of Abstracts, p. 14.
771. "Non-Biological Macromolecules with Biological Functions." Invited Lecture by V. Percec. Japan-US Seminar; Advanced Polymer Chemistry for the 21<sup>st</sup> Century, December 6-10, 2002, Nagoya, Japan; Book of Abstracts, p. 14.
772. "Living Radical Polymerization of Vinyl Chloride." Invited Lecture by V. Percec, EPIC Symposium, Akron, January 22, 2003.
773. "Living Radical Graft Copolymerization from the Structural Defects of PVC." Invited Lecture by V. Percec, EPIC Symposium, Akron, OH, January 22, 2003.
774. "Electronic Transport in Self-Organizing Columnar Phases." I. Shiyankovskaya, K. D. Singer, V. Percec, T. K. Bera, Y. Miura and M. Glodde, Proc. SPIE 4991(2003).
775. "X-ray Diffraction Studies of Ordering in LC Lattice and Supperlattice Structures Formed by Mixtures of a Twin-Tapered dendrimer and a Polymer Containing it as Side-Groups." By P. A. Heiney, V. S. K. Balagurusamy, V. Percec, T. K. Bera, M. Glodde and Q. Fu, Presented at the American Physical Society March Meeting 2003, Austin, TX, March 3-7, Bull. Am. Phys. Soc. Vol. 48, No. 1, p. 1222 (2003).
776. "Self-Organization of Supramolecular Helical Dendrimers Containing Donor/Acceptor Groups in Their Core and Their Co-Assembly with Electroactive Polymers into Complex Electronic Materials." By V. S. K. Balagurusamy, P. A. heiney, V. Percec, T. K. Bera, M. Glodde, Y. Miura, I. Shiyankovskaya, K. D. Singer, I. Schnell, A. Rapp, H.-W. Spiess, S. Hudson, H. Duan." Presented at the American Physical Society March Meeting 2003, Austin, TX, March 3-7, Bull. Am. Phys. Soc. Vol. 48, No. 1, p. 1223(2003).



777. "Non-Biological Macromolecules and Supramolecules with Biological Functions." Weisberger-Williams Lecturer, Eastman Kodak Company, Research and Development Laboratories, Rochester, N.Y., March 11, 2003.
778. "Non-Biological Macomolecules with Biological Functions.' Invited Lecture by V. Percec, ACS Meeting, New Orleans, March 24, 2003.
779. " Non-Biological Antimicrobials." Invited Lecture by V. Percec, ONR Symposium on Molecular Biomimetics, Coolfont, WV, April 9-13, 2003.
780. "Self-Assembling Dendrons as Biological Mimics." Invited Lecture by V. Percec, Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, April 16, 2003.
781. "New Developments in the Living Radical Polymerization of Vinyl Chloride", by V. Percec, EPIC Symposium, Philadelphia, May 14-15, 2003.
782. "New Developments in Living Radical Graft Copolymerization Initiated from the Structural Deffects of PVC". By V. Percec, EPIC Symposium, Philadelphia, May 14-15, 2003.
783. "Non-Biological Polymers with Biological Functions". Plenary Lecture by V. Percec, Seventh International Conference on Frontiers of Polymers and Advanced Materials, Bucharest, Romania, June 10-15, 2003.
784. "Self-Assembling Dendrons as Biological Mimics." Plenary Lecture by V. Percec, Europolymer Congress 2003, June 23-27, 2003, Stockholm, Sweden, Book of Abstracts
785. "Cell Membrane as a Model for Externally Regulated Supramolecular Membranes" Invited Lecture by V. Percec, ONR Symposium on Membranes, July 14-17, 2003, Baltimore, MD.
786. "Nature as a Model For New Concepts in Polymer Science" Invited Lecture by V. Percec, International Symposium on Frontiers in Polymer Chemistry, July 7-8, 2003, Akron, OH.
787. "Nature as a Model for the Elaboration of New Concepts in Molecular Assembly" Invited Lecture by V. Percec, University of Aachen, Aachen, Germany, September 2, 2003.
788. "Bio-Inspired Design of Complex Synthetic Targets." Invited Lecture by V. Percec, University of Rennes, Rennes, France, September 3, 2003.
789. "Self-Assembling Dendrons as Biological Mimics." Plenary Lecture by V. Percec, International Symposium "Advances in Polymeric Materials", September 14-17, 2003, Tarragona, Spain.
790. "Chiral Supramolecular Dendrimers Self-Assembled from Achiral Dendrons." Invited Lecture by V. Percec, The 3<sup>rd</sup> International Dendrimer Symposium, September 17-20, 2003, Berlin, Germany. Books of Abstracts, p. 35.
791. "(3,3,4-4)12G1CH2Net3Cl- Member of a New Class of Cationic Poly(Benzyl Ether) Minidendrons." By V. Percec, U. Edlund and O. Weichold, Presented at The 3<sup>rd</sup> International Dendrimer Symposium, September 17-20, 2003, Berlin, Germany. Books of Abstracts, p. 184.
792. "Bio-Inspired Self-Assembly." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, October 31, 2003.
793. "Self-Assembling Dendrons as Biological Mimics." Invited Lecture by V. Percec, Departments of Chemistry and Pharmacy, University of Wisconsin, Madison, Wisconsin, November 7, 2003.
794. "Self-Assembling Dendrons as Biological Mimics." Invited Lecture by V. Percec, Departments of Chemistry, New York State University at Stony Brook, November 14, 2003.
795. "Bio-Inspired Design of Supramolecular Architectures." Invited Lecture by V. Percec, Materials Research Society Meeting, Boston, MA, December 3, 2003.
796. "Transformation of a Spherical Supramolecular Dendrimer into a Pyramidal Columnar Supramolecular Dendrimer Mediated by the Fluorophobic Effect." by P. A. Heiney, V. S. K. Balagurusamy, M. Glodde, G. Johansson and V. Percec, presented at the American Physical Society Meeting, Montreal, Canada, March 22-26, Bull. Am. Phys. Soc. Vol. 49 (2004)
797. ""Self-Organizing Organic Semiconductor Composites." K. Singer, J. Merlin, I. Shiyankovskaya, V. Percec and M. Glodde, Presented at IOM3 Materials Congress, March, 2004

798. "Nature as a Model for the Elaboration of New Concepts in Polymer Chemistry, ACS Award in Polymer Chemistry ACS Award Lecture, by V. Percec, ACS Meeting Anaheim, CA, March 29, 2004, Abstract of Papers of the American Chemical Society 227, Poly-328.
799. "Self-Assembling Dendrons as Biological Mimics" The First Woodward Lecturer On The Frontier of Chemistry Selected by the Undergraduate Chemistry Students from Harvard University, Chemistry And Chemical Biology Department, Harvard University, April 27, 2004.
800. "Metal Catalyzed Living Radical Polymerization of Vinyl Chloride" EPIC Consortium Meeting, May 11-12, 2004, University of Pennsylvania, Philadelphia.
801. "Non-metal Catalyzed Living Radical Polymerization of Vinyl Chloride" EPIC Consortium Meeting, May 11-12, 2004, University of Pennsylvania, Philadelphia.
802. "Living Radical Graft Copolymerization Initiated from the Structural Defects of PVC" EPIC Consortium Meeting, May 11-12, 2004, University of Pennsylvania, Philadelphia.
803. "Generation and Carrier Mobility in Self-Assembling Organic Semiconductors." By K. Singer, J. Merlin, I. Shiyankovskaya, V. Percec and M. Glodde, presented at the 6<sup>th</sup> International Conference on Functional  $\pi$ -Electron Systems, Ithaca, NY, June, 2004.
804. "Nanostructured Supramolecular Membranes." by V. Percec, DOD Water Program Symposium, Washington DC, June 16-18, 2004.
805. "Self-Assembling Dendrons as Biological Mimics." Invited Lecture by V. Percec, Max Planck Institute for Polymer Research, Mainz, Germany, June 24, 2004.
806. "Nature as a Model for the Elaboration of New Concepts in Supramolecular Polymer Chemistry." By V. Percec, Technical University München, Germany, June 25, 2004.
807. "Nature as a Model for the Elaboration of New Concepts in Chemistry." Romania Academy, Iasi, Romania, June 30, 2004.
808. "Supramolecular Dendritic Liquid Crystals as Biological Mimics." Plenary Lecture by V. Percec, Presented at the 20<sup>th</sup> International Liquid Crystal Conference, Ljubljana, Slovenia, July 4-9, 2004.
809. "Porous Protein Mimics." Invited Lecture by V. Percec, Presented at the 40<sup>th</sup> International Symposium on Macromolecules, Paris, France July 4-9, 2004.
810. "Self-Organizable Polyphenylacetylenes" International Symposium on Dendrimers and Functional Polymers, 228<sup>th</sup> ACS Meeting, Philadelphia, August 22-26, 2004, Polym. Mater. Sci. Eng. 2004, 91, 200-201.
811. "Dendritic Liquid Quasicrystals" International Symposium on Dendrimers and Functional Polymers, 228<sup>th</sup> ACS Meeting, Philadelphia, August 22-26, 2004, Polym. Mater. Sci. Eng. 2004, 91, 858-859.
812. "Polyelectrolyte Dendron Complexes: A Route to Template Polymers" International Symposium on Dendrimers and Functional Polymers, 228<sup>th</sup> ACS Meeting, Philadelphia, August 22-26, 2004, Polym. Mater. Sci. Eng. 2004, 91, 202-203.
813. "Synthesis, Structural and Retrostructural Analysis of Novel AB<sub>2</sub>- and AB<sub>3</sub>-Type Self-Assembled Supramolecular Dendrimers" ACS Meeting, Philadelphia, August 22-26, 2004, Abstract of Papers of the American Chemical Society 228, U49, 266-ORG.N.
814. "Self-Assembling Dendrons Based on an AB<sub>2</sub> Building Block" ACS Meeting, Philadelphia, August 22-26, 2004, Abstract of Papers of the American Chemical Society 228, U49, 188-ORG.N.
815. "Self-Assembling Dendronized Ionic Liquids" ACS Meeting, Philadelphia, August 22-26, 2004, Abstract of Papers of the American Chemical Society 228, U49, 189-ORG.N.
816. "Nickel as a Replacement for Palladium Suzuki-Type Cross-Coupling Reaction" ACS Meeting, Philadelphia, August 22-26, 2004, Abstract of Papers of the American Chemical Society 228, 2004, ORG-162.
817. "Porous Protein Mimics", Invited Lecture by V. Percec, National Academy of Sciences, Washington DC, September 30, 2004.

818. "Self-Assembly of Amphiphilic Dendritic Dipeptides into Helical Pores" DuPont Central Research and Development, Experimental Station, Wilmington, DE, October 11, 2004.
819. "Porous Protein Mimics" Seminar, Department of Chemistry, University of Pennsylvania, Philadelphia, PA, October 18, 2004.
820. "Ultra-high Molar Mass PVC by SET-DTLRP" EPIC Symposium, Philadelphia, October 24-26, 2004.
821. "PVC Based Block Copolymers by SET-DTLRP" EPIC Symposium, Philadelphia, October 24-26, 2004.
822. "Accelerated Synthesis of PVC based Block Copolymers by SET-DTLRP" EPIC Symposium, Philadelphia, October 24-26, 2004.
823. "Ultrafast Synthesis of PVC Based Block Copolymers by SET-DTLRP" EPIC Symposium, Philadelphia, October 24-26, 2004.
824. "Catalytic Effect of DMSO in SET-DTLRP of MMA" EPIC Symposium, Philadelphia, October 24-26, 2004.
825. "Ultrafast Synthesis of Polyacrylates and PVC Containing Block Copolymers by SET-DTLRP" EPIC Symposium, Philadelphia, October 24-26, 2004.
826. "Non-metal Catalyzed Ultrafast SET-DTLRP of Acrylates" EPIC Symposium, Philadelphia, October 24-26, 2004.
827. "New Methods of Block Copolymer Synthesis by SET-DTLRP" EPIC Symposium, Philadelphia, October 24-26, 2004.
828. "Porous Protein Mimics" Invited Lecture, Australian Institute for Bioengineering and Nanotechnology, Queensland University, Brisbane, Australia, November 23, 2004.
829. "Porous Protein Mimics. A New Class of Supramolecular Polymers" Plenary Lecture by V. Percec, 27<sup>th</sup> Australian Polymer Symposium, Polymer Division, Royal Australian Chemical Institute, The University of Adelaide, Australia, November 28- December 2, 2004. Book of Abstracts PL4.
830. "Porous Protein Mimics" Plenary Lecture. International Symposium on Bio-Conjugated Materials and Molecular Devices, Cornell University, Ithaca, NY, December 6-8, 2004.
831. "Porous Protein Mimics" Invited Lecture, Estee Lauder, New York, December 17, 2004.
832. "New Concepts in Living Radical Polymerization" Invited Lecture, Henkel Co, Rocky Hill Connecticut, March 4, 2005
833. "New Concepts in Living Radical Polymerization" Invited Lecture, DuPont, Central Research and Development, Experimental Station, Wilmington, DE, March 9, 2005
834. "Nature as a Model for Supramolecular Photonic and Electronic Materials" Plenary Lecture by V. Percec, International Symposium New Directions in Photonics: Nanoparticles and Biophotonics, ACS Meeting, San Diego, CA, March 13, 2005
835. "New Concepts in Supramolecular Polymer Chemistry" Invited Lecture by V. Percec, Applied Polymer Science Award Symposium in Honor of Craig J. Hawker, ACS Meeting, San Diego, CA, March 14, 2005
836. "Helical Porous Protein Mimics" Invited Lecture by V. Percec, ACS Award in Polymer Chemistry Symposium, ACS San Diego, CA, March 14, 2005.
837. "Designing Fundamental Electronic Functions via Self-Assembly" Invited Lecture, Carl S. Marvel Creative Polymer Chemistry Award Symposium, San Diego, CA, March 15, 2005.
838. "New Concepts at the Interface Between Supramolecular and Macromolecular Chemistry." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 3, 2005
839. "Principles of Living Radical Polymerization." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 4, 2005

840. "Synthesis of Complex Macromolecules by Iterative Methods Comprising Living Radical Polymerization and TERMINI." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 4, 2005
841. "Iterative Methods in Complex Organic Synthesis. Solution Phase, Solid Phase, Divergent Convergent." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 5, 2005
842. "Design and Synthesis of Ionic and Other Channels." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 5, 2005
843. "Chemical Topology." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 6, 2005
844. "Design and Synthesis of Catenanes, Rotaxanes and Knots." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 6, 2005
845. "Design and Synthesis of Artificial Molecular Machines, Muscles, Shuttles and Motors." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 9, 2005
846. "Linear Motion, Rotational Motion, Molecular Switches." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 9, 2005
847. "Design and Synthesis of Molecular and Supramolecular Containers and Capsules." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 10, 2005
848. "Organic Nanotubes." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 11, 2005
849. "Divergent Synthesis of Dendrimers." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 11, 2005
850. "Convergent Synthesis of Dendrimers." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 12, 2005
851. "Supramolecular Dendrimers." Invited Lecture by V. Percec, Royal Institute of Technology, Stockholm, Sweden, May 12, 2005
852. "Self-Assembly of Dendritic Dipeptides into Helical Pores" Invited Lecture by V. Percec, The 4<sup>th</sup> International Dendrimer Symposium, May 18-21, 2005, Central Michigan University, Mount Pleasant, Michigan, USA, Book of Abstracts, p. 9.
853. "Self-Assembled Supramolecular Biphenyl Dendrimers" by V. Percec, J. Smidrkal, M.N. Holerca, S. Numelin, J.J. Morrison, M. Glodde, G.M. Golding, V.S.K. Balagurusamy, M. Peterca, S. Uchida, P.A. Heiney, G. Ungar, Y. Liu presented at The 4<sup>th</sup> International Dendrimer Symposium, May 18-21, 2005, Central Michigan University, Mount Pleasant, Michigan, USA, Book of Abstracts, p. 101
854. "Self-Assembled Micellar Liquid Quasicrystal" Invited Lecture by X.-B. Zeng, G. Ungar, Y. Liu, V. Percec, A. Dulcey, 9<sup>th</sup> International Conference on Quasicrystals, May 22-26, 2005, Iowa State University, Ames, IA, USA, Book of Abstracts, p. 92-93.
855. "Soft Quasicrystals. The Virtue of Failure" After Dinner Invited Lecture by V. Percec, 9<sup>th</sup> International Conference on Quasicrystals, May 22-26, 2005, Iowa State University, Ames, IA, USA.
856. "Nature as a Model for the Elaboration of New Concepts in Polymer Science" Invited Lecture by V. Percec, Helsinki University of Technology, Helsinki, Finland, June 9, 2005.
857. "Helical Porous Protein Mimics" Plenary Lecture by V. Percec, International Workshop on Supramolecular Chemistry and Self-Assembly, Nanoscience Center and Department of Chemistry, University of Jyvaskyla, Jyvaskyla, Finland, June 10, 2005.
858. "Helical Porous Protein Mimics", Invited Lecture by V. Percec, Gordon Research Conference in Bioorganic Chemistry, June 12-17, 2005, Proctor Academy, NH, USA.
859. "Helical Porous Protein Mimics" Plenary Lecture by V. Percec, European Science Foundation Conference on Biological Surfaces and Interfaces: Biomaterials, Biosensors & Analytical Techniques, San Feliu de Guixols, Spain, June 18-23, 2005.

860. "Porous Protein Mimics" Invited Lecture by V. Percec, Gordon Research Conference, Polymers East, Mount Holyoke College, MA, USA, June 19-24, 2005.
861. "Porous Protein Mimics" Invited lecture by V. Percec, 2005 USA-Japan Forum: Advances in Polymer Chemistry and Their Impact upon Society, Lakeland Village Beach & Mountain Resort, South Lake Tahoe, CA, USA, June 24-29, 2005, Book of Abstracts, p.67.
862. "Self-Assembly Mediated by the Fluorophobic Effect" Plenary Lecture by V. Percec, 1<sup>st</sup> International Symposium On Fluorous Technologies, July 3-6, 2005, Bordeaux-Talence, France, Book of Abstracts, p. 16.
863. "Self-Assembly, self-Organization and Self-Replicating Materials" Invited Key Note Lecture by V. Percec presented at Royal Society of Chemistry 7<sup>th</sup> Materials Chemistry Conference: Functional Materials for the 21<sup>st</sup> Century, July 5-8, 2005, University of Edinburgh, UK.
864. "Nature as a Model for New Concepts in Supramolecular Polymer Chemistry." Invited Lecture by V. Percec presented at the International Symposium "Biologically Enabled and Bio-Inspired Polymers." 230<sup>th</sup> ACS Meeting, Washington, DC, August 28-September 1, 2005.
865. "Porous Protein Mimics." The Seventh Annual Rohm & Haas Lecture in Polymer Chemistry, The College of Chemistry, University of California, Berkeley, September 20, 2005.
866. "Reconstructing the Cell Membrane and its Transmembrane Constituents." Plenary lecture by V. Percec ERATO Symposium, The University of Tokyo, Tokyo, Japan, September 26, 2005.
867. "Helical Porous Protein Mimics." Invited Lecture, Department of Chemistry and Biochemistry, University of Texas, Austin, Texas, October 7, 2005.
868. "New Developments in Living Radical Polymerization" Plenary Lecture by V. Percec, Infineum, NJ, November 1, 2005
869. "Nature as a Model for the Elaboration of New Concepts in Polymer Chemistry" Plenary Lecture by V. Percec, Infineum, NJ, November 1, 2005.
870. "Porous Protein Mimics" Invited Lecture by V. Percec, Princeton University, Princeton, November 4, 2005.
871. "Helical Porous Protein Mimics" Invited Lecture by V. Percec, Pierre et Marie Curie University, Paris, France, November 14, 2005.
872. "Bio-Inspired Supramolecular Liquid Crystals." Plenary Lecture, Royal Society, London, UK, December 5, 2005.
873. "Bridging Between Macromolecular, Supramolecular and Biological Sciences with the Aid of Porous Protein Mimics." Staudinger-Durrer Lecture, ETH, Zurich, Switzerland, December 6, 2005.
874. "New Concepts in Living Polymerizations and New Strategies Designed with the Aid of Living Polymerizations." Plenary Lecture, Pacific Polymer Federation, Maui, Hawaii, December 12, 2005.
875. "Helical Porous Transmembrane Protein Mimics." Invited Lecture by V. Percec, International Chemical Congress of Pacific Basin Societies, Pacificchem 2005, Honolulu, December 15, 2005.
876. "Designing Bio-Inspired Supramolecular Materials with the Aid of Liquid Crystals." Invited Lecture by V. Percec, International Chemical Congress of Pacific Basin Societies, Pacificchem 2005, Honolulu, December 16, 2005.
877. "New Concepts in Living Radical Polymerization." Invited Lecture by V. Percec, International Chemical Congress of Pacific Basin Societies, Pacificchem 2005, Honolulu, December 19, 2005.
878. "Porous Protein Mimics." Invited Lecture by V. Percec, Gordon Research Conference on "Organic Structures and Properties, January 8-13, 2006, Santa Ynez Valley Marriott, Buellton, CA.
879. "Aquaporin Channel-Like Membranes for Water Desalination" Invited Lecture by V. Percec, Expeditionary Unit Water Purification ONR Program Review Symposium, January 18-19, 2006, Renaissance Long Beach Hotel, CA.
880. "Ultrafast Living Radical Polymerization" Invited Lecture by V. Percec, Henkel Corporation, CT, February 28, 2006.

881. "Structure of Porous Columns Self-Assembled from Dendritic Dipeptides" by P. Heiney, M. Peterca, V. Balagurusamy, S. Hudson, A. Dulcey, V. Percec, presented at the APS March Meeting, March 13-17, Baltimore, Abstract: W33.00014.
882. "Hollow Rectangular Columnar Structure in Dendritic Supramolecular Assemblies" by M. Peterca, P. Heiney, M. Ilies, A. Dulcey, S. Nummelin, V. Percec, presented at the APS March Meeting, March 13-17, 2006, Baltimore, Abstract: V21.00012.
883. "Biological Sciences Inspired a Bridge Between Supramolecular and Polymer Chemistry." Invited Lecture by V. Percec, International ACS Award Symposium in Polymer Chemistry in Honor of E.W. Meijer, March 26, 2006, ACS Meeting Atlanta, GA, March 26-30, 2006.
884. "Self-Assembling Dendritic Dipeptide Bioconjugates" Invited Lecture by V. Percec presented at the International Symposium "Polymer Bioconjugates for Therapeutics and Biotechnology," ACS Meeting Atlanta, GA, March 26-30, 2006.
885. "Self-Assembling Dendritic Crowns" invited lecture by V. Percec, May 20, 2006, Max Planck Institute for Polymer Research, Mainz, Germany.
886. "Searching for the Structural Origin of Functions with the Aid of Self-Assembling Dendrons and Dendrimers" Plenary Lecture by V. Percec, Euroconference on Dendrimer Soft Self-Assembly Systems, May 17-20, 2006, Obernai, France.
887. "Self-Assembling Dendrons as Biological Mimics" invited lecture by V. Percec, May 22, 2006, University of Zaragoza, Zaragoza, Spain.
888. "Self-Assembly of Dendritic Dipeptides" invited lecture by V. Percec, May 23, 2006, University of Zaragoza, Zaragoza, Spain.
889. "Self-Assembly of Giant Functional Materials. Supramolecular or Colloidal Systems?" Plenary Lecture by V. Percec, 80<sup>+</sup> ACS Colloid & Surface Science Symposium, Boulder, Colorado School of Mines, University of Colorado at Boulder, June 18-21, 2006.
890. "Aquaporin-Channel-Like Membranes", Invited Lecture by V., Percec, ONR Symposium, Washington DC, June 27, 2006.
891. "Nanostructured Supramolecular Membranes", Invited Lecture, ONR Symposium, Washington DC, June 27, 2006.
892. "Porous Protein Mimics" Keynote Lecture by V. Percec, International Symposium on Macrocyclics and Supramolecular Chemistry, June 25-30, 2006, Victoria, British Columbia, Canada.
893. "Self-Assembly of Porous Supramolecular Polymers", Invited lecture by V. Percec, World Polymer Congress, Macro 2006, Rio de Janeiro, Brazil, July 16-21, 2001.
894. "Ultrafast Living Radical Polymerization." Invited Lecture, by V. Percec, Macro 2006 International Conference on Polymer Synthesis, University of Warwick, Warwick, UK, July 31-August 3, 2006.
895. "Reconstructing the Cell Membrane" Invited Lecture by V. Percec, "P. Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania, August 18, 2006.
896. "Science and Education in US." Invited Lecture, By V. Percec, Romanian Academy, August 18, 2006.
897. "Helical Porous Protein Mimics" Invited lecture by V. Percec, University of Wuerzburg, Germany, August 24, 2006.
898. Percec, Virgil; Won, Betty C.; Peterca, Mihai; Heiney, Paul A. Design, synthesis, and structural and retrostructural analyses of libraries of AB<sub>4</sub> and AB<sub>5</sub> self-assembling dendrons and supramolecular dendrimers. Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006), ORGN-329.
899. "Self-Assembly of Biological Mimics" Invited Lecture by V. Percec, University of Indiana, Bloomington, IN, September 21, 2006.
900. "Helical Porous Protein Mimics. The Virtue of Failure." Invited Lecture by V. Percec, University of Nijmegen, The Netherlands, September 26, 2006.

901. "Porous Protein Mimics." Invited Lecture by V. Percec, University of Eindhoven, The Netherlands, September 28, 2006.
902. "Self-Assembly of Dendritic Dipeptides into Helical Protein Mimics." Foster Chemistry Lecture, by V. Percec, Department of Chemistry, The State University of New York at Buffalo, November 10, 2006.
903. "Reconstructing the Cell Membrane." Invited Lecture by V. Percec, Department of Chemistry, University of Massachusetts, Lowell, MA, November 16, 2006.
904. "Self-Assembly of Dendritic Dipeptides into Helical Porous Protein Mimics." The Charles William Murtiashaw III Lecture in Organic Chemistry, By V. Percec, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC, December 1, 2006.
905. "Reconstructing the Cell Membrane", Invited Lecture by V. Percec, University Rovera i Virgili, Tarragona, Spain, December 18, 2006.
906. "Complex Supramolecular Polymers as Biological Mimics" by V. Percec, Plenary Lecture, "Polymer Science for the 21<sup>st</sup> Century" an International Conference dedicated to the 50<sup>th</sup> Anniversary of the first Chair in Polymer Chemistry from Moscow State University and the 100<sup>th</sup> Anniversary of the birthday its first holder Professor V.A. Kargin, Moscow State University, Moscow Russia, January 29-February 2, 2007.
907. "Reversible Associating Polymers as Biological Mimics", Plenary Lecture by V. Percec, American Physical Society Meeting, March 5-7, 2007, Denver, Colorado.
908. "Designing Biological Functions in Complex Supramolecular Materials", by V. Percec, Distinguished Lecture Series, National Institute for Science and technology, Washington DC, March 22, 2007.
909. "Designing Biological Functions in Supramolecular Polymers", Invited Lecture by V. Percec, "International Symposium on Advanced Materials: Building Functional Systems via Self-Assembly" Universidad de Puerto Rico en Humacao, April 27, 2007.
910. "Ultrafast Synthesis of Ultrahigh Molar Mass Polymers by SET-LRP of Acrylates, Methacrylates and Vinyl Halides at Room Temperature", Plenary Lecture, by V. Percec, Nürenberg Congress and European Coatings Show, May 7-9, 2007, Nürenberg, Germany.
911. "Designing Biological Functions in Complex Supramolecular Materials" Invited Distinguished Lecturer, Ciba Specialty Chemicals, Tarrytown, N.Y., May 17, 2007.
912. "Ultrafast Synthesis of High Molar Mass Polymers by SET-LRP at Room Temperature" Invited Distinguished lecturer, Ciba Specialty Chemicals, Tarrytown, N.Y., May 17, 2007
913. "Ultrafast Synthesis of Ultrahigh Molar Mass Polyacrylates, Polymethacrylates and Polyvinylchloride by SET-LRP at Room Temperature." Invited Lecture, "P. Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania, May 28, 2007.
914. "Bio-Inspired Complex Functional Systems: Hierarchical Transfer of Structural Information". Invited Lecture Doctor Honoris Causa Award Ceremony, Universitatea Tehnica "Gh. Asache" Iasi, Romania, May 29, 2007.
915. "Designing Complex Supramolecular Electronic Materials" Plenary Lecture by V. Percec, "7<sup>th</sup> International Conference on pi-conjugated Polymers and functional Self-Assemblies (OP 2007), Turku, Finland, June 10-15, 2007.
916. "Designing Biological Functions in Complex Nonbiological Assemblies." Invited Lecture by V. Percec, International Congress on Nano Science and Technology, Stockholm, Sweden, July 2-6, 2007.
917. "Ultrafast Synthesis of Ultrahigh Molecular Weight Polymers by SET-LRP" Invited Lecture by V. Percec, DuPont, Marshall Labs. Philadelphia, August 7, 2007.
918. "Fluorous Phase Mediated Self-Assembly of Bioinspired Functional Nanostructures." Plenary Lecture by V. Percec, International Symposium on Nanostructured: Smart Molecules for Self-Assembly Processes and Synthetic Protocols.", Division of Fluorine Chemistry, 234<sup>th</sup> ACS Meeting Boston, MA, August 19-23, 2007.

919. "New Concepts in the Self-Assembly of Complex Supramolecular Dendrimers." New Journal of Chemistry Endowed Plenary Lecture by V. Percec, 5<sup>th</sup> International Dendrimer Symposium, Toulouse, France, August 28-September 1, 2007.
920. "What is CD Not Telling US About Helical Chirality and X-ray Diffraction Does?" DSM Plenary Lecture, by V. Percec, 11<sup>th</sup> International Conference on Circular Dichroism, Groningen, The Netherlands, September 2-6, 2007.
921. "Aquaporin Channel-Like Membranes for Water Desalination." Invited Lecture by V. Percec, ONR Symposium, Las Cruces, New Mexico, September 19-20, 2007.
922. "From Complex Self-Assembling Dendrons and Dendrimers to Supramolecular Nanostructures, Functions and Systems." Invited Lecture, NSF Workshop "Periodic Patterns, Relationships and Categories of Well-Defined Nanoscale Building Blocks." Central Michigan University, Mt. Pleasant, MI September 24-25, 2007.
923. "Ultrafast Synthesis of Ultrahigh Molar Mass Complex Architectures by Single Electron Transfer Mediated Living Radical Polymerization (SET-LRP) at Room Temperature." Invited Lecture by V. Percec, Rohm and Haas, Spring Field, PA, October 9, 2007.
924. "Nature as a Model for New Concepts in Chemistry." Lecture by V. Percec Presented at the Doctor Honoris Causa Ceremony at the University of Athens, Athens, Greece, November 5, 2007.
925. "Bioinspired Self-Assembly of Functional Nanosystems." Invited Lecture by V. Percec, Symposium on Self-Assembly, New York Academy of Science, New York, November 7, 2007.
926. "Bio-Inspired Self-Assembly of Functional Nanosystems." Invited Lecture, by V. Percec, Department of Chemistry, University of Georgia, Athens, GA, November 20, 2007.
927. "Synthesis of Polymers with Complex Architecture by SET-LRP". Invited Lecture by V. Percec, Henkel Corporation, Rocky Hill, Connecticut, November 27, 2007.
928. "Bioinspired Self-Assembly of Complex Functional Nanosystems." Invited Lecture by V. Percec, Kyoto University, Kyoto, Japan, December 3, 2007.
929. "Self-Assembling Dendrons as Biological Mimics." Invited lecture by V. Percec, Osaka City University, Osaka, Japan, December 4, 2007.
930. "Designing Functional Nanostructures and Systems with the Aid of Complex Self-Assembling Dendrons and Dendrimers." Invited Lecture by V. Percec, The 10<sup>th</sup> Pacific Polymer Conference, Kobe, Japan, December 5, 2007.
931. "Ultrafast Synthesis of Ultrahigh Molar Mass Polymers with Complex Architecture by Single Electron Transfer Mediated Living Radical Polymerization (SET-LRP) at Room Temperature." Invited Lecture by V. Percec, Kaneka Corporation, Osaka, Japan, December 6, 2007.
932. "Bio-Inspired Synthesis of Functional Nanosystems." Invited Lecture by V. Percec, Zernike Institute Colloquium, University of Groningen, Groningen, Netherlands, January 10, 2008.
933. "Bio-Inspired Concepts in Supramolecular Materials." Plenary Lecture by V. Percec, International Symposium on Self-Assembly and Nano-Structured Polymers organized by during the 2008 ROC Taiwan Polymer Society Annual Meeting, National Chiao Tung University, Hsinchu, Taiwan, January 18-19, 2008.
934. "Bridging Between Polymer, Supramolecular and Bioorganic Chemistries in Order to Elucidate the Structural Origins of Functions." International Award Lecture presented by V. Percec at The 57<sup>th</sup> Annual Meeting of the Society of Polymer Science, Japan (SPSJ), Yokohama, Japan, May 28-May 30, 2008.
935. "Bioinspired Synthesis of Complex Systems with Biological Functions." Invited Lecture by V. Percec, International Workshop on Biomacromolecules 2008. Renewable, Degradable and Biomedical Polymers. Stockholm, Sweden, June 1-4, 2008.
936. "Cristofor I. Simionescu. The Father of Romanian School of Macromolecular Science." Invited Lecture by V. Percec, The First Cristofor I. Simionescu Symposium: Frontiers in Macromolecular Science. June 19-20, 2008, Iasi, Romania.
937. "Bioinspired Synthesis of Complex Systems with Biological Functions." Plenary Lecture by V. Percec, The First Cristofor I. Simionescu Symposium: Frontiers in Macromolecular Science. June 18, 2008, Bucharest, Romania.



938. "Bioinspired Synthesis of Complex Systems with Biological Functions." Plenary Lecture by V. Percec, The First Cristofor I. Simionescu Symposium: Frontiers in Macromolecular Science. June 19-20, 2008, Iasi, Romania.
939. "Bioinspired Synthesis of Complex Systems with Biological Functions." Invited Lecture by V. Percec, National Chiao Tung University, Hsinchu, Taiwan, June 26, 2008.
940. "Self-Assembly of Complex Systems with Biological Functions." Invited Lecture by V. Percec, Institute of Chemistry, Academia Sinica, Taipei, Taiwan, June 27, 2008.
941. "Bioinspired Synthesis of Nonbiological Systems Exhibiting Biological Functions." Invited Lecture by V. Percec, The 42<sup>nd</sup> IUPAC World Polymer Congress, Macro 2008 "Polymers at Frontiers of Science and Technology, June 29-July 4, Taipei, Taiwan.
942. "Designing Functional Materials by a Combination of Self-Assembly and Self-Organization." Invited Lecture by V. Percec, The 42<sup>nd</sup> IUPAC World Polymer Congress, Macro 2008 "Polymers at Frontiers of Science and Technology, June 29-July 4, Taipei, Taiwan.
943. "From Aquaporin Mimics to Molecular Machines via Self-Assembly." Invited Lecture by V. Percec, Presented at the IIIrd International Symposium on Macrocyclics and Supramolecular Chemistry (III ISMSC), Las Vegas, July 13-July 18, 2008.
944. "Nanomechanical Function from Self-Organizable Dendronized Helical Polyphenylacetylenes." by V. Percec, J.G. Rudick, M. Peterca, P.A. Heiney, presented at the American Chemical Society 236<sup>th</sup> National Meeting, Philadelphia, August 17-21, 2008.
945. "Synthesis and Self-Assembly of Dendritic Dipeptide Pores." By V. Percec, S. Nummelin, A.E. Dulcey, M. Peterca, J. Smidrkal, M. Ilies, P.A. Heiney, presented at the American Chemical Society 236<sup>th</sup> National Meeting, Philadelphia, August 17-21, 2008.
946. "Bioinspired Synthesis of Complex Systems with Biological Functions." By V. Percec, Plenary Lecture presented at the Romanian Academy, Bucharest, September 17, 2008.
947. "Self-Assembly of Aquaporin Mimic." Invited lecture by V. Percec Presented at the Biannual Meeting of the GDCh-Division of "Macromolecular Chemistry" Bio & Polymers New Polymer Technologies with Water, September 28-30, 2008 Aachen, Germany.
948. "Single-Electron Transfer Mediated Living Radical Polymerization." Invited Lecture by V. Percec presented at Henkel Central Research, Duesseldorf, Germany, October 1, 2008.
949. "Single-Electron Transfer Mediated Living Radical Polymerization. Scope and Limitations." Invited Lecture by V. Percec presented at BASF Central Research, Ludwigshaffen, Germany, October 2, 2008.
950. "Bioinspired Synthesis of Complex Systems with Biological Functions." The 36<sup>th</sup> Annual G. Straford Whitby Memorial Lectures at the Department of Polymer Science, University of Akron, Akron, OH, October 21, 2008.
951. "Ultrafast Synthesis of Ultrahigh Molar Mass Polymers with Complex Architecture by Single Electron Transfer Mediated Living Radical Polymerization (SET-LRP) at RT." The 36<sup>th</sup> Annual G. Straford Whitby Memorial Lectures at the Department of Polymer Science, University of Akron, Akron, OH, October 21, 2008.
952. "New Synthetic Methods and Strategies for Organic, Supramolecular and Macromolecular Chemistry." Invited Lecture by V. Percec, Bridgestone Americas Center for Reserch and Technology, Akron, OH, October 22, 2008.
953. "Future Development on Nanotechnology." Invited Lecture presented at the NanoFrontiers 2.0 , The project on Emerging Nanotechnologies, organized by the National Science Foundation at the Woodrow Wilson International Center for Scholars, Ronald Reagan Building and International Trade Center, Washington DC, November 17, 2008.
954. "Bioinspired Synthesis of Complex Functional Nanosystems." H.F. Mark Medal Lecture, Palais Eschenbach, Vienna, Austria, November 19, 2008.
955. "Molecular Machines from Self-Organizable Dendronized Polymers." Invited lecturer of the Organic Division of the Swiss Chemical Society, University of Geneva, Geneva, Switzerland, November 20, 2008.
956. "Reconstructing the Cell Membrane and Its Components." Invited lecturer of the Organic Division of the Swiss Chemical Society, University of Basel, Department of Chemistry, Basel, Switzerland, November 21, 2008.

957. "Bioinspired Synthesis of Complex Systems with Biological Functions." Invited lecturer of the Organic Division of the Swiss Chemical Society, University of Newchatel, Institute of Chemistry, Newchatel, Switzerland, November 24, 2008.
958. "Accelerated Design of Programmed Building Blocks via Retrostructural Analysis of Libraries of Self-Assembling Dendrons." Invited lecturer of the Organic Division of the Swiss Chemical Society, University of Newchatel, Institute of Chemistry, Newchatel, Switzerland, November 24, 2008.
959. "Ultrafast Synthesis of Ultrahigh Molar Mass Polymers with Complex Architecture by Single-Electron Transfer Mediated Living Radical Polymerization." Invited lecturer of the Organic Division of the Swiss Chemical Society, University of Bern, Department of Chemistry and Biochemistry, Bern, Switzerland, November 24, 2008.
960. "Bioinspired Synthesis of Complex Functional Nanosystems." Invited Lecture, DSM Central Research Laboratories, Geleen, Netherlands, December 8, 2008.
961. "Self-Assembly of Complex Functional Systems." Invited Lecture, Institute for Complex Molecular Systems, Eindhoven University, Eindhoven, Netherlands, December 9, 2008.
962. "The Molecular Structure of Helical Supramolecular Dendrimers." Invited lecture at the International Symposium Prof. Roeland Nolte "A Master in Molecular Matter." December 11 and 12, 2008, Institute for Molecules and Materials, Radboud University of Nijmegen, Nijmegen, Netherlands.
963. "The Molecular Structure of Helical Supramolecular Dendrimers & Its Role in the Assembly of Complex Functional Systems." Invited lecture Presented at the 2008 Japan-USA Seminar on Polymer Synthesis "Meeting the Challenge of Molecular Level Control." December 13-17, 2008, The Awaji Yumebutai Conference Center, Awaji, Hyogo, Japan.
964. "New Synthetic Methods & Strategies for Organic, Macromolecular & Supramolecular Chemistry." Invited Lecture, Henkel Corporation, January 12, 2009, Irvine, CA.
965. "Self-Assembly of an Aquaporin Mimic." Invited Organic Division Lecture, Department of Chemistry, University of California, Berkeley, CA, March 3, 2009.
966. "The Structural Origin of Functions in Complex Helical Bioinspired Systems." Invited Lecture by Virgil Percec, International Symposium Honoring the ACS Award in Polymer Chemistry to Takuzlo Aida, ACS Meeting, Salt Lake City, March 23, 2009.
967. "The Molecular Structure of Bio-Inspired Helical Supramolecular Dendrimers." Invited Lecture by V. Percec, International Symposium "Synthesis of Bio-Inspired Hierarchical Soft and Hybrid Materials, April 14, 2009, San Francisco, CA, Material Research Society Spring Symposium.
968. "Bioinspired Synthesis of Complex Functional Systems, The Centennial Michael M. Szwarc Lectureship, The M. Szwarc Polymer Research Institute, State University of New York, College of Environmental Science and Forestry, Syracuse, NY, April 23, 2009.
969. "Bioinspired Synthesis of Nonbiological Systems Exhibiting Biological Functions." Plenary Lecture, Carothers Award Symposium, DuPont Country Club, ACS Local Section Delaware, Wilmington, Delaware, May 11, 2009.
970. "The Structural Origins of Functions in Complex Systems." Plenary Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 1, 2009.
971. "The Structural Origins of Functions in Complex Systems." Plenary Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Iasi, Romania, June 2-3, 2009.
972. "From Structure to Function *via* Self-Assembling Dendrons and Dendrimers." Plenary Lecture, The 6<sup>th</sup> International Dendrimer Symposium, IDS-6, Royal Institute of Technology, Stockholm, Sweden, June 14-18, 2009.
973. "Bioinspired Synthesis of Complex Functional Systems." Plenary Lecture, 73<sup>rd</sup> Prague Meetings on Macromolecules, "New Frontiers in Macromolecular Science: From Macromolecular Concepts of Living Matter to Polymers for Better Quality of Life. July 5-9, 2009, Prague, Czech Republic.
974. "Bioinspired Synthesis of Complex Functional Systems." Plenary Lecture, European Polymer Congress Organized by the European Polymer Federation, Graz, Austria, July 12-17, 2009.

975. "Self-Assembly of Complex Functional Systems." Invited Lecture presented at the Herman F. Mark Award Symposium in Honor of Professor Jean Frechet, 238<sup>th</sup> American Chemical Society National Meeting, Washington DC, August 16-20, 2009.
976. "Bioinspired Synthesis of Complex Macromolecular Systems." Plenary Lecture, International Symposium "Polymers for Advanced Technologies" Jerusalem, Israel, October 11-14, 2009.
977. "Nature as a Model for the Self-Organization of Complex Functional Systems." Invited Lecture, International Symposium "Contemporary Research in Polymer Engineering and Science" Technion-Israel Institute of Technology, Haifa, Israel, October 15, 2009.
978. "Bioinspired Synthesis of Complex Systems " Invited Lecture, Department of Organic Chemistry, Weizmann Institute, Rehovot, Israel, October 15, 2009.
979. "Bioinspired Synthesis of Complex Functional Systems" Invited Lecture, Department of Organic Chemistry, Tel Aviv University, Tel Aviv, October 18, 2009.
980. "Frontiers in Polymer Synthesis." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 22, 2009.
981. "Bioinspired Synthesis of Complex Functional Systems" Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 23, 2009.
982. "Bioinspired Synthesis of Complex Functional Systems" Invited Lecture, Helsinki University of Technology, Helsinki, Finland, October 28, 2009.
983. "Bioinspired Synthesis of Complex Systems" Plenary Lecture, Nanoscience Days, Jyväskylä University, Finland, October 29-30, 2009.
984. "Bioinspired Synthesis of Complex Functional Systems" Invited Lecture, Max Planck Institute for Polymers, Mainz, Germany, December 8, 2009.
985. "Bioinspired Synthesis of Complex Functional Systems, Invited Lecture, International PMSE ACS Award Symposium, ACS Meeting, San Francisco, March 22, 2010.
986. "Bioinspired Assembly of Complex Functional Systems." Invited Lecture, University of Bayreuth, Germany, April 7, 2010.
987. "C.I. Simionescu-A Man Ahead of his Time, a Great Spirit and Visionary." Invited Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 7, 2010.
988. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 7, 2010.
989. "C.I. Simionescu-A Man Ahead of his Time, a Great Spirit and Visionary." Invited Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 8, 2010.
990. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 8, 2010.
991. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, Institute of Macromolecular Chemistry, University of Freiburg, Freiburg, Germany, June 18, 2010.
992. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, University of Aachen, Department of Chemistry, Aachen, Germany, June 21, 2010.
993. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, Kekule Institute of Organic Chemistry and Biochemistry, University of Bonn, Bonn, Germany, June 22, 2010.

994. "Supramolecular Electronics." Plenary Lecture, Pre-Conference of ICSM2010 Nara, Japan, July, 1-2, 2010.
995. "Kinetically Controlled Self-Assembly of Supramolecular Electronics." KeyNote Lecture, International Conference on Synthetic Metals, Kyoto, Japan, July 4-9, 2010.
996. "Self-Controlled Supramolecular and Living Radical Polymerizations." Keynote Lecture, 43<sup>rd</sup> IUPAC World Polymer Congress, Macro2010, Glasgow, UK, July 11-16, 2010.
997. "Self-Controlled Supramolecular and Living Radical Polymerizations." Plenary Lecture, 74<sup>th</sup> IUPAC Prague Meeting on Macromolecules "Contemporary Ways to Tailor-Made Polymers. Modern Methods of Polymer Synthesis." Prague, Czech Republic, July 18-22, 2010.
998. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, International Symposium "From Molecules to Macromolecules. Towards Self-Assembling Materials." ACS Symposium, Boston, August 22-26, 2010.
999. "The Thio-Bromo Click Chemistry and its Application to the Synthesis of Dendritic Macromolecules." ACS Boston, August 22-26, 2010.
1000. "Bioinspired Synthesis of Complex Functional Systems." Plenary Lecture presented at the Scientific Advisory Board Meeting of Henkel Company, Bridgewater, NJ, September 28-29, 2010.
1001. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, Department of Chemistry, Technical University of Munich, Munich, Germany, October 8, 2010.
1002. "Bioinspired Synthesis of Complex Functional Systems." Plenary Lecture, 8<sup>th</sup> Hellenic Polymer Society Symposium, Crete, Greece, October 24-29, 2010.
1003. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, BASF, Ludwigshafen, Germany, November 22, 2010.
1004. "SET-LRP-A Self-Controlled Living Radical Polymerization." Invited Lecture, BASF, Ludwigshafen, Germany, November 22, 2010.
1005. "Designing Complex Macromolecular Nano-Systems?" Invited Lecture, National Science Foundation Nanoscale Science and Engineering Conference, Washington DC, December 6-8, 2010.
1006. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, Institute of Organic Chemistry, University of Ulm, Ulm, Germany, December 9, 2010.
1007. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, Pacificchem SyInternational Symposium on "The New Age of Advanced Materials: Supramolecular Architectures and Smart Materials", Honolulu, December 15-19, 2010.
1008. "Self-Assembly of Complex Liquid Crystals." Plenary Lecture, European Liquid Crystals Conference, Maribor, Slovenia, February 6-11, 2011.
1009. "Bioinspired Synthesis of Complex Molecular Systems." Plenary Lecture, Makromolekulares Kolloquium Freiburg, Freiburg University, Freiburg, Germany, February 24-26, 2011.
1010. "From Discovery to Prediction via Self-Assembling Dendrons and Dendrimers." Invited Lecture, International Symposium Bio-Inspired Self-Assembly of Macromolecules, ACS Meeting Anaheim, CA, March 27-31, 2011.
1011. "Self-Assembly of Janus-Dendrimers into uniform Dendrimersomes and Other Complex Architectures." Invited Lecture, International Symposium Bio-Inspired Self-Assembly of Macromolecules, ACS Meeting Anaheim, CA, March 27-31, 2011.
1012. "Bioinspired Synthesis of Complex Molecular Systems." The Innaugural Kavli Foundation Innovation in Chemistry Lecture, ACS Anaheim, March 27-31, 2011.
1013. "Thermodynamically Controlled Crystallization? Max Planck for Polymer Research, Mainz, Germany" April 14, 2011.

1014. "Mimics of Complex Biological Membranes." University of Freiburg, Germany, April 15, 2011.
1015. "Bioinspired Synthesis of Complex Systems." Invited GDCh Colloquium, University of Stuttgart, Stuttgart, Germany, May 19, 2011.
1016. "C.I. Simionescu-A Great Spirit and Visionary." Invited Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, May 30, 2011.
1017. "Bioinspired Synthesis of Complex Systems" Plenary Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science" Romanian Academy, Bucharest, Romania, May 30, 2011.
1018. "C.I. Simionescu-A Man Ahead of his Time." Invited Lecture, International Symposium Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Iasi, Romania, May 31st, 2011.
1019. "New Synthetic Methods and Strategies for Organic, Macromolecular and Supramolecular Chemistry." Plenary Lecture, International Symposium "Frontiers in Macromolecular and Supramolecular Science." Iasi, Romania, May 31st, 2011.
1020. "Biological Mimics" Plenary Lecture, International Symposium "Molecular Mobility and Order in Polymer Systems.", St. Petersburg, Russia, June 6, 2011.
1021. "Bioinspired Synthesis of Complex Molecular Systems." Plenary Lecture, 7th International Dendrimer Symposium, NIST Campus, Gaithersburg, MD, June 26-30, 2011.
1022. "Self-Assembly of Amphiphilic Janus Dendrimers into Dendrimersomes." Lecture, 7th International Dendrimer Symposium, Washington, DC, June 26-30, 2011.
1023. "Synthetic Biology." Plenary Lecture, IUPAC International Symposium on Ionic Polymerization, Akron, OH, July 10, 2011.
1024. "SET-I-RP A Self-Controlled Living Radical Polymerization." 43rd International IUPAC World Chemistry Congress, Invited Lecture, Puerto Rico, July 7-August 5, 2011.
1025. "Covalent and Supramolecular Polymerizations." Plenary Lecture, "9th International Conference on Advanced Polymers via Macromolecular Engineering" Cappadocia, Turkey, August 5-7, 2011.
1026. "Bioinspired Synthesis and Self-Assembly of Complex Molecular Systems." Invited Seminar, Department of Chemistry, SUNY at Stony Brook, NY, August 9, 2011.
1027. "Bioinspired Synthesis of Complex Functional Systems." International Symposium "Templates in Chemistry Progress and Perspectives." University Bonn, Bonn, Germany, August 22-24, 2011.
1028. "Self-Assembly of Hybrid Dendrons into Bilayered Columns and Vesicles." M R. Imam and V. Percec, Presented at the ACS Meeting Abstract of Papers, Vol. 242, 529-0rg, Aug. 28, 2011.
1029. "Self-Assembly of Complex Functional Nano-Systems, Plenary Lecture, Symposium "Macromolecular Nanoobjects and Polymer Nanocomposites." Moscow, October 23-28, 2011.
1030. "Self-Assembly of Complex Functional Liquid Crystals." Plenary Lecture, International Symposium "Soft Matter Chemistry, Raman Research Institute, Bangalore, India, November 8-11, 2011.
1031. "Bioinspired Synthesis and Self-Assembly." Joint Lecture, Max Planck Graduate Center and University of Mainz, Max Planck Institute for Polymer Research, Mainz, November 16, 2011.
1032. "Bioinspired Synthesis of Complex Molecular Systems." Plenary Lecture, Science Symposium, "Frontiers in Synthesis and Assembly", DSM Central Research, Netherlands, December 2, 2011.
1033. "Ni-Catalyzed Cross-Coupling Reactions." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 7, 2012.

1034. "Ionic Liquids in Organic and Polymer Synthesis." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 7, 2012.
1035. "Supramolecular Polymerization." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 7, 2012.
1036. "Ionic Liquids in Organic and Polymer Synthesis." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 7, 2012.
1037. "Self-Assembly of Amphiphilic Janus Dendrimers in Water." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 8, 2012.
1038. "Ionic Liquids in Organic and Polymer Synthesis." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 8, 2012.
1039. "Living Radical Polymerization. Concept and Current Methodologies." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 8, 2012.
1040. "SETDT-LRP and SET-LRP." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 8, 2012.
1041. "Polymers with Complex Topology and Architecture by SETDT-LRP and SET-LRP." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 9, 2012.
1042. "VThy are Biological Systems Homochiral? " Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 9, 2012.
1043. "Supramolecular Helical Polymerization." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 9, 2012.
1044. "Self-Assembly of an Aquaporin Mimic." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 9, 2012.
1045. "Bioinspired Synthesis of Complex Molecular Systems." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, February 10, 2012.
1046. "Bioinspired Synthesis of Complex Molecular Systems." Invited Lecture, University of Halle, Halle, Germany, March 19, 2012.
1047. "New Synthetic Methods and Strategies for Organic, Macromolecular and Supramolecular Synthesis." Invited Lecture, Leibniz-institut fuer Polymerforschung, Dresden, Germany, March 21, 2012.
1048. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, University of Jena, Jena, Germany, March 22, 2012.
1049. "New Synthetic Methods and Strategies for Organic, Macromolecular and Supramolecular Synthesis." Invited Lecture, Leibniz-institut fuer Polymerforschung, Dresden, Germany, March 21, 2012.
1050. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, University of Jena, Jena, Germany, March 22, 2012.
1051. "Bioinspired Synthesis of Complex Functional Systems." Invited Lecture, Max-Planck Institute for Colloids and Interfaces.", Potsdam, Germany, March 23, 2012.
1052. "Bioinspired Synthesis of Complex Molecular Systems" Invited Lecture, Department of Chemistry, University of Texas, San Antonio, TX, April 12, 2012.
1053. "Bioinspired Synthesis of Complex Systems Including New Drug Delivery Devices." Plenary Lecture, 9th International Symposium on Polymer Therapeutics: From Laboratory to Clinical Practice, Centro de Investigación Principe Felipe, Valencia, Spain, May 28-30, 2012.

1054. "C.I.Simionescu: The Father of The Romanian School of Polymer Science" Plenary Lecture, The 5th International Symposium "Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 8-15, 2012.
1055. "Material Genome. Predicting Functions from First Principles." Plenary Lecture, The 5th International Symposium "Frontiers in Macromolecular and Supramolecular Science, Romanian Academy, Bucharest, Romania, June 8-15, 2012.
1056. "Bioinspired Synthesis of Bioinspired Complex Systems." Invited Lecture at the Inaugural Gordon Research Conference on "Bioinspired Materials", June 24-29, 2012, Davidson College, Davidson, NC.
1057. "New Synthetic Methods for Macromolecular and Supramolecular Synthesis." Plenary Lecture, MacroGroup UK International Conference on Polymer Synthesis & UKPCF International Conference on Polymer Colloids, Warwick 2012, University of Warwick, UK, July 9-12, 2012.
1058. "SET-I-RP in the Synthesis and Chemical Modification of Fluorinated Polymers", Invited Lecture, Compact Membrane Systems, Wilmington, DE, July 25, 2012.
1059. "Synthesis of perfectly bifunctional poly(methyl acrylate) via Cu(0)-catalyzed single-electron transfer living radical polymerization", N.H. Nguyen, M. E Levere, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-621.
1060. "Design and synthesis of amphiphilic Janus dendrimers and the prediction of the size and properties of dendriosomes from their lamella structure" P. Leowanawat, A.D. Hughes, D.A. Wilson, M. Peterca, A. Bertin, F.S. Bates, K.P. Davis, D.A. Hamer, D.H. Levine, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-747.
1061. "Solvent and ligand effects on Cu(0)-catalyzed single-electron transfer living radical polymerization" M.E. Levere, N.H. Nguyen, J. Kulis, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-622.
1062. "Comparison of aryl C-O based electrophiles in nickel catalyzed cross-coupling reactions with aryl neopentylglycolboronates" P. Leowanawat, N. Zhang, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-620.
1063. "Self-assembly and self-repairing of complex helical columns based on dendronized perylene bisimides" P. Leowanawat, E. Aqad, M.R. Imam, H.-J. Sun, M. Peterca, S.D. Hudson, G. Ungar, X. Zeng, R. Graf, H.W. Spiess, P.A. Heiney, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-749.
1064. "Dendronized perylene bisimides: Soft-crystal structure key to high charge mobility" T. Tadjiev, X. Zeng, M. Peterca, G. Ungar, V. Percec, P. Leowanawat, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. PMSE-89.
1065. "Nickel catalyzed cross-coupling of aryl and heteroaryl neopentylglycolboronates with aryl and heteroaryl mesylates and sulfamates at room temperature" P. Leowanawat, N. Zhang, N.; A.-M. Resmerita, B.M. Rosen, M. Safi, D.J. Hoffman, M.C. Fryberger, A. George, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-619.
1066. "Self-assembly of semifluorinated Janus dendrimers and dendronized polymers into supramolecular vesicular columns" M.R. Imam, V. Percec, Presented at and in Abstracts of Papers, 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012; American Chemical Society, 2012; p. ORGN-703.
1067. "Bioinspired Complex Systems with Biological Functions" Plenary Lecture Presented at the International Biodendrimer-2012 Symposium, Toledo, Spain, September 5 -7, 2013.

1068. "Self-Assembly of Amphiphilic Janus Dendrimers into Dendrimersomes and other Complex Architectures", Invited Lecture by S. Nummelin and V. Percec Presented at the International Biodendrimer-2012 Symposium, Toledo, Spain, September 5 -7, 2013.
1069. "Bioinspired Synthesis of Complex Molecular Systems", Plenary Lecture Presented at the Macromolecular Nanoobjects and Polymer Nanocomposites International Symposium, Moscow, Russia, October 21-26, 2012.
1070. "Bioinspired Complex Systems and Synthetic Methods" Invited Lecture, Liquid Crystal Institute, Kent State University, Kent, Ohio, November 21, 2013.
1071. "Material Genome with Nonbiologically Precise Building Blocks" Plenary Lecture, Materials Research Society Meeting, Boston, MA, November 26-30, 2012.
1072. "A Material Genome Approach to Complex Functional System" Invited lecture, Molecular Foundry, UC Berkeley, CA, December 17, 2012.
1073. "Bioinspired Complex Systems and Synthetic Methods" Invited Lecture, 2012 USA-Japan Seminar on Polymer Synthesis: From Monomers to Polymers to Materials to Applications, Santa Barbara, CA, November 30-December 5, 2012.
1074. "Bioinspired Complex Systems and Synthetic Methods" Invited Lecture, Makromolekulares Kolloquium, Freiburg, Germany, February 21-23, 2013.
1075. "A Tribute to C. I. Simionescu" Plenary Lecture, International Symposium "Frontiers in Macromolecular and Supramolecular Science", Romanian Academy, Bucharest, June 9, 2013.
1076. "Bioinspired Synthesis of Complex Molecular Systems" Plenary Lecture, International Symposium "Frontiers in Macromolecular and Supramolecular Science", Romanian Academy, Bucharest, June 9, 2013.
1077. "C. I. Simionescu a Visionary" Plenary Lecture, International Symposium "Frontiers in Macromolecular and Supramolecular Science", Romanian Academy, Iasi, June 10, 2013.
1078. "From Synthetic Macromolecules to Biological-Like Complex Systems" Plenary Lecture, International North Carolina at Raleigh, Raleigh, Department of Materials Science and Engineering, September 12, 2013. 1084. "Single Electron Transfer Reactions. Early Days, Fundamentals and Principles." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 22, 2013.
1079. "A Materials Genome Approach to Complex Systems" Plenary Lecture, "International Symposium on Contemporary Chemistry, Hotel Athénée Palace, Bucharest, June 14, 2013.
1080. "Complex Molecular Systems and Synthetic Methods", Invited Lecture, Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain, June 21, 2013.
1081. "Complex Molecular Systems and Synthetic Methods" Invited Lecture, University of Santiago de Compostela and Center for the Investigation of chemical Biology and Molecular Materials, Santiago de Compostela, Spain, June 28, 2013.
1082. "A Material Genome Approach to Complex Dendrimer Systems", Plenary Lecture and "Ramón Areces" Welcome Lecture, Ateneo de Madrid, The 8th International Dendrimer Symposium (IDS8), Madrid, Spain, June 23-27, 2013.
1083. "A Materials Genome Approach to Complex Systems and Synthetic Methods" Invited Lecture, University of North Carolina at Raleigh, Raleigh, Department of Materials Science and Engineering, September 12, 2013.
1084. "Single Electron Transfer Reactions. Early Days, Fundamentals and Principles." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 22, 2013.
1085. "Named Organic Reactions by Single Electron Transfer." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 22, 2013.
1086. "Single Electron Transfer Reaction in Materials and Polymer Synthesis." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 23, 2013.



1087. "Similarities and Differences Between ATRP vs SET-LRP." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 23, 2013.
1088. "SET-CRP. Principles and Applications." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 23, 2013.
1089. "Polymers with Complex Architecture by SET-LRP." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 23, 2013.
1090. "Synthesis of Dendrimers from Commercial Monomers by SET-LRP." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 24, 2013.
1091. "Nickel-Catalyzed Borylation and Cross-Coupling Reactions." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 24, 2013.
1092. "Mimics of Biological Membranes." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 24, 2013.
1093. "Organic, Materials, Supramolecular and Macromolecular Synthesis. Qvo Vadis?" Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 23, 2013.
1094. "A Material Genome Approach to Complex Systems and Synthetic Methods." Plenary Lecture, KAIJST Polymer Conference: From Synthesis to Properties and Applications, November 9 -13, 2013.
1095. "Dendrimersomes and Glycodendrimersomes as Mimics of Biological Membrane and Novel Drug Delivery Devices." Invited Lecture, Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), San Antonio, Texa, November 11, 2013.
1096. "A Materials Genome Approach to Complex Biological-I-like Systems and Synthetic Methods." Plenary Lecture, 13th Pacific Polymer Conference, Haohsiung, Taiwan, November 17-22, 2013.
1097. "New Synthetic Methods for Organic, Materials, Supramolecular and Macromolecular Synthesis." Invited Lecture, Australian Institute for Bioengineering and Nanotechnology, School of Chemistry & Molecular Biosciences, University of Queensland, Brisbane, Australia, November 26, 2013.
1098. "A Materials Genome Approach to Biological-Like Systems." Dillon Steele Lecture at the University of Queensland, Brisbane, Australia, November 27, 2013.
1099. "From Macromolecules to Biological-I-like Complex Molecular Systems." Invited Keynote Lecture, The 12th International Conference on Frontiers of Polymers and Advanced Materials, Auckland, Australia, December 8-13, 2013.
1100. "A Materials Genome Approach to Complex Chiral Systems." Plenary Lecture, International Symposium on Supramolecular Chemistry and Functional Materials 2013, RIKEN Center for Emergent Matter Science, The University of Tokyo, Japan, December 15-17, 2013.
1101. "Transforming Crystallization of Supramolecular Assemblies from Kinetically into Thermodynamically Controlled." Invited Lecture, Max Planck Institute for Polymer Research, Mainz, Germany, January 10, 2014.
1102. "Mediating Self-Assembly via a Novel Semifluorinated Building Block." Invited Lecture, Max Planck Institute for Polymer Research, Mainz, Germany, February 10, 2014.
1103. "A Material Genome Approach to Complex Systems." Invited Lecture, Max Planck Institute for Polymer Research, Mainz, Germany, March 3, 2014.
1104. "Mimics of Biological Membranes with Programmable Glycan Ligands." Invited Lecture, Institute of Physiological Chemistry, Ludwig-Maximilians-University, Munich, March 3, 2014.
1105. "Chiral Self-Sorting During Supramolecular Helical Organization of Hat-Shaped Dendronized CTV." Invited Lecture, Max Planck Institute for Polymer Research, Mainz, Germany, March 31, 2014.

1106. "Biological Membrane Mimics and Their Biomedical Applications." Invited Lecture, Medical School, University of Wuerzburg, Germany, May 14, 2014.
1107. "Why Are Complex Biological Systems Homochiral?" Invited Lecture, Institute of Organic Chemistry, University of Wuerzburg, Germany, May 15, 2014.
1108. "A Material Genome Approach to the Discovery of First Biological Principles?" Invited Lecture, University of Freiburg, Germany, May 19, 2014.
1109. "Frustrated Homochirality Directed Self-Assembly of New Architectures." Invited Lecture, Max Plank Institute for Polymer Research, Mainz, Germany, June 2, 2014.
1110. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands." Plenary Lecture, 5th International NanoBio Conference & 3rd International Conference on NanoBio Innovation, University of Queensland, St. Lucia, Brisbane, Australia, July 7-11, 2014.
1111. "Merging Organic, Supramolecular, Macromolecular and Biological Chemistries" Plenary Lecture, XXXIII National Romanian Chemistry Conference, Calimanesti-Caciulata, Romania, October 1-3, 2014.
1112. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands. A Materials Genome Approach." Invited Lecture, Department of Chemistry, University of California, Santa Cruz, CA, October 13, 2014.
1113. "Why Are Biological Systems Homochiral? 'I, Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 27, 2014.
1114. "Supramolecular Helical Polymerization of Homochiral, Heterochiral, Racemic and Achiral Building Blocks." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 27, 2014.
1115. "Mimicking Complex Biological Membranes." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 28, 2014.
1116. "Mimicking Programmable Glycan Ligands and their Biomedical Applications." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 28, 2014.
1117. "Single Electron Transfer. Principles and Applications in Organic Chemistry." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 28, 2014.
1118. "Single Electron Transfer Living Radical Polymerization" Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 29, 2014.
1119. "From Pd to Ni-Catalyzed Cross-Coupling Reactions via Mixed-Ligand and Precatalyst Concepts." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October, 29, 2014.
1120. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands. From Discovery to Prediction." Plenary Lecture, Scientific Advisory Board of Henkel Corporation, Bridgewater, NJ, November 13, 2014.
1121. "Mimicking Complex Biological Membranes and their Programmable Ligands. A Material Genome Approach." Plenary Lecture, Duplex Discussion Symposium: Towards Complex Adaptive Molecular Systems, Ringberg Castle, Bavaria, Germany, December 1, 2014.
1122. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands." Invited Lecture Presented at the International Symposium Dedicated to the 5th Anniversary of Polymer Chemistry, ACS Meeting Denver, CO, March 22, 2015.
1123. "Supramolecular Helical Polymerization of Homochiral, Heterochiral, Racemic, and Achiral Building Blocks." Invited Lecture Presented at the International Symposium dedicated to the ACS Award in Polymer Chemistry, ACS Meeting Denver, CO, March 25, 2015.
1124. "IRG-2: Bioinspired Assemblies" LRSM, April 20, 2015.

1125. "From Structure to Function *via* First Principles. A Materials Genome Approach. or From Organic Chemistry to Synthetic Biology *via* Catalysis, Supramolecular and Macromolecular Chemistry." DuPont-Penn Collaboration, April 22, 2015.
1126. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands. Discover and Predict. MRSEC Meetings, Spring, 2015.
1127. "Helical Supramolecular polymerization of Homochiral, Heterochiral, Racemic and Achiral Building Blocks." Opening Plenary Lecture at the Gordon Research Conference on Self-Assembly and Supramolecular Chemistry, Renaissance Tuscany Il Ciocco Resort, Italy, May 17 to May 21, 2015.
1128. "A Material Genome Approach to Mimics of Biological Membranes and their Programmable Glycan Ligands." Opening Plenary Lecture, Fourth International Symposium Frontiers in Polymer Science, May 20-22, 2015, Riva del Garda, Italy.
1129. "C. I. Simionescu, The Father of the Romanian School of Macromolecular Science." Plenary Lecture, Symposium on Supramolecular and Macromolecular Science, Romanian Academy, Bucharest, June 3, 2015.
1130. "Mimics of Complex Biological Membranes and their Glycan Ligands." Plenary Lecture for the ACS In Association with the Romanian International Chapter Cristofor Simionescu Award and Medal for Excellence in Macromolecular Chemistry", Romanian Academy, Bucharest, June 3, 2015.
1131. "The Origin and Evolution of the Symposium on Supramolecular and Macromolecular Science." Romanian Academy, Jasi, June 4-5, 2015.
1132. "A Sequence-Defined Approach to the Multivalency of Glycan Ligands." Romanian Academy, Jasi, June 4-5, 2015.
1133. "A Double Helix that Disregards Chirality." Max Planck Institute for Polymer Research, Mainz, Germany, July 2, 2015.
1134. "Can Fluorinated Building Blocks Be Environmentally Friendly?" Max Planck Institute for Polymer Research, Mainz, Germany, July 16, 2015.
1135. "New Concepts in Organic, Supramolecular and Macromolecular Chemistry by Using Environmentally Friendly Fluorinated Compounds." Plenary Lecture, 21<sup>st</sup> International Symposium of Fluorine Chemistry & the 6<sup>th</sup> International Symposium on Fluorous Technologies (21<sup>st</sup> ISFC & ISOFT'15), Como, Italy, August 23-28, 2015.
1136. "New Functions and Products via Supramolecular Chirality. A Neglected Discipline of Chemical Sciences?" Plenary Lecture, Henkel Scientific Advisory Board Meeting and Symposium, Rocky Hill, CT, September 3-4, 2015.
1137. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands." Max Planck Society Symposium on Glycoproteins and Glycolipids. Synthesis, Analysis and Functions." Opening Plenary Lecture, Ringberg Castle, Bavaria, Germany, September 7-11, 2015.
1138. "Are Synthetic Biological Membranes Possible?" Invited Lecture, Laboratory for Surface Modification, Institute for Advanced Materials, Devices and Nanotechnology, Rutgers University, Piscataway, NJ, September 17, 2015.
1139. "Mimicking Biological Membranes and their Programmable Glycan Ligands." The inaugural Aldrich lecture at MIT, September 23, 2015.
1140. "Programming Complex Biological Membranes and their Glycan with Sequence-Defined Janus Glycodendrimersomes." Plenary Lecture, Kármán Conference "From Molecular Materials to Complex Adaptive Molecular Systems." Vaalsbroek Castle, Netherlands, October 11-15, 2015.
1141. "New Developments in Organic Macromolecular and Supramolecular Chemistry." Royal Institute of Technology, Stockholm, Sweden, October 22, 2015.
1142. "Bioinspired Synthesis of Complex Systems." Invited Lecture, Uppsala University, Ångström Laboratory, Uppsala, Sweden, October 26, 2015.

1143. "Programming Glycan Ligands of Biological Membrane Mimics via Sequence-Defined Janus Glycodendrimers." Invited Lecture, University of Colorado, Boulder, Colorado, December 7, 2015.
1144. "Mimicking Complex Biological Membranes and their Programmable Glycan Ligands." Honorary Plenary Lecture Presented at the First Annual Symposium of the Center for Soft Matter Science and Engineering, Peking University, Beijing, China, December 12, 2015.
1145. "Searching for Thermodynamically Controlled Supramolecular Helical Crystallization." Invited Lecture, Max Planck Institute for Polymer Research, Mainz, Germany, February 29, 2016.
1146. "Programming Biological Membranes and their Glycan with Sequence Defined Glycodendrimers." Invited Lecture, Department of Chemistry, Tel Aviv University, March 6, 2016.
1147. "Precatalyst and Mixed-Ligand Concepts in Nickel-Catalyzed Borylation and Suzuki Cross-Coupling." Invited Lecture, Department of Chemistry, Ben-Gurion University of Negev, Beer Sheva, Israel, March 7, 2016.
1148. "A Material Genome Approach to Discover and Predict." Invited Lecture, Ben-Gurion University of the Negev, Beer Sheva, Israel March 7, 2016.
1149. "Bioinspires Synthesis of Complex Molecular Systems." Invited Lecture, Department of Chemistry, Ben-Gurion University of Negev, Beer Sheva, Israel, March 7, 2016.
1150. "Mimics of Biological Membranes and Protocells." Invited Lecture, Weizmann Institute of Science, Rehovot, Israel, March 8, 2016.
1151. "A Material Genome Approach to Bioactive Cell-Like Hybrids Coassembled from Glycodendrimersomes and Bacterial Membranes." Invited Lecture, Department of Chemistry, Ben-Gurion University of Negev, Beer Sheva, Israel, March 8, 2016.
1152. "New Developments in SET-LRP. Will it Make it to Industrial Scale?" Invited Lecture, Department of Chemistry, Ben-Gurion University of Negev, Beer Sheva, Israel, March 8, 2016.
1153. "Helical Supramolecular Polymerization of Homochiral, Heterochiral, Racemic and Chiral Building Blocks." Invited Lecture, Ben-Gurion University of the Negev, Beer Sheva, Israel, March 9, 2016.
1154. "A Double Helix that Disregards Chirality." Invited Lecture, Ben-Gurion University of the Negev, March 9, 2016.
1155. "Self-Assembling Dendrons and Dendrimers. From Discovery to a Nanoscience Periodic Table." Invited Lecture, Ben-Gurion University of Negev, Beer Sheva, Israel, March 9, 2016.
1156. "Fluorous Phase in Self-Assembly." Invited Lecture, Ben-Gurion University of the Negev, Beer Sheva, Israel, March 9, 2016.
1157. "Complex Self-Assembling Building Blocks by Nickel-Catalyzed Suzuki Cross-Coupling of Unreactive Aryl Electrophiles and Nucleophiles." Invited Lecture, Ben-Gurion University of Negev, Beer Sheva, Israel, March 10, 2016.
1158. "Protocells." Invited Lecture, Department of Chemistry, The Hebrew University of Jerusalem, Jerusalem, March 10, 2016.
1159. "A Materials Genome Approach to Mimics of Biological membranes and their Programmable Glycan Ligands." Plenary Lecture, Institute for Molecules and Materials, Radboud University, Nijmegen, The Netherlands, April 5, 2016.
1160. "Evocation of Cristofor Simionescu." Plenary Lecture, International Symposium "Frontiers in Macromolecular and Supramolecular Science." Romanian Academy, Bucharest, May 31, 2016.
1161. "Helical Supramolecular Polymerization of Homochiral, Heterochiral, Racemic and Chiral Building Blocks." Plenary Lecture, International Symposium "Frontiers in Macromolecular and Supramolecular Science." Romanian Academy, Bucharest, May 31, 2016.

1162. “Cristofor Simionescu the Father of the Romanian School of Macromolecular Science.” Plenary Lecture, International Symposium “Frontiers in Macromolecular and Supramolecular Science.” Romanian Academy, Iasi, June 1, 2016.
1163. “New Synthetic Methods for Organic, Supramolecular and Macromolecular Chemistry.” Plenary Lecture, International Symposium “Frontiers in Macromolecular and Supramolecular Science.” Romanian Academy, Iasi, June 1, 2016.
1164. “Combining First Principles with Materials Genome to Design Complex Systems.” Plenary Lecture Presented for the Acceptance of Doctor Honoris Causa from Polytechnic University, Bucharest, June 6, 2016.
1165. “Reprogrammed Cell-Like Assemblies from Sequence-Defined Glycodendrimers and Natural Cells.” Plenary Lecture, 2016 Japan-US Seminar on Polymer Synthesis: Polymer Synthesis for a Sustainable Future, Niseko, Hokkaido, Japan, June 26, 2016.
1166. “A Materials Genome Approach to Complex Systems. Programming Order via Supramolecular Helical Polymerization.” Plenary Lecture, Warwick Polymers 2016. 2016 International Conference on Polymer Chemistry, July 11-14, 2016, University of Warwick, UK.
1167. “A Materials Genome Approach to Discover and Predict Hierarchical Structures.” Plenary Lecture, International Symposium “A Materials Genome Approach to Structure and Function, ACS National Meeting, Philadelphia, August 20-25, 2016.
1168. “Why Are Biological System Homochiral?” Plenary Lecture, International Symposium “A Materials Genome Approach to Structure and Function, ACS National Meeting, Philadelphia, August 20-25, 2016.
1169. “Programming Biological Membrane Mimics and their Glycan with Self-Assembling Janus Glycodendrimersomes?” Plenary Lecture, International Symposium “A Materials Genome Approach to Structure and Function, ACS National Meeting, Philadelphia, August 20-25, 2016.
1170. “Sequence-Defined Janus glycodendrimers Self-Assembled into Unilamellar or Onion-Like Glycodendrimersomes.” Plenary Lecture, International Symposium “A Materials Genome Approach to Structure and Function, ACS National Meeting, Philadelphia, August 20-25, 2016.
1171. B. Partridge, C. Roche, H.-J. Sun, P. Leowanawat, F. Akaoka, D. Sahoo, M. Peterca, D. Wilson, M. Prendergast, X. Zeng, G. Ungar, P. Heiney, V. Percec. “Mechanisms for Supramolecular Helical Polymerization into Crystalline Arrays of Chiral Columns.” ACS National Meeting, Philadelphia, August 20-25, 2016.
1172. J. Malineni, R. Jezorek, N. Zhang, V. Percec. “Ni(II)Cl(1-naphthyl)PCy<sub>2</sub> as an Indefinitely Air-Stable Precatalyst for Quantitative Suzuki-Miyaura Cross-Coupling of Unreactive Aryl Electrophiles.” ACS National Meeting, Philadelphia, August 20-25, 2016.
1173. B. Partridge, P. Leowanawat, M-S. Ho, M. Peterca, H.J. Sun, D. Sahoo, Y.C. Wu, E. Aqad, M. Imam, R. Graf, H. Spiess, X. Zeng, G. Ungar, P. Heiney, V. Percec. “Thermodynamically Controlled Crystallization of Self-Organizing Supramolecular Assemblies.” ACS National Meeting, Philadelphia, August 20-25, 2016.
1174. C. Roche, B. Partridge, H.-J. Sun, P. Leowanawat, F. Araoka, M. Peterca, D. Wilson, M. Prendergast, X. Zeng, G. Ungar, P. Heiney, V. Percec. “Deracemization of Supramolecular Assemblies in Bulk Crystal State.” ACS National Meeting, Philadelphia, August 20-25, 2016.
1175. Q. Xiao, S. Zhang, E. Wang, S. Sherman, R.-O. Moussodia, M. Peterca, B. Partridge, A. Muncan, A. R. Vicente, D. Williams, D. Hammer, Y. Chen, D. Pochan, S. Andre, S. Vertesy, H.-J. Gabius, M. Klein, V. Percec. “Biomimicking Membranes from Janus Glycodendrimers Reveal Sugar-Lectin Recognition.” ACS National Meeting, Philadelphia, August 20-25, 2016.
1176. Q. Xiao, S. Yadavalli, S. Zhang, S. Sherman, E. Fiorin, L. da Silva, D. Wilson, D. Hammer, S. Andre, H.-J. Gabius, M. Klein, M. Goulian, V. Percec. “Bioactive Cell-Like Hybrids Coassembled from (Glyco)Dendrimersomes with Bacterial Membranes. ACS National Meeting, Philadelphia, August 20-25, 2016.
1177. D. Jiskariani, S. Grama, C. MacDermaid, S. Gillani, M. Divar, R.-O. Moussodia, P. Leowanawat, A. B. Camacho, M. Klein, V. Percec. “Divergent Synthesis of Four Generations of Aliphatic Polyamide Dendrimers.” ACS National Meeting, Philadelphia, August 20-25, 2016.

1178. S. Grama, Y. Timsina, D. Jiskariani, C. MacDermaid, S. Gillani, M. Divar, R.-O. Moussodia, P. Leowanaweat, A. B. Camacho, M. Klein, V. Percec. "Divergent-Convergent Strategy for the Synthesis of Aliphatic Polyamide Dendrimers." ACS National Meeting, Philadelphia, August 20-25, 2016.
1179. M. Enayati, R. Jezorek, M. Monteiro, V. Percec. "Test Tube Approach to SET-LRP of Hydrophobic Acrylates in Multi-Phase Systems." ACS National Meeting, Philadelphia, August 20-25, 2016.
1180. "A Materials Genome Approach to Discover and Predict Hierarchical Structures and Functions." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 26, 2016.
1181. "New Developments in Organic, Supramolecular and Macromolecular Chemistry." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 27, 2016.
1182. "Precatalysts and Mixed-Ligand Concepts in Ni-Catalyzed Borylation and Suzuki Cross-Coupling." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 31, 2016.
1183. "Interfacial SET-LRP." Invited Lecture, Royal Institute of Technology, Stockholm, Sweden, October 31, 2016.
1184. "A Materials Genome Approach to Discover and Predict Hierarchical Structures and Functions." Invited Lecture, University of Aachen and Leibniz-Institute for Interactive Materials, Aachen, Germany, November 14, 2016.
1185. "Programming Biological Membrane Mimics and their Glycan with Sequence-Defined Janus Glycodendrimers." Plenary Lecture, Biogel Symposium, University of Aachen, Leibniz-Institute for Interactive Materials, Aachen, Germany, November 15, 2016.
1186. "Supramoleculr Memory Effect" Invited Lecture MPI Mainz, Germany, April 21, 2017.
1187. "Supramolecular Homochirality from Achiral Building Blocks." Invited Lecture MPI Mainz, Germany, April 21, 2017.
1188. "Encapsulation and Release into and from Supramolecular Assemblies." Invited Lecture MPI Mainz, Germany, May 26, 2017.
1189. "C.I. Simionescu Pioneered the Romanian School of Macromolecular Science," Romanian Academy, Bucharest, Romania, June 12, 2017.
1190. "Programming Protocells with Sequence-Defined Self-Organizing Building Blocks," Romanian Academy, Bucharest, Romania, June 12, 2017.
1191. "The Father of the Romanian School of Macromolecular Science", Romanian Academy, Iasi, Romania, June 13, 2017.
1192. "Memory in Supramolecular Assemblies", Romanian Academy, Iasi, Romania, June 14, 2017.
1193. "The Cogwheel Model of Self-Assembly Disregards Chirality" MPI for Polymers, Mainz, Germany, August 16, 2017.
1194. "Supramolecular Orientational Memory: A New Route to Complex Supramolecular Architectures" ACS Meeting, Wahington DC, August, 21, 2017
1195. "Self-Interrupted Synthesis of Sterically Hindered Aliphatic Polyamide Dendrimers." ACS Meeting, Washington DC, August 22, 2017
1196. "Reconstructing the Glycan of Biological Membranes with Sequence-Defined Assemblies." Radboud University, Nijmegen, Netherlands, September 12, 2017
1197. "Are All Supramolecular Assemblies Chiral?" Eindhoven TU, Eindhoven, Netherlands, September 13, 2017.
1198. "Programming Biological Membranes, Hybrid cells and Protocell Mimics as well as their Glycan with Sequence-Defined Janus Glycodendrimers" Plenary Lecture, International Symposium on Supramolecular Chemistry, Jilin University, Changchun, China, September 17-19, 2017.

1199. "New Developments in Supramolecular Dendrimers." Plenary Lecture, International Dendrimer Symposium, Moscow, October 1-4, 2017.
1200. "Programming the Multivalency of Glycan Ligands of Biological Membrane Mimics with Sequence-Defined Janus Glycodendrimers." Plenary Lecture, The Fourth International Symposium "Multivalent Interactions of Pathogens with Biological Surfaces" Free University Berlin, Germany, October 4-6, 2017.
1201. "Programming Biological Membranes and Protocell Mimics with Sequence-Defined Janus Glycodendrimers" Plenary Lecture, International Symposium on "Bioinspired Macromolecular Systems" Aveiro, Portugal, November 6-8, 2017.
1202. "Functions via Supramolecular Systems that Disregard Chirality?" MPI for Polymers, Mainz, December 15, 2017.
1203. "Designing Complex Chiral Supramolecular Systems." Plenary Lecture, Max Planck-Ringberg Castle Symposium 2017 on 4D Molecular Systems Engineering, December 17-22, 2017.
1204. "Are All Supramolecular Assemblies Chiral and Some of them Even Homochiral?", Invited Lecture, Shanghai Laboratory of Green Chemistry and Chemical Processes, Department of Chemistry, East China Normal University, Shanghai, March 26, 2018.
1205. "Programming Biological Membrane and Protocell Mimics with Sequence-Defined Janus Glycodendrimers." Master Distinguished Lecture, Shanghai Jiao Tong University, March 26, 2018.
1206. "Glycoconjugates of Cell Membrane Mimics Cluster into Nanodomains with Increased Activity." Plenary Lecture 2<sup>nd</sup> Theodore von Karman-Discussion Conference on Materials for Life, "Bioinspired and Biomimetic Hydrogels" Kardinal Schulte Haus, Bergisch Gladbach, Germany, April 15-18, 2018.