

## Arthur J. Epstein

### Seminars and Colloquia

1. *Metal-Insulator Transition in Organic Systems*, **Department of Physics, Hebrew University**, Jerusalem, Israel, 20 October 1972.
2. *Conducting One-Dimensional Organic Salts*, **Industrial Affiliates Program in Physical Electronics, University of Illinois**, Urbana, Illinois, 18-19 April 1974.
3. *One-Dimensional Conductors: A New Class of Materials*, **University of Rochester, Department of Electrical Engineering**, Rochester, New York, 19 November 1974.
4. *Charge Transfer, Electrostatic Interactions and Crystal Binding in Anisotropic Conductors*, **Joint Physics-Chemistry Colloquium, Florida Atlantic University**, Boca Raton, Florida, 9 April 1976.
5. *Electrical Conductivity of (NMP)(TCNQ) and Related Compounds*, **Special Solid State Physics Seminar, University of California at Davis**, Davis, California, 30 March 1977.
6. *Electrical Conductivity of (NMP)(TCNQ) and Related Systems*, **Special Solid State Physics Seminar, Stanford University**, Stanford, California, 31 March 1977.
7. *Electrical Conductivity of (NMP)(TCNQ) and Related Materials*, **Solid State Physics Seminar, The Ohio State University**, Columbus, Ohio, 28 April 1977.
8. *Electrical Conductivity of (NMP)(TCNQ) and Related Systems*, **Solid State/Low Temperature Physics Seminar, Cornell University**, Ithaca, New York, 3 May 1977.
9. *Mobility, Band Filling and Disorder in Molecular Conductors*, **Department of Physics and Materials Research Laboratory, Pennsylvania State University**, University Park, Pennsylvania, 17 October 1977.
10. *Industrial Research: A Perspective*, **Department of Physics and Materials Research Laboratory, Pennsylvania State University**, University Park, Pennsylvania, 18 October 1977.
11. *Mobility, Disorder, and Bandfilling in Molecular Conductors*, **Rockwell Science Center**, Thousand Oaks, California, 3 January 1978.

12. *Mobility, Disorder, and Band Filling in Molecular Conductors*, **Corporate and Government Research Laboratories Seminar, Exxon Research and Engineering Company**, Linden, New Jersey, 15 March 1978.
13. *Molecular Conductors with Variable Charge Transfer-Determining the Roles of Mobility and Disorder*, **Chemistry Department Seminar, State University of New York at Buffalo**, Buffalo, New York, 27 September 1978.
14. A.J. Epstein and P.M. Chaikin, *Magnetothermopower of  $Qn(TCNQ)_2$ : Experimental Evidence for Large Coulomb Interactions in Organic Conductors*, **Francis Bitter National Magnet Laboratory, Massachusetts Institute of Technology**, Cambridge, Massachusetts, 14 December 1978.
15. *Role of Mobility, Disorder and Band Filling in Molecular Conductors*, **Naval Research Laboratory Colloquium**, Washington, DC, 18 December 1978.
16. *Highly Conducting Molecular Solids:  $(NMP)(TCNQ)$  as a Model System*, **Department of Physics, University of Maryland**, College Park, Maryland, 25 April 1979.
17. *Xerography and Applications of Physics*, **Department of Physics, University of Maryland**, College Park, Maryland, 26 April 1979.
18. *Magnetic Studies of Iodine Doped Polyacetylene: A Two Phase System*, **Solid State Physics Seminar, Ohio State University**, Columbus, Ohio, 17 January 1980.
19. *Conducting One-Dimensional Systems: Frontiers in Solid State Science*, **Physical Chemistry Seminar, University of Toronto**, Toronto, Ontario, Canada, 6 March 1980.
20. *Metallic Polymers: Magnetic Studies of Doped Polyacetylene*, **Physics Department Colloquium, State University of New York at Buffalo**, Buffalo, New York, 10 April 1980.
21. *Quasi-One-Dimensional Metals: Frontiers in Solid State Science*, **Department of Physics Colloquium, Rochester Institute of Technology**, Rochester, New York, 17 April 1980.
22.  *$(NMP)_x(Phen)_{1-x}(TCNQ)$ : Probing Two Band 1-D Conductors or What Happened to Large  $U$ ?*, **Solid State Seminar, Université de Paris-Sud**, Orsay, France, 11 June 1980.
23. *Transport and Magnetic Studies of Metallic Polyacetylene*, Seminar, **Thomson-CSF, Laboratoire Central de Recherche**, Orsay, France, 19 June 1980.

24. *Transport and Magnetic Studies of Metallic Polymers: I<sub>2</sub> Doped Polyacetylene*, **Seminar, Institute of Paul Pascal, Université de Bordeaux**, Talence, France, 23 June 1980.
25. *Iodine Doped Polyacetylene: The Effects of Disorder and Nonuniform Doping*, **Joint Seminar, Chemistry/Physics Department, Brooklyn College of the City University of New York**, Brooklyn, New York, 5 November 1980.
26. *Nonuniform Doping and Disorder in Conducting Polymers: Iodine Doped Polyacetylene*, **Colloquium, Department of Physics, City College of the City University of New York**, , New York, New York, 12 November 1980.
27. *Physicists, Xerox, and Xerography: The Opportunities for Physicists in Industry*, **Seminar, Department of Physics, City College of the City University of New York**, New York, New York, 13 November 1980.
28. *Transport and Magnetic Studies of Polyacetylene: The Role of Solitons*, **Joint Chemistry-Physics Seminar, Technical University of Warsaw**, Warsaw, Poland, 17 June 1981.
29. *Transport and Magnetic Properties of Polyacetylene: The Role of Solitons*, **Université Paris-Sud**, Orsay, France, 25 June 1981.
30. *Charge Transport in Insulating and Metallic Polyacetylene: The Role of Solitons*, **Brown-Boveri Research Center**, Baden, Switzerland, 29 June 1981.
31. *Magnetic and Related Studies of Polyacetylene: The Role of Solitons*, **RCA Laboratories**, Zurich, Switzerland, 30 June 1981.
32. *Transport and Magnetic Studies of Polyacetylene*, **Institut für Makromolekulare Chemie der Universität Freiburg**, Freiburg, West Germany, 1 July 1981.
33. *Transport and Magnetic Studies of Polyacetylene: The Role of Solitons*, **Max-Planck-Institute für Festkörperforschung**, Stuttgart, West Germany, 2 July 1981.
34. *Transport and Magnetic Studies of Polyacetylene: The Role of Solitons*, **Solid State Physics Seminar, Cornell University**, Ithaca, New York, 14 July 1981.
35. *Transport and Magnetic Studies of Polyacetylene: The Role of Solitons*, **Colloquium, Department of Physics, University of Florida**, Gainesville, Florida, 24 September 1981.
36. *Charge Transport Studies of Polyacetylene*, **Joint Colloquium, Department of Electrical and Computer Engineering and Chemical Engineering and Materials Science, Syracuse University**, Syracuse, New York, 9 October 1981.

37. *Polyacetylene I: Overview of Phenomena and the Role of Solitons*, **Condensed Matter II Special Seminar, Department of Physics and Astronomy, University of Rochester**, Rochester, New York, 18 January 1982.
38. *Polyacetylene II: Magnetic and Optical Phenomena*, **Condensed Matter II Special Seminar, Department of Physics and Astronomy, University of Rochester**, Rochester, New York, 26 January 1982.
39. *Polyacetylene III: Transport Phenomena*, **Condensed Matter II Special Seminar, Department of Physics and Astronomy, University of Rochester**, Rochester, New York, 28 January 1982.
40. *Conductivity and Magnetic Studies of Polyacetylene-Role of Solitons*, **Seminar, Department of Physics, State University of New York at Buffalo**, Buffalo, New York, 16 March 1982.
41. *Conducting Polymers-Polyacetylene as a Model System*, **Seminar, Occidental Research Corporation**, Irvine, California, 25 March 1982.
42. *Charge Transport and Magnetic Studies of Polyacetylene: The Role of Solitons*, **Seminar, Department of Physics, Brookhaven National Laboratory**, Upton, New York, 22 April 1982.
43. *Conducting Polymers*, **Chemistry Department Seminar, Rochester Institute of Technology**, Rochester, New York, 6 January 1983.
44. *Bandfilling, Coulomb Correlation and Solitons in a 1-D Organic Charge Transfer Crystal*, **Low Temperature Physics Seminar, University of Illinois**, Urbana, Illinois, 1 March 1983.
45. *An Electron's Journey Across a Conducting Polymer, or, Escape from a Soliton*, **Solid State Physics Seminar, University of Florida**, Gainesville, Florida, 5 April 1983.
46. *Charge Transport Mechanism in Conducting Polymers*, **British Petroleum Research Center**, Middlesex, England, 18 July 1983.
47. *Frequency Dependent Conductivity of Polyacetylenes*, **Seminar, Université des Sciences et Technique du Languedoc**, Montpellier, France, 20 July 1983.
48. *Solitons and Nearly Commensurate Charge Transfer Crystals*, **Seminar, Sandia National Laboratory**, Albuquerque, New Mexico, 26 August 1983.
49. *Do Solitons Matter in Organic Conductors?*, **Seminar, Central Research Department, E.I. DuPont de Nemours Company**, Wilmington, Delaware, 17 October 1983.

50. *Solitons, Polarons, and Other Excitations in Conducting Polymers*, **Seminar, Dept. of Physics and Measurement Technology, Linkoping University**, Linkoping, Sweden, 12 December 1983.
51. *Are Solitons Important for Conductivity in Conducting Polymers?*, **Seminar, Dept. of Physics and Measurement Technology, Linkoping University**, Linkoping, Sweden, 12 December 1983.
52. *Are Solitons Important in Polyacetylene?*, **Colloquium, Department of Physics and Materials Research Laboratory, The Ohio State University**, Columbus, Ohio, 17 January 1984.
53. *Solitons and Conductivity in Conducting Polymers?*, **Solid State Seminar, Dept. of Physics, University of Rochester**, Rochester, New York, 14 February 1984.
54. *Do Solitons Matter in Conducting Polymers?*, **Seminar, Bell Laboratories**, Murray Hill, New Jersey, 1 March 1984.
55. *Are Solitons Important in Conducting Polymers?*, **Seminar, Laboratory for Laser Energetics, University of Rochester**, Rochester, New York, 9 March 1984.
56. *Are Solitons Important in Conducting Polymers?*, **Seminar, Department of Physics, Polytechnic Institute of New York**, Brooklyn, New York, 25 April 1984.
57. *Electronic Organic Materials, or, Is There Life After Silicon?.*, **Colloquium, Department of Chemistry, The Ohio State University**, Columbus, Ohio, 17 September 1984.
58. *Importance of Disorder in Doped Polyacetylene*, **Solid State Seminar, University of Florida**, Gainesville, Florida, 10 October 1984.
59. *Electronic Organic Materials, or, Is There Life After Silicon*, **Frontiers of Science Lecture, University of Florida**, Gainesville, Florida, 10 October 1984.
60. *Do Solitons Matter in Conducting Polymers?*, **Seminar, Department of Physics, Ben-Gurion University of the Negev**, Beersheba, Israel, 27 December 1984.
61. *Are Solitons Important in Conducting Polymers?*, **Seminar, Department of Physics, Technion**, Haifa, Israel, 1 January 1985.
62. *Research in Electronic Organic and Polymeric Materials*, **Seminar, Division of Materials Research, National Science Foundation**, Washington, DC, 9 July 1985.

63. *Solitons, Peierls Transitions and Disorder in One-Dimensional Conductors*, **Colloquium, Departments of Physics and Chemistry, University of Sherbrooke**, Sherbrooke, Quebec, Canada, 12 September 1986.
64. *Are Solitons Important for Conducting Polymers?*, **Colloquium, Department of Physics, Case Western Reserve University**, Cleveland, Ohio, 6 February 1986.
65. *Electronic and Magnetic Organic Materials, or, Is There Life After Silicon?*, **Seminar, Standard Oil of Ohio**, Warrensville, Ohio, 7 February 1986.
66. *Challenge of Electronic Polymers*, **Colloquium, Department of Physics, Ohio University**, Athens, Ohio, 2 May 1986.
67. *Mechanisms of Conduction in Polymeric Systems*, **Colloquium, Department of Physics, Nanjing University**, Nanjing, The People's Republic of China, 16 June 1986.
68. *Conducting Polymers and Molecular Magnets: New Frontiers for Science*, **Colloquium, Nanjing Institute of Technology of Technology**, Nanjing, The People's Republic of China, 17 June 1986.
69. *Conducting Polymers and Molecular Magnetism*, **Colloquium, Department of Physics, Fudan University**, Shanghai, The People's Republic of China, 19 June 1986.
70. *Insulator-to-Metal Transition in Polyaniline: A Composite Conducting Polymer*, **Seminar Xerox Webster Research Center**, Webster, New York, 16 October 1986.
71. *Semiconducting Polymers in Polymeric Semiconductors: Conducting Polymers as Examples of 1-Dimensional Systems*, **Colloquium, Université Paris-Sud, Laboratoire de Physique des Solides**, Orsay, France, 13 November 1986.
72. *Insulator-to-Metal Transition in Polyaniline*, **Seminar, Allied-Signal Corporation**, Morristown, New Jersey, 26 November 1986.
73. *Insulator-to-Metal Transition in Polyaniline: Role of Polaron Band Formation*, **Seminar, University of Illinois, Department of Physics**, Urbana, Illinois, 12 December 1986.
74. *Electronic Phenomena in Polyaniline*, **Seminar, BASF AG**, Ludwigshafen, West Germany, 6 July 1987.
75. *Recent Developments in High  $T_c$  Superconductors: Structure, Composites, Photoinduced Excitations,...*, **Seminar, E.I. du Pont de Nemours and Company, Inc.**, Wilmington, Delaware, 22 October 1987.

76. *Polaron and Bipolaron Defects in Polymers: Polyaniline*, **Colloquium, University of Kentucky**, Lexington, Kentucky, 30 October 1987.
77. *Frontiers in Polymers: Polaron Defects in Polyaniline*, **Visiting Scholars/Sigma Xi Lecture, Departments of Physics and Chemistry, University of Rhode Island**, Kingston, Rhode Island, 11 December 1987.
78. *Nonlinear Optical Phenomena in Polymers: Polyaniline*, **Seminar, Battelle Memorial Institute**, Columbus, Ohio, 22 January 1988.
79. *New Concepts in Conducting Polymers: Polyaniline*, **Colloquium, Ford Research Laboratories**, Dearborn, Michigan, 18 February 1988.
80. *Charge Conduction Mechanisms in Conducting Polymers*, **Seminar, Department of Physics and Measurement Technology, Linköping University**, Linköping, Sweden, 20 April 1988.
81. *Magnetic Field and Photoinduced Defects in Ceramic Superconductors*, **Seminar, Department of Physics and Measurement Technology, Linköping University**, Linköping, Sweden, 20 April 1988.
82. *Stable Defects in Ceramic Superconductors*, **Seminar, Department of Physics and Department of Chemistry, Chalmers Institute of Technology**, Gothenberg, Sweden, 21 April 1988.
83. *Novel Electronic Phenomena in Polymers: Polyaniline*, **Colloquium, Department of Physics, State University of New York**, Buffalo, New York, 3 November 1988.
84. *High Magnetic Field and Photoinduced Absorption Studies of  $\text{La}_2\text{CuO}_4$  and  $\text{Y}_1\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$ : Role of Defects*, **Seminar, Texas Center for Superconductivity at the University of Houston**, Houston, Texas, 17 February 1989.
85. *New Physics in Electronic Polymers: Polyaniline*, **Solid State Seminar, Department of Physics, Technion-Israel Institute of Technology**, Haifa, Israel, 27 June 1989.
86. *Charge Conduction in Electronic Polymers*, **MITI Conducting Polymer Project**, Tokyo, Japan, 10 November 1989.
87. *One-Dimensional Ferromagnetism*, **Institute for Molecular Science**, Okazaki, Japan, 16 November 1989.
88. *Massive Polarons and Ring Rotation in Polyaniline*, **Seminar, Department of Physics, University of Florida**, Gainesville, Florida, 22 December 1989.

89. *New Concepts in Electronic Polymers: Polyaniline*, **Macromolecules Science Colloquium, Case Western Reserve University**, Cleveland, Ohio, 19 January 1990.
90. *Polyaniline: New Opportunities for Chemistry, Physics, and Technology in Conducting Polymers*, **Seminar, U.S. Naval Weapons Center**, China Lake, California, 16 March 1990.
91. *Polyaniline: New Opportunities for Chemistry, Physics, and Technology in Conducting Polymers*, **Seminar, Xerox Webster Research Center**, Webster, New York, 19 March 1990.
92. *Polyaniline: New Opportunities for Chemistry, Physics, and Technology in Conducting Polymers*, **Seminar, Department of Chemical Engineering, University of Rochester**, Rochester, New York, 20 March 1990.
93. *Ring-a-Round a Polymer: New Physics in Polyaniline*, **Colloquium, Department of Physics and Liquid Crystal Institute, Kent State University**, Kent, Ohio, 28 November 1990.
94. *Three-Dimensionality of "Metallic" States in Conducting Polymers: Polyaniline*, **Colloquium, Department of Physics, Princeton University**, Princeton, New Jersey, 18 February 1991.
95. *3-Dimensional Charge Delocalization in Polyaniline*, **Seminar, Department of Chemistry, Massachusetts Institute of Technology**, Cambridge, Massachusetts, 24 October 1991.
96. *Molecular and Polymeric Magnetism: From Low to High  $T_C$* , **Joint Harvard/MIT Physical Chemistry Colloquium**, Cambridge, Massachusetts, 24 October 1991.
97. *Intrinsically Conducting Polymers and Developing Technologies*, **Hexcel Corporate Research Center**, Dublin, California, 27 April 1992.
98. *Molecular and Polymer Based Magnets: A New Frontier*, **Colloquium, Laboratoire de Physique des Solides, Université Paris Sud**, Orsay, France, 22 June 1992.
99. *High Conductivity and Electrochemical Response of Polyaniline: Fundamental Science and Developing Technology*, **Seminar, Thomas J. Watson Research Center-IBM**, Yorktown Heights, New York, November 16, 1992.
100. *Molecular Based Magnets: Dimensionality, Disorder, and High  $T_C$  in a New Class of Materials*, **Colloquium, Department of Physics, University of Miami**, Miami, Florida, 11 December 1992.



101. A.J. Epstein, *Coupled Mesoscopic Metallic State In Polyaniline*, **Special Solid State Seminar, Technion - Israel Institute of Technology**, Tel Aviv, Israel, 12 May 1993.
102. A.J. Epstein, *Mesoscopy Metallic Polymers and Novel Technologies*, **Seminar, Xerox Webster Research Center**, Webster, New York, 18 June 1993.
103. *Conducting Polymers: From 1-D Chains to a 3-D Metal*, **Colloquium, Department of Physics, University of Miami**, Miami, Florida, 21 January 1994.
104. The Metallic State of Conducting Polymers, **Seminar, Korean Institute of Science and Technology**, Seoul, Korea, 2 August 1994.
105. A.J. Epstein, *Polymer Metals- At Last*, **Joint Seminar, Department of Physics and Department of Chemistry, Bowling Green State University**, Bowling Green, Ohio, 31 August 1994.
106. *The Drüde Metallic State of Conducting Polymers*, **Colloquium, Department of Physics, University of Utah**, Salt Lake City, Utah, 20 October 1994.
107. *Molecule-Based Magnets: From 4K to 400 K*, **Colloquium, Department of Physics, The University of Arizona**, Tucson, Arizona, 24 October 1994.
108. *Conducting Polymers: Metals At Last*, **Colloquium, Department of Physics, Washington University**, St. Louis, Missouri, 7 November 1994.
109. *Electronic Polymers for the XXI<sup>st</sup> Century*, **Colloquium Max Planck Institute**, Stuttgart, Germany, 5 December 1994.
110. A.J. Epstein, *Conducting Polymers - Metals at Last*, **Condensed Matter Seminar, Department of Physics, University of Pennsylvania**, Philadelphia, Pennsylvania, 19 October 1995
111. *Plastic Metals*, **Colloquium, Department of Chemistry, Carnegie Mellon University**, Pittsburgh, Pennsylvania, 31 October 1995.
112. *Electronic Polymers - Where Are They Going?*, **Colloquium, Department of Chemistry, University of Utah**, Salt Lake City, Utah, 3 March 1996.
113. *Polymers-A New Frontier*, **Frontiers of Science Lecture, University of Florida**, Gainesville, Florida, 2 October 1996.
114. *Molecule- and Polymer- Based Magnets, A New Frontier*, **Seminar, Max-Planck-Institut für Physik Komplexer Systeme**, Dresden, Germany, 6 November 1996.

115. *Pyridine-Based Light-Emitted Polymers: Photophysics and Devices*, **Seminar, Max Planck-Institut für Festkörperforschung**, Stuttgart, Germany, 11 November 1996.
116. *Molecule and Polymer Based Magnets, a New Frontier*, **Seminar, Department of Chemistry, University of Tokyo**, Kamaba, Tokyo, Japan, 2 December 1996.
117. *Controlling the Conductivity of Conducting Polymers*, **Seminar, Nitto Chemical Industry Co., Ltd.**, Yokohama, Japan, 3 December 1996.
118. *Light Emitting Polymers: New Physics and New Technology*, **Colloquium, Korea Institute for Science and Technology**, Seoul, Korea, 13 March 1997.
119. *Light Emitting Polymers: New Physics and New Technology*, **Colloquium, Department of Physics, Korea University, Korea Basic Science Center**, Seoul, Korea, 13 March 1997.
120. *Conducting Polymers - Metals at Last*, **Colloquium, Department of Chemistry, University of Akron**, Akron, Ohio, 28 October 1997.
121. *Conducting Polymers as Chain-Linked Mesoscopic Granular Metals*, **Condensed Matter Seminar, University of Rochester**, Rochester, NY, 8 December 1997.
122. *Light-Emitting Polymers and Their Devices*, **Eastman Kodak Company, Weissberger Williams Lecture Series**, Rochester, NY, 9 December 1997.
123. *Conducting Polymers and Their Applications to Radar Absorption and Related Technologies*, **Department of Materials Science and Engineering, University of Washington**, Seattle, WA, 15 January 1998.
124. *Organic Composites for Microwave Shielding and Antennas*, **Interdisciplinary Seminar on Wireless Communication Technologies, The Ohio State University**, Columbus, Ohio, June 4, 1998.
125. *Molecule- and Polymer- Based Magnets, A New Frontier*, **Xerox Research Centre of Canada**, Toronto, Canada, 12 June 1998.
126. *Light Emitting Polymer Devices: New Architectures and New Opportunities*, **Liquid Crystal Institute, Kent State University**, Kent, Ohio, 3 March 1999.
127. A.J. Epstein, *Controlling Light Emission in Polymer and Polymer Devices through Molecular Engineering*, **Colloquium, Korea University**, Seoul, Korea, 12 May 1999.
128. A.J. Epstein, *Light Emission in Polymer and Polymer Devices through Molecular Engineering*, **Seminar, Korea Institute of Science and Technology**, Seoul, Korea, 13 May 1999.

129. A.J. Epstein, *Photophysics of Light Emitting Polymer Devices*, **Seminar, Department of Physics, University of Tokyo**, Tokyo, Japan, 2 August 1999.
130. A.J. Epstein, *Interface Control of Light Emitting Polymer Devices and their Devices*, **Colloquium, Institute of Chemistry, Chinese Academy of Sciences**, Beijing, China, 3 August 1999.
131. A.J. Epstein, *Charge Conduction in Electrically Conducting Polymers*, **Colloquium, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences**, Shantung China, 6 August 1999.
132. A.J. Epstein, *Photophysics of Semiconducting Polymers*, **Colloquium, Institute of Physics, Chinese Academy of Sciences**, Shantung China, 6 August 1999.
133. A.J. Epstein, *Synthesis and Properties of New Light Emitting Oligomers and Polymers*, **Colloquium, Department of Chemistry, Zheizhang University**, Hangzhou, China, 11 August 1999.
134. A.J. Epstein, *Physics, Chemistry and Device Opportunities of Polymer/Polymer Interfaces*, **Colloquium, East China University of Science and Technology**, Shanghai, China 12 August 1999.
135. A.J. Epstein, *Physics, Chemistry and Device Opportunities of Polymer/Polymer Interfaces*, **Colloquium, East China University of Science and Technology**, Shanghai, China 12 August 1999.
136. A.J. Epstein, *Photophysics of Derivatized Degenerate Conjugated Polymers Based on Polydiphenyl Acetylene: New Twists to an Old Story*, **Colloquium, Department of Physics, Fudan University**, Shanghai, China 12 August 1999.
137. A.J. Epstein, *Quantum Confinement, Dots, Resonant Tunneling: Exotic Phenomena in Electronic Plastics*, **Physics Department Colloquium, The Ohio State University**, Columbus, Ohio 11 January, 2000.
138. A.J. Epstein, *Light-Emitting Polymer and their Interfaces: Photophysics and Devices*, **Joint Physics and Chemistry Colloquium, Tsing Hua University**, Taiwan, Republic of China, 26 January 2000.
139. A.J. Epstein, *Electronic and Magnetic Polymers: A New Frontier for Plastics*, **Distinguished Lecturers Series on Advanced Materials Chemistry**, Department of Chemistry, The University of Toledo, Toledo, Ohio, 1 March 2000.
140. A.J. Epstein, *Why do Conductive Polymers Conduct? The Nobel Prize in Chemistry, Fractals and Quantum Tunneling*, **Seminar, Department of Physics, University of Florida**, Gainesville, Florida, October 30, 2000.

141. A.J. Epstein, *The 2000 Nobel Prize for 'Conductive Polymers' – Why all the Fuss?*, **Colloquium, Department of Physics, The Ohio State University**, Columbus, Ohio, November 14, 2000.
142. A.J. Epstein, *Organic Based Magnets: Old and New Physics in Unfamiliar Materials*, **Seminar, Materials Science Division, Argonne National Laboratory**, Argonne, Illinois, November 15, 2000.
143. A.J. Epstein, *Nanoscience of Electronic Polymers for Basic Research and Technology*, **Seminar, Alan G. MacDiarmid Institute, Jilin University**, Changchun, China, November 12, 2001.
144. A.J. Epstein, *Overview of Organic-Based Magnets*, **Seminar, University of Tokyo, Kamaba Campus**, Tokyo, Japan, October 29, 2001.
145. A.J. Epstein, *Unusual Phenomena in Organic-Based Magnets, Photoinduced Magnetism and Magnetic Organic Semiconductors*, **Seminar, University of Tokyo, Kamaba Campus**, Tokyo, Japan, October 30, 2001.
146. A.J. Epstein, *Organic-Based Magnets: A New Frontier for Physics, Chemistry and Technology*, **Seminar, Washeda University**, Tokyo, Japan, October 31, 2001.
147. A.J. Epstein, *Organic-Based Magnets: A New Frontier for Physics and Chemistry*, **Seminar, Tokyo Metropolitan University**, Tokyo, Japan, November 2, 2001
148. A.J. Epstein, *Organic-Based Magnets: A New Frontier for Physics*, **Seminar, Department of Physics, Kyoto University**, Kyoto, Japan, November 5, 2001.
149. A.J. Epstein, *Organic-Based Magnets: A New Frontier for Chemistry, Physics and Technology*, **Seminar, Department of Physics, Osaka University**, Osaka, Japan, November 6, 2001.
150. A.J. Epstein, *An Introduction into Electronic Polymers and their Applications*, **Seminar, Beijing Technical Research Center for Procter and Gamble**, Beijing, China, November 9, 2001.
151. A.J. Epstein, *Controlling Conductive Behavior in Plastics*, **Watkins Visiting Professor Colloquium, Department of Physics, Wichita State University**, Wichita, Kansas, March 4, 2002.
152. A.J. Epstein, *Nanotechnology, Plastics and the 21<sup>st</sup> Century*, **Watkins Visiting Professor Public Lecture, Department of Physics, Wichita State University**, Wichita, Kansas, March 5, 2002.

153. A.J. Epstein, *Organic-Based Magnets*, **Watkins Visiting Professor Seminar, Department of Physics, Wichita State University**, Wichita, Kansas, March 5, 2002.
154. A.J. Epstein, *Organic-based Magnets, From an Unknown to Photoinduced Magnetism and Spintronics*, **Colloquium, University of Buffalo at SUNY**, Buffalo, New York, April 25, 2002.
155. A.J. Epstein, *Nanotechnology, Plastics, and Your Investments*, **University Distinguished Lecture, The Ohio State University**, Columbus, Ohio, May 1, 2002.
156. A.J. Epstein, *Electronic Polymers: Unconventional Metals and Semiconductors For New Science and New Technologies*, **Colloquium, University of Texas at Dallas**, Richardson, Texas, November 15, 2002.
157. A.J. Epstein, *Organic-based Magnets: From Impossibility to Fractal Magnets, Photoinduced Magnetism and Spintronics*, **Colloquium, The Ohio State University**, Columbus, Ohio, January 7, 2003.