Frank H. Stillinger

Talks, listed in approximately chronological order

- 1. Yale, Chemistry Dept., "Theory of Fused Salts".
- 2. M.I.T, Chemistry Dept., "Theory of Fused Salts".
- 3. R.C.A., "Theory of Fused Salts".
- 4. Bell Laboratories, "Quantum Statistics of Nonideal Systems".
- 5. University of Chicago, "Quantum Statistics of Nonideal Systems".
- 6. Chicago, A.P.S. meeting, "Remarks on Correlations in Ising Models".
- 7. Washington, DC. A.P.S. meeting, "Approximations in the Theory of Dense Fluids (?)".
- 8. Gordon Conference, summer 1959, "Theory of Fused Salts".
- 9. Gordon Conference, June 1963, "Critical Phenomena".
- 10. Columbia University, "Double Layer Theory".
- 11. University of Pennsylvania, "Double Layer Theory".
- 12. Baltimore, A.P.S. meeting, "Gaussian Mixture".
- 13. Yeshiva University, "Gaussian Mixture".
- 14. Princeton University, "Gaussian Mixture".
- 15. University of Minnesota, Mar. 2, 1966, "Gaussian Mixture".
- 16. Mellon Institute, "Residual Ice Entropy".
- 17. Yeshiva University, "Rigid Disks at High Compression"
- 18. Yale University, "Rigid Disks at High Compression".
- 19. Bell Labs, Chemistry, "Rigid Disks at High Compression".
- 20. Bell Labs, Chemistry, "Surface Tension of Dilute Electrolytes".
- 21. Bell Labs, Theoretical Chemistry, "Theory of Fused Salts".
- 22. Bell Labs, Theoretical Chemistry, "Critique of Ornstein-Zernike Theory".
- 23. Bell Labs, Theoretical Physics, "Correlations in Classical Order-Disorder Theory".
- 24. S.U.N.Y. Buffalo, "Cooperative Behavior in the Rigid Disk System".
- 25. University of Rochester, Chemistry Dept., "Compressibility of Simple Fused Salts".
- 26. New York City, A.P.S. meeting, "Ising Quadruplet Spin Averages".
- 27. Atlantic City, A.C.S. meeting, "Double Layer Theory".
- 28. Gordon Conference on Fused Salts, "Fused Salt Compressibility".
- 29. Carnegie Tech., Mar. 11, 1966, "Crystals of Rigid Sheres".
- 30. Bell Labs, Theoretical Physics, Mar. 23, 1966, "Crystals of Rigid Spheres".
- 31. Louisiana State University, Chemistry Dept., Apr. 28, 1966, "Crystals of Rigid Spheres".

- 32. Rice University, Chemistry Dept., Dec. 16, 1966, "Critical Phenomena in a Model Binary Fluid".
- 33. Indiana University, Chemistry Dept., Mar. 9, 1967, "Critical Phenomena in a Model Binary Fluid".
- 34. Yeshiva University, Apr. 6, 1967, "Physical Clusters and Critical Phenomena".
- 35. Cornell University, Dec. 14, 1967, "Physical Cluster Theory of Critical Phenomena".
- 36. Cornell University, Dec. 14, 1967, "Ion-Pair Theory of Concentrated Electrolytes".
- 37. University of Illinois, Apr. 1, 1968, "Physical Cluster Theory of Critical Phenomena".
- 38. S.U.N.Y. Albany, Dec. 17, 1968, "An Unconventional View of Electrolytes".
- 39. S.U.N.Y. Stony Brook, Mar. 7, 1969, "An Unconventional View of Electrolytes".
- 40. University of Pennsylvania, Chemistry Dept., April 29, 1969, "An Unconventional View of Electrolytes".
- 41. Washington University, Chemistry Dept., May 8, 1969, "The Structure of Liquid Water".
- 42. University of Chicago, Chemistry Dept., T.F. Young Symposium, June 16, 1969, "Structure in Liquid Water".
- 43. Gordon Conference, Holderness, NH, Aug. 13, 1969, "Structure in Liquid Water".
- 44. National Academy of Sciences, Hanover, NH (Dartmouth University), Oct. 15, 1969, "Structure in Liquid Water".
- 45. Carnegie-Mellon University, Physics Dept., May 1, 1970, "Structure in Liquid Water".
- 46. University of Rochester, Chemistry Dept., May 13, 1970, "Structure in Liquid Water".
- 47. Gordon Conference on Water, Tilton, NH, June 15, 1970, "Statistical Mechanical Theory of Water".
- 48. A.C.S., Chicago, Harned Memorial Symposium, Sept. 13, 1970, "Variational Principle for Electrolyte Theory".
- 49. A.C.S., Northeastern Section, Providence, RI, Water Symposium organized by E. Pysh, Oct. 20, 1970, "Comments on the Quantum Mechanical Approach to a Theory of Water Structure".
- 50. Yeshiva University, Statistical Mechanics Conference, Dec. 2, 1970, "Contribution to Scaled Particle Theory" (15 min.).
- 51. Bell Labs, 15 seminar, Dec. 16, 1970, " "Structure of Liquid Water".

- 52. U.C.L.A., Chemistry Dept., Feb. 8, 1971, "Structure in Liquid Water" evening, 90 min.)
- 53. Temple University, Physics Dept., Apr. 13, 1971, "Structure in Liquid Water".
- 54. University of Maryland, College Park, Chemistry Dept., May 25, 1971, "Structure in Liquid Water".
- 55. Northern Illinois University, Conference on Computers in Education and Research, July 21, 1971, "Computer-Assisted Study of Liquid Water".
- 56. Society for Cryobiology, Washington, DC, Aug. 30, 1971, "Structure in Liquid Water".
- 57. A.C.S., Washington, DC, Sept. 13, 1971, "Structure in Liquid Water".
- 58. National Bureau of Standards, Gaithersburg, MD, Nov. 15, 1971, "Structure in Liquid Water".
- 59. Columbia University, Chemistry Dept. Colloquium, Dec. 16, 1971, "Structure in Liquid Water".
- 60. Yale University, Chemistry Dept., Onsager Symposium, Apr. 20, 1972, "Molecular Structure of Liquid Water".
- 61. Carnegie-Mellon University, H.S. Frank Birthday Symposium, June 14, 1972, "Orientational Order in Ice".
- 62. Gordon Conference on Dielectrics, Proctor Academy, Andover, NH, July 25, 1972, "Local Orientational Order in Ice".
- 63. Gordon Conference on Water and Aqueous Solutions, Holderness School, Plymouth, NH, Aug. 23, 1972, "Recent Developments in Molecular Dynamics Studies of Models for Aqueous Systems".
- 64. N.Y.U., Chemistry Dept., Nov. 3, 1972, "Molecular Theory of Liquid Water".
- 65. University of Illinois Urbana, Chemistry Dept., Jan. 12, 1973, "Molecular Theory of Liquid Water".
- 66. Bell Labs Council, Jan. 24, 1973, review of entire water project (25 min.).
- 67. Australian National University, Canberra, Symposium on Equilibrium Electrochemistry, Feb. 20, 1973, "Basic Theory of Water".
- 68. Australian National University, Canberra, Symposium on Equilibrium Electrochemistry, Feb. 21, 1973, "Computer Simulation of Aqueous Fluids".
- 69. A.P.S., San Diego, CA, Liquid State Symposium, "Theory of Water" (45 min.).
- 70. University of Florida, Gainesville, Chemistry Dept., May 4, 1973, "The Molecular Nature of Liquid Water".

- 71. Brookhaven National Laboratory, Chemistry Dept., June 20, 1973, "Hydrogen Bond Topology in Liquid Water".
- 72. Purdue University, Chemistry Dept., Sept. 26, 1973, "Molecular Dynamics Simulation of Liquid Water".
- 73. Cornell University, Chemistry Dept., Oct. 17, 1973, "Critical Phenomena in Atomic and Molecular Quantum Theory".
- 74. Cornell University, Chemistry Dept., Oct. 18, 1973, "Molecular Dynamics Study of Liquid Water".
- 75. Rutgers University, Chemistry Dept., Nov. 20, 1973, "Molecular Dynamics Study of Liquid Water".
- 76. National Bureau of Standards, June 20, 1974, "Critical Phenomena in Atomic and Molecular Quantum Mechanics. I.".
- 77. National Bureau of Standards, June 21, 1974, "Critical Phenomena in Atomic and Molecular Quantum Mechanics. II.".
- 78. Gordon Conference on Water and Aqueous Solutions, Plymouth, NH, Aug. 9, 1974, "Molecular Dynamics Progress Report".
- 79. University of Minnesota, Chemistry Dept., Oct. 14, 1974, "Molecular Structure and Properties of Liquid Water".
- 80. Houston Museum of Natural Sciences (sponsored by Rice University), Welsh Foundation Lecture, Dec. 2, 1974, "Understanding Liquid Water".
- 81. University of Texas Medical Branch, Galveston, TX, Welsh Foundation Lecture, Dec. 3, 1974, "Understanding Liquid Water".
- 82. Lamar University, Beaumont, TX, Welsh Foundation Lecture, Dec. 4, 1974, "Understanding Liquid Water".
- 83. Yeshiva University, Statistical Mechanics Conference, Dec. 12, 1974, "Central Force Models for Water Molecular Dynamics Studies".
- 84. University of Colorado, Boulder, CO, Chemistry Dept., Apr. 2, 1975, "Understanding Liquid Water".
- 85. I.U.P.A.C., Jerusalem, Israel, July 7, 1975, "Construction and Use of Central-Force Models for the Theory of Polyatomic Fluids".
- 86. Royal Society, London, England, Nov. 13, 1975, "Theoretical Approaches to the Intermolecular Nature of Water".
- 87. A.C.S. (MARM), Liquids Symposium, Philadelphia, PA, Feb. 24, 1976, "Theory for Hydrogen-Bonded Liquids".
- 88. SUNY Binghamton, Chemistry-Physics Joint Seminar, Mar. 15, 1976, "Theory for Hydrogen-Bonded Liquids".
- 89. A.C.S., Debye Award Symposium, New York City, Apr. 7, 1976, "Quantum Chemistry and the Eccentric Behavior of Liquid Water".
- 90. Princeton University, Chemistry Dept., May 5, 1976, "Simple Theory for Hydrogen-Bonded Liquids".

- 91. National Bureau of Standards, Gaithersburg, MD, Oct. 7, 1976, "Study of the Gaussian Core Model for Melting".
- 92. Howard University, Chemistry Dept., Oct. 8, 1976, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 93. Wesleyan University, Chemistry Dept., Oct. 22, 1976, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 94. Pennsylvania State University, Chemistry Dept., Nov. 4, 1976, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 95. University of Rochester, Chemistry Dept., Dec. 1, 1976, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 96. University of Waterloo, Canada, Chemistry Dept., Feb. 22, 1977, "Discriminating Molecular Interactions and Aggregation in Fluorinated Hydrocarbons".
- 97. University of Delaware, Chemistry Dept., Mar. 9, 1977, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 98. National Bureau of Standards, Apr. 19, 1977, Summary lecture for meeting "Estimation of the Properties of Fluid Mixtures".
- 99. Yeshiva University, Semi-annual Statistical Mechanics Meeting, May 10, 1977, "Lattice Model for Bilayer Membrane Formation".
- 100. Proctor and Gamble Laboratories, Cincinnati, OH, Oct. 13, 1977, "Recent Advances in the Theory of Water".
- 101. Proctor and Gamble Laboratories, Cincinnati, OH, Oct. 13, 1977, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 102. U.C.S.D., La Jolla, CA, Chemistry Dept., Nov. 15, 1977, "Recent Advances in the Theory of Water and Aqueous Solutions".
- 103. U.S.C., Los Angeles, CA, Chemistry Dept., Nov. 16, 1977, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 104. Rutgers University, Semi-annual Statistical Mechanics Conference, Dec. 16, 1977, "Melting and Freezing Transitions in the Gaussian Core Model".
- 105. N.Y.U., Physics Dept., Jan. 5, 1978, "Present Status of the Theory of Water".
- 106. North Carolina State University, Raleigh, NC, Chemistry Dept., Mar. 20, 1978, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 107. University of North Carolina, Chapel Hill, NC, Mar. 21, 1978, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".

- 108. University of Connecticut, Storrs, CT, Chemistry Dept., Apr. 5, 1978, "Molecular Recognition and Self-Organization in Fluorinated Hydrocarbons".
- 109. University of Missouri, Rolla, MO, Physics and Chemistry Colloquium, May 11, 1978, "Recent Advances in the Theory of Water and Related Liquids".
- 110. University of Colorado, Boulder, CO, American Conference on Theoretical Chemistry, June 28, 1978, "Molecular Models for Polarization, Distortion, and Dissociation in Condensed Phases".
- 111. National Bureau of Standards, Gaithersburg, MD, July 10, 1978, "Melting, Freezing, and Variable Dimension".
- 112. Rutgers University, Chemistry Dept., Mar. 9, 1979, "Studies of Melting and Freezing".
- 113. University of Oregon, Eugene, OR, Chemistry Dept., Apr. 23, 1979, "Studies of Proton Chemistry with the Polarization Model".
- 114. A.C.S. Symposium "Water in Polymers", Washington, DC, Sept. 10, 1979, "Thermal Properties of Water in Restrictive Geometries".
- 115. Brown University, Chemistry Dept., Oct. 26, 1979, "Bridging Structural Chemistry and Statistical Mechanics with the Polarization Model".
- 116. A.P.S. short course, New York City Hilton Hotel, Mar. 22, 1980, "Role of Water in Biological Systems. Structure and Function".
- 117. A.C.S., Houston, TX, Kendall Award Symposium for Howard Reiss, Mar. 26, 1980, "Theory of Micelle Formation".
- 118. Yale University, Chemistry Dept., Apr. 15, 1980, "Theoretical Modeling of Complex Liquids".
- 119. Georgia Tech., Chemistry Dept., Apr. 24, 1980, "Theoretical Modeling of Complex Liquids".
- 120. Jackson State University, Chemistry Dept., Apr. 25, 1980, "Theoretical Modeling of Complex Liquids".
- 121. National Bureau of Standards, May 19, 1980, "Theory of Micelle Formation".
- 122. Gordon Conference on Water and Aqueous Solutions, Aug. 5, 1980, "Dissociation and Proton Transfer".
- 123. Boston University, Physics Dept., Oct. 8, 1980, "Statistical Thermodynamics of Micellar Solutions".
- 124. Catholic University, joint Chemistry-Physics colloquium, Nov. 5, 1980, "Statistical Thermodynamics of Micellar Solutions".
- 125. Tenth Annual Statistical Mechanics Meeting, Cocoyoc, Mexico, Jan. 9, 1981, "Structural Aspects of the Melting Transition".

- 126. University of Maryland, Chemistry Dept., Mar. 25, 1981, "Melting, Freezing, and Hidden Structure in Liquids".
- 127. University of Maryland, Chemistry Dept., Distinguished Lecturer, Mar. 26, 1981, "Theoretical Modeling for Complex Fluids".
- 128. Los Alamos Scientific Laboratory, Theoretical Division, Apr. 6, 1981, "Theoretical Modeling for Complex Fluids".
- 129. University of Illinois, Chemistry Dept., Apr. 22, 1981, "Theoretical Modeling for Complex Fluids".
- 130. M.I.T., Theoretical Chemistry Seminar, May 20, 1981, "Hidden Structure in Liquids".
- 131. University of Tennessee, Knoxville, Chemistry Dept., Oct. 6, 1981, Polarization Model Studies of Gas Phase Neutralization Reactions".
- 132. Oak Ridge National Laboratory, Chemistry Division, Oct. 7, 1981, "Statistical Mechanical Theory of Micelle Solutions".
- 133. Rutgers University, 46th Statistical Mechanics Meeting, Dec. 18, 1981, "Statistical Mechanical Modeling for Water and Aqueous Solutions".
- 134. Bell Labs, 1153 Seminar, Jan. 21, 1982, "Hidden Structure in Liquids".
- 135. University of Texas, Austin, Chemistry Dept., Feb. 25, 1982, "Polarization Model Studies of Gas Phase Neutralization Reactions".
- 136. University of Houston, TX, Chemistry Dept., Feb. 26, 1982, "Hidden Structure in Liquids".
- 137. Joseph E. Mayer Symposium, West Palm Coast, FL, Mar. 10, 1982, "Structure of the Interface Between Coexisting Fluid Phases".
- 138. Proctor and Gamble Laboratories, Cincinnati, OH, Mar. 12, 1982, "Structure of the Interface Between Coexisting Fluid Phases".
- 139. University of California, Berkeley, Chemistry Dept., May 18, 1982, "Polarization Model Studies of Gas Phase Neutralization Reactions".
- 140. VI International Conference on Physics and Chemistry of Ice, Rolla, MO, Aug. 6, 1982, "Ice Under Pressure: Transition to Symmetrical Hydrogen Bonds".
- 141. Gordon Conference on Water and Aqueous Solutions, Holderness School, Plymouth, NH, Aug. 10, 1982, "Field Theory of Micelles".
- 142. Columbia University, Chemistry Dept., Oct. 7, 1982, "Field Theory of Micelles".
- 143. Harvard University, Chemistry Dept., Nov. 10, 1982, "Field Theory of Micelles".
- 144. 48th Statistical Mechanics Meeting, Rutgers University, Dec. 17, 1982, "Variational Field Theory for Micelles and Membranes".
- 145. Lehigh University, Chemistry Dept., Jan. 19, 1983, "Field Theory for Micelles and Membranes".

- 146. Hildebrand Award Symposium (for Jiri Jonas), A.C.S. meeting, Seattle, WA, Mar. 23, 1983, "Inherent Structure and Dynamics in Liquids".
- 147. University of Rochester, Chemistry Dept., Apr. 18, 1983, "Multiple Isomerism in Liquids and Amorphous Solids".
- 148. University of Wisconsin, Chemistry Dept., Sept. 13, 1983, "Inherent Structure in Liquids".
- 149. 50th Semiannual Statistical Mechanics Meeting, Rutgers University, Dec. 16, 1983, "Molecular Packings and the Dynamics of their Interconversions".
- 150. University of Chicago, Chemistry Dept., Jan. 23, 1984, "Molecular Packings and Their Interconversions in Liquids and Solids".
- 151. University of Oklahoma, Chemistry Dept., Karcher Lecture, Mar. 1, 1984, "Molecular Packings and Their Interconversions in Liquids and Solids".
- 152. University of California, Davis, Conference on Statistical Mechanics, Mar. 29, 1984, "Melting, Freezing, and Glass Transitions".
- 153. Yale University, Chemistry Dept., Trumbull Lecture I, Apr. 6, 1984, "Inherent Structure and Dynamics in Liquids and Solids".
- 154. A.C.S., St. Louis, MO, Langmuir Award Symposium (for Robert Zwanzig), Apr. 9, 1984, "Molecular Packings and Their Interconversions in Liquids and Solids".
- 155. Yale University, Chemistry Dept., Trumbull Lecture II, Apr. 13, 1984, "Phase Transitions and How to Avoid Them".
- 156. Yale University, Chemistry Dept., Trumbull Lecture III, Apr. 20, 1984, "Rate Processes in Condensed Phases".
- 157. Yale University, Chemistry Dept., Trumbull Lecture IV, Apr. 27, 1984, "Hydrogen Bond Structure in Aqueous Media".
- 158. Fifth American Conference on Theoretical Chemistry, Jackson Lake Lodge, Grand Teton National Park, WY, June 19, 1984, "Isomeric Packing Theory for Condensed-Matter Structure and Dynamics".
- 159. University of Pennsylvania, Chemistry Dept., Oct. 4, 1984, "Structure, Kinetics, and Phase Transitions in Condensed Matter".
- 160. Rahman Festschrift, Argonne National Laboratory, Nov. 13, 1984, "Particle Packings and the Properties of Condensed Phases".
- 161. National Bureau of Standards, Gaithersburg, MD, Jan. 17, 1985, "Inherent Structures and Their Dynamics in Condensed Phases".
- 162. U.C.L.A., Chemistry Dept., Feb. 4, 1985, "Physical Chemistry of Liquids and Solids Freed from the Tyranny of Three-Dimensional Thought".
- 163. A.P.S., Baltimore, MD, Div. of Chem. Phys. Symposium on Order

- and Disorder in Condensed Systems, Mar. 26, 1985, "A Configuration-Space View of Many-Body Structure and Dynamics".
- 164. NSF Workshop on Supercomputers in Chemistry, Arden House, Harriman, NY, Apr. 26, 1985, "Patterns of Order in Condensed Matter and Their Image Enhancement by Computer".
- 165. A.C.S., Miami Beach, FL, C.A. Angell's glass symposium, Apr. 29, 1985, "Supercooling and Vitrification as Challenges to Statistical Mechanics".
- 166. A.C.S., Miami Beach, FL, Hildebrand Award Symposium (for Berni Alder), Apr. 30, 1985, "Hard-Sphere Models and the Inherent Structure in Liquids".
- 167. Princeton University, Chemistry Dept., May 9, 1985, "Understanding Molecular Order and Kinetics in Liquids, Crystals, and Glasses from a Multidimensional Viewpoint".
- 168. Gordon Conference on Liquids, Holderness School, Plymouth, NH, Aug. 23, 1985, "Topographics of Potential Energy Hypersurfaces and Their Implications for Liquids".
- 169. A.C.S., Chicago, Interface Symposium, Sept. 9, 1985, "Inherent Structure Theory Applied to Surfaces".
- 170. University of Michigan, Chemistry Dept., Sept. 19, 1985, "Molecular Order and Kinetics in Liquids, Crystals, and Glasses: A Multidimensional Perspective".
- 171. University of Maryland, Institute for Physical Science and Technology, Nov. 5, 1985, "A Square Model for Glasses".
- 172. University of Maryland, Physics Dept., Nov. 5, 1985, "Molecular Order and Kinetics in Liquids, Crystals, and Glasses: A Multidimensional Perspective".
- 173. New York Academy of Sciences, Glass Symposium, Dec. 1, 1985, "Statistical Mechanical Modeling for the Glass Transition".
- 174. 54th Semiannual Statistical Mechanics Meeting, Rutgers University, Dec. 19, 1985, "A Model for Supercooling and Glass Formation".
- 175. Stanford University, Chemistry Dept., Jan. 9, 1986, "Inherent Structure Concepts for Liquids and Their Application to Chemical Reactivity".
- 176. University of Nebraska, Chemistry Dept., Washburn Memorial Lecture, Jan. 31, 1986, "Inherent Structures in Liquids: Implications for Chemistry and Materials Science".
- 177. Michigan State University, Physics Dept., Feb. 10, 1986, "Tiling, Prime Numbers, and the Glass Transition".
- 178. Bell Labs, informal theoretical physics seminar, Feb. 24, 1986, "A

- Simple Model for Glass Formation".
- 179. Boston College, Chemistry Dept., Mar. 13, 1986, "Structure and Dynamics in Complex Reactive Liquids: A Realistic Model for Sulfur".
- 180. U.C. Davis, Statistical Mechanics Conference, Mar. 28, 1986, "A Tiling Model for Supercooling and Glass Formation".
- 181. A.C.S., New York City, Hildebrand Award Lecture (to F.H.S.), Apr. 16, 1986, "Theory for Structured and Reactive Liquids: Application to Sulfur".
- 182. University of Delaware, Physics Dept., May 7, 1986, "A Tiling Model for Supercooling and Glass Formation".
- 183. STATPHYS 16, Boston University, Aug. 12, 1986, "Kinetics in Chemically Reactive Liquids".
- 184. University of Minnesota, Chemistry Dept., Oct. 20, 1986, "Kinetic Theory for Chemically Reactive Liquids, with Application to Sulfur".
- 185. Alabama A.&M. University, Physics Dept., Oct. 30, 1986, "Inherent Structure Theory of Liquids and Other Amorphous Materials".
- 186. Rensselaer Polytechnic Institute, Chemistry Dept., Nov. 13, 1986, "Pure Theory and Impure Computation for a Reactive Liquid: Sulfur".
- 187. University of Indiana, Chemistry Dept., Gucker Lecture, Jan. 29, 1987, "Order in the Face of Chaos: Inherent Structures in Dense and Reactive Media".
- 188. University of Iowa, Chemistry Dept., Feb. 26, 1987, "Inherent Structure Theory for Static and Dynamic Properties of Liquids and Amorphous Solids".
- 189. A.C.S., Denver, CO, Hildebrand Award Symposium (to Stuart Rice), Apr. 6, 1987, "Random Particle Packings and the Liquid State".
- 190. A.C.S., Denver, CO, Supercomputers in Chemistry Symposium, Apr. 7, 1987, "Molecular Dynamics with Nonadditive Interactions".
- 191. Institute for Theoretical Physics, U.C. Santa Barbara, CA, June 16, 1987, "Kinetics in Glasses and Liquids from a Multidimensional Geometric Point of View".
- 192. University of Minnesota, Mathematics Dept., Institute for Mathematics and its Applications, June 29, 1987, "Collective Phenomena in Statistical Mechanics and the Geometry of Potential Energy Hypersurfaces. I. Basic Concepts".
- 193. University of Minnesota, Mathematics Dept., Institute for Mathematics

- and Its Applications, June 30, 1987, "Collective Phenomena in Statistical Mechanics and the Geometry of Potential Energy Hypersurfaces. II. Phase Transitions".
- 194. University of Minnesota, Mathematics Dept., Institute for Mathematics and its Applications, July 1, 1987, "Collective Phenomena in Statistical Mechanics and the Geometry of Potential Energy Hypersurfaces.III. Rate Processes".
- 195. A.C.S., New Orleans, LA, Symposium on Phase Transitions and and Disordered States of Matter, Sept. 2, 1987, "Ising-Like Adsorption Models for Inherent Structure in Condensed Phases".
- 196. Carnegie-Mellon University, Chemistry Dept., Oct. 8, 1987, "Statistical Mechanics of Supercooled Liquids and Glasses".
- 197. Pennsylvania State University, Chemistry Dept., Nov. 5, 1987, "Supercooling, Glass Transitions, and Amorphous Solids".
- 198. U.C.L.A., Chemistry Dept., Nov. 9, 1987, "Supercooling, Glass Formation, and the Kauzmann Paradox".
- 199. Bell Labs, Division 115 seminar, Jan. 28, 1988, "Inherent Structures Representation for Condensed Matter Phenomena".
- 200. University of Houston, Chemistry Dept., Feb. 10, 1988, "Inherent Structures Representation for Condensed Matter Phenomena".
- 201. University of Texas, Austin, Chemistry Dept., W.A. Noyes Lecture, Feb. 11, 1988, "Inherent Structures Representation for Condensed Matter Phenomena".
- 202. 3rd U.C. Davis Conference on Statistical Mechanics, Mar. 30, 1988, "Unified Approach to Understanding Molecular Glasses".
- 203. University of Illinois, Urbana, IL, Chemistry Dept., Sept. 14, 1988, "Inherent Structures in Stable and Supercooled Liquids".
- 204. Washington University, St. Louis, MO, Chemistry Dept., Oct. 13, 1988, "Inherent Structures in Stable and Supercooled Liquids".
- 205. International Symposium on Fluctuation and Relaxation in Condensed Phase, Kyoto, Japan, Nov. 7, 1988, "Structural Fluctuations and Nucleation in Supercooled Liquids".
- 206. University of Maryland, Institute for Physical Science and Technology, Zwanzig Festschrift Symposium, Nov. 18, 1988, "Fragile Glasses and Crystal Nucleation".
- 207. Harvard-M.I.T. Joint Physical Chemistry Seminar, Feb. 9, 1989, "Potential Energy Hypersurfaces and Their Role in Glass Formation".
- 208. A.P.S. meeting, St. Louis, MO, Irving Langmuir Prize Lecture (to F.H.S.), Mar. 21, 1989, "Glass Relaxation and the Cartography of Potential Energy Hypersurfaces".

- 209. Los Alamos National Laboratory, Theoretical Physics Division, June 2, 1989, "Relaxation Behavior in Atomic and Molecular Glasses".
- 210. M.I.T., 60th Birthday Symposium for Irwin Oppenheim, June 23, 1989, "The Kauzmann Paradox".
- 211. General Electric Corporate R&D Center, Schenectady, NY, Oct. 3, 1989, "Inherent Structures in Condensed Phases".
- 212. Rutgers Statistical Mechanics Conference, Dec. 14, 1989, "A Toy Model for Crystallization".
- 213. U.C.L.A., Chemistry Dept., Regents Lecture, Jan. 8, 1990, "Metastable States of Matter. I. Introduction and Survey".
- 214. U.C.L.A., Chemistry Dept., Regents Lecture, Jan. 10, 1990, "II. Metastable States of Water".
- 215. U.C.L.A., Chemistry Dept., Regents Lecture, Jan. 16, 1990, "III. The Glass State (Part 1)".
- 216. U.C.L.A., Chemistry Dept., Regents Lecture, Jan. 17, 1990, "IV. The Glass State (Part 2)".
- 217. U.C.L.A., Chemical Engineering Dept., Regents Lecture, Jan. 24, 1990, "V. Clusters and Droplets".
- 218. U.C.L.A., Chemistry Dept., Regents Lecture, Jan. 26, 1990, "VI. Nucleation".
- 219. University of Chicago, Physical Chemistry Seminar, Mar. 7, 1990, "Some Recent Thoughts About Inherent Structures in Liquids".
- 220. University of Illinois, Chicago, Chemistry Dept., Mar. 8, 1990, "Transition Dynamics in 55-Atom Clusters".
- 221. N.Y.U., Courant Institute, Mar. 27, 1990, "Condensed Matter Phenomena from the Inherent Structures' Viewpoint".
- 222. Ohio State University, Chemistry Dept., first of two Meek Industrial Lectures, May 7, 1990, "Cluster Dynamics from the Inherent Structure Viewpoint".
- 223. Ohio State University, Chemistry Dept., second of two Meek Industrial Lectures, Mat 8, 1990, "Science in the Next Century".
- 224. Santa Fe Institute, May 21, 1990, "Nonlinear Optimization Strategies for the Protein Folding Problem".
- 225. A.T.&T. Bell Labs, lunchtime lecture for summer students, June 26, 1990, "Science in the Next Century".
- 226. Rutgers University, Hill Center, H.L. Frisch Symposium, Dec. 19, 1990, "Irregular Disk and Sphere Packings".
- 227. University of Maryland, Institute for Physical Science and Technology, Feb. 19, 1991, "A Theoretical View of the Protein

- Folding Problem".
- 228. A.P.S., Cincinnati, OH, Mar. 18, 1991, "Planck's Constant Expansions for Atomic and Molecular Eigenstates".
- 229. Columbia University, Chemistry Dept., Apr. 4, 1991, "A Theoretical View of the Protein Folding Problem".
- 230. McGill University, Canada, Center for the Physics of Materials, Apr. 11, 1991, "Condensed Matter Phenomena from the 'Inherent Structures' Viewpoint".
- 231. Howard University, Chemistry Dept., Apr. 19, 1991, Inherent Structures in Liquids".
- 232. Bell Labs, Condensed Matter Seminar, May 8, 1991, "The Inherent Structures' Description of Condensed Matter Phenomena".
- 233. Bilateral Workshop (NAS-ASUSSR) on Proteins and Glasses, Chernogolovka, Russia, June 6, 1991, "Potential Energy Hypersurfaces and Relaxations in Proteins and Glasses".
- 234. Boston University, Physics Colloquium, Oct. 2, 1991, A Physicist's View of the Protein Folding Problem".
- 235. N.I.H., Bethesda, MD, Dec. 5, 1991, "Theoretical Aspects of the Protein Folding Problem".
- 236. Bell Labs, Division 115 Seminar, Feb. 6, 1992, "A Theoretical Assault on the Liquid Water Problem".
- 237. Florida State University, Joint Physical Chemistry and Biochemistry Seminar, Mar. 5, 1992, "Theoretical Aspects of the Protein Folding Problem".
- 238. Florida State University, Chemistry Dept. seminar, Mar. 6, 1992, "Understanding the Peculiar Nature of Water".
- 239. A.P.S., Indianapolis (talk K17 1, 10 min.), Mar. 18, 1992, "An Orientational Perturbation Theory for Water".
- 240. University of Wisconsin, Chemistry Dept., McElvain Lecture, Mar. 24, 1992, "Toward a Theory of Liquid Water".
- 241. A.C.S., San Francisco, Debye Award Lecture (to F.H.S.), Apr. 7, 1992, "Toward a Rational Theory of Liquid Water".
- 242. Barnard-Columbia Physics Colloquium, Sept. 18, 1992, "Inherent Structures in Liquids".
- 243. University of Chicago, Chemistry Dept., 60th BirthdaySymposium for Stuart Rice, Sept. 24, 1992, "A Toy Model for Protein Folding".
- 244. University of Michigan, Dept. of Chemistry, Gomberg Lecture, Oct. 13, 1992, "Liquid Water: What is It?".
- 245. Carnegie-Mellon University, Physics Dept., Nov. 30, 1992, "Some Examples of Two-Dimensional Melting".

- 246. Carnegie-Mellon University, Physics Dept. Colloquium, Nov. 30, 1992, "A Toy Model for Protein Folding".
- 247. Rutgers University, Physics Colloquium, Dec. 9, 1992, "Inherent Structures in Liquids and Glasses".
- 248. University of North Carolina, Chemistry Dept., Mar. 4, 1993, "A Toy Model for Protein Folding".
- 249. A.P.S., Seattle, WA (talk R20 4, 10 min.), Mar. 26, 1993, "Phase Transitions in a Dimer Buckling Model for Si(001)".
- 250. A.T.&T. Bell Labs, Solid State Physics Seminar, Apr. 16, 1993, "Toy Model for Protein Folding".
- 251. 69th Semiannual Statistical Mechanics Meeting, Rutgers University, 25 min. invited talk, May 6, 1993, "Inherent Structures in Liquids and Solids".
- 252. 8th American Conference on Theoretical Chemistry, University of Rochester, June 29, 1993, "A Toy Model for Protein Folding".
- 253. A.C.S., Chicago, Aug. 24, 1993, "Lessons from a Toy Model for Protein Folding".
- 254. Benjamin Levich Institute, CUNY, Nov. 30, 1993, "Molecular Structure and Motion in Glass-Forming Liquids".
- 255. A.P.S., Pittsburg, PA, Mar. 21, 1994, "Equilibrium Concentration of Point Defects in Crystalline ⁴He at 0K".
- 256. A.P.S., Pittsburg, PA, Mar. 23, 1994, "Weak Crystallization in the Gaussian Core System".
- 257. SIAM (Society for Industrial and Applied Mathematics), San Diego, CA, July 27, 1994, "Sobering Lessons from a Simple Protein Folding Model".
- 258. NIST Workshop on Glasses, Stevensville, MD, Feb. 16, 1995, "Inherent Structures Representation for Supercooled Liquids and Their Glass Transitions".
- 259. A.P.S., San Jose, CA, Mar. 23, 1995, "Statistical Mechanics of Metastable Matter. Superheated and Stretched Liquids".
- 260. A.C.S., Anaheim, CA, Apr. 4, 1995, "Mathematical Challenges from Theoretical/Computational Chemistry".
- 261. Princeton Materials Institute, Workshop on Computational Modeling of Materials, May 9, 1995, "Modeling Amorphous Materials and Their Physical and Chemical Transformations".
- 262. 73rd Semiannual Statistical Mechanics Meeting, Rutgers University, May 11, 1995, "Statistical Mechanics for Metastable Matter".
- 263. Institute for Mathematics and its Applications, University of Minnesota, Sept. 22, 1995, "Sphere Packing Phenomena: From the

- Obvious to the Puzzling".
- 264. Institute for Mathematics and its Applications, University of Minnesota, Sept. 22, 1995, "Superheated, Supercooled, and Stretched Matter".
- 265. University of Illinois, Urbana, Chemistry Dept., Sept. 25, 1995, "Living in a Metastable World: Superheated, Supercooled, and Stretched Matter".
- 266. University of California, Berkeley, Ninth Annual Pitzer Lecture, Chemistry Dept., Mar. 12, 1996, "Superheated, Supercooled, and Stretched Matter".
- 267. Courant Institute, N.Y.U., Mar. 29, 1996, "Rugged Potential Energy Landscapes and Their Role in Condensed Matter Phenomena".
- 268. American Ceramic Society, Indianapolis, Amorphization Mechanisms Symposium, Apr. 15, 1996, "Diffusion, Viscosity, and Rugged Landscapes".
- 269. Wesleyan University, Chemistry Dept., 1996 Leermakers Symposium honoring John A. Pople, May 7, 1996, "Inherent Structures in Liquids and Solids".
- 270. Los Alamos Scientific Laboratory, Landscape Paradigm Workshop, May 13, 1996, "Interaction Potentials and Inherent Structures in Liquids, Glasses, and Crystals".
- 271. National Research Council, Board on Mathematical Sciences Workshop: Actions for the Mathematical Sciences in the Changed Environment, Alexandria, VA, May 17, 1996, "Physical Scientists are from Mars, Mathematicians are from Venus; How on Earth can We Communicate?".
- 272. A.C.S., Orlando, FL, Supercooled Liquids Symposium, Aug. 26, 1996, "Shear Viscosity and Diffusion in Supercooled Liquids".
- 273. Boston College, Chemistry Dept., Mar. 20, 1997, "Living in a Metastable World: A Theoretical Perspective".
- 274. N.I.S.T., Ray Mountain 60th Birthday Symposium, Apr. 10, 1997, "Inherent Structures and Condensed Matter Phenomena".
- 275. University of Pennsylvania, Center for Molecular Modeling, May 19, 1997, "Metastable States of Condensed Matter".
- 276. Gordon Conference on Chemistry and Physics of Liquids, Holderness School, Plymouth, NH, Aug. 5, 1997, "Tutorial on Rugged Potential Energy Landscapes and Inherent Structures".
- 277. N.I.S.T, Gaithersburg, MD, E.A. DiMarzio 65th Birthday Symposium, Nov. 6, 1997, "Some Remarks about Glass Transitions".
- 278. Princeton Materials Institute, Princeton University, Dec. 3, 1997,

- "Supercooling and Glass Formation".
- 279. Rutgers Statistical Mechanics Meeting, Widom and Kadanoff birthdays (70 and 60, respectively), Dec. 15, 1997, "Hijacking Solid State Concepts for Liquids".
- 280. A.P.S., Los Angeles, CA, Water Symposium, Mar. 17, 1998, "Resolving Vibrational and Inherent Structural Contributions to Water Properties".
- 281. A.P.S., Los Angeles, CA, Rugged Energy Landscapes Symposium, Mar. 17, 1998, "Insights and Predictions for Liquids from the Inherent Structure Viewpoint".
- 282. University of Chicago, Chemistry Dept. Colloquium, May 11, 1998, "Insights and Predictions for Liquids from the Inherent Structure Viewpoint".
- 283. West Coast Theoretical Chemistry Conference (WCTCC98), P.N.N.L., Richland, WA, June 22, 1998, "The 'Rugged Landscape' View of Condensed Matter Interactions and Statistical Mechanics".
- 284. Gordon Conference on Water and Aqueous Solutions, Holderness School, Plymouth, NH, Aug. 6, 1998, "Imagination, Hallucination, Obsession, and Water Science".
- 285. A.C.S. National Meeting, Boston, MA, 20th Anniversary Symposium for the Theoretical Chemistry Subdivision, Aug. 27, 1998, "The Inherent Structures Approach as an Interpretive Tool for Condensed Matter Theory".
- 286. 81st Semiannual Statistical Mechanics Meeting, Rutgers University, H.L. Frisch 70th Birthday Symposium, Dec. 15, 1998, "Hard Particles, Hard Problems".
- 287. National Research Council, Academy-Industry Program Forum, entitled: How Much Can We Rely on Mathematical Modeling?, at NAS building, May 10, 1999, "Mathematical Modeling in the Physical Sciences: Triumphs and Pitfalls".
- 288. Gordon Conference on Chemistry and Physics of Liquids, Holderness School, Plymouth, NH, Aug. 3, 1999, "Tutorial on Fundamental Concepts, Strategies, and Terminology in Liquids Science".
- 289. A.C.S. National Meeting, New Orleans, LA, Water and Water Clusters Symposium, Aug. 22, 1999, "Water Anomalies Analyzed from the 'Rugged Potential Landscape" Viewpoint".
- 290. University of California, Berkeley, Pitzer Memorial Symposium on Theoretical Chemistry, Jan. 12, 2000, "Inherent Structures and Their Excitations".
- 291. AAAS Annual Meeting, Washington, DC, Symposium entitled:

- The Role of Water for Life in Precarious Circumstances, Feb. 19, 2000, "Introductory Remarks".
- 292. N.I.S.T., Center for Theoretical and Computational Materials Science, Gaithersburg, MD, Feb. 24, 2000, "Inherent Structures and Their Excitations".
- 293. A.P.S., Minneapolis, MN, Mar. 24, 2000, "Møller-Plesset Convergence Issues in Computational Quantum Chemistry".
- 294. A.C.S., San Francisco, CA, Mar. 28, 2000, "Multidimensional Potential Surface for Water and Its Implications".
- 295. Columbia University, Chemistry Dept., B.J. Berne 60th Festschrift, June 2, 2000, "Molecular Dynamics and the Electron Correlation Problem".
- 296. NORM 2000 (regional A.C.S. meeting), Idaho Falls, ID, June 16, 2000, "Coupling Constant Singularities in Møller-Plesset Theory for Atoms and Molecules".
- 297. Pennsylvania State University, Chemical Engineering Dept., Nov. 28, 2000, "Glasses, the Third Law of Thermodynamics, and the Kauzmann Paradox".
- 298. Princeton University, Chemical Engineering Dept., Dec. 1, 2000, "Weird Science: The Gaussian Core Model".
- 299. Princeton University, Chemistry Dept., Dec. 7, 2000, "Glasses, the Third Law of Thermodynamics, and the Kauzmann Paradox".
- 300. A.C.S., San Diego, CA, a Karplus award session, Apr. 1, 2001, "Strip-Mining the Energy Landscape for Physical Insights".
- 301. Princeton University, Chemical Engineering Dept., Oct. 25, 2001, "Computational Sampling of Landscapes".
- 302. 87th Semiannual Statistical Mechanics Conference, Rutgers University, May 19, 2002, "Unusual Properties of the Classical Gaussian Core Model".
- 303. Norwegian University of Science and Technology (NTNU), Trondheim, Norway, 2002 Onsager Lecture, Sept. 19, 2002, "Polymers, Gaussian Core Model Dualities, and Inverse Melting".
- 304. CUNY, Physics Dept., Oct. 30, 2002, "Polymers, the Gaussian Core Model, and Inverse Melting".
- 305. 88th Semiannual Statistical Mechanics Meeting, Rutgers University, Dec. 16, 2002, "Inverse Melting".
- 306. Princeton University, Chemistry Dept., Water Festival, Jan. 6, 2003, "Multidimensional Potential Energy Landscape for Water, and Its Implications".
- 307. University of Kansas, Chemistry Dept., Apr. 4, 2003, "Glasses,

- Inverse Melting, and Protein Unfolding".
- 308. Yale University, Chemistry Dept., Onsager 100th Birthday Symposium, Dec. 5, 2003, "Inverse Melting and the Onsager Influence".
- 309. SUNY, Stony Brook, Chemistry Dept., George Stell's Retirement Symposium, Apr. 24, 2004, "Hard Sphere Packing Properties and Problems".
- 310. 91st Semiannual Statistical Mechanics Conference, Rutgers University, May 16, 2004, "Pair Correlation Function Realizability Problems".
- 311. University of California, Berkeley, David Chandler 60th Birthday Statistical Mechanics Meeting, Jan. 8, 2005, "Potentials, Structures, and Self Assembly".
- 312. Honolulu, HI, Pacifichem 2005, Dec. 19, 2005, "Inherent Structure View of Interface Properties".
- 313. University of California, Berkeley, 2006 Mini Statistical Mechanics Meeting, Jan. 15, 2006, "Hard Sphere Pair Correlation Via Scaled Particle Theory".
- 314. Yale University, Mechanical Engineering Dept., Apr. 5, 2006, "Inventing Particle Interactions for Targeted Self-Assembly".
- 315. Boston University, Chemistry Dept., Dec. 13, 2006, "Inventing Particle Interactions for Targeted Self-Assembly".
- 316. Princeton University, PCTS Workshop: Packing Problems, Classical Ground States, and Glasses, Apr. 12, 2007, "Configurational Polytopes Near the Jamming Limit".
- 317. 101st Semiannual Statistical Mechanics Conference, Rutgers University, May 10, 2009, "Modeling Prebiotic Appearance of Biological Chirality".
- 318. Faraday Discussion 146, Richmond, VA, Apr. 14, 2010, "Concluding Remarks".
- 319. A.C.S., 240th National Meeting, Boston, MA, 70th Birthday Symposium for Bruce Berne, Aug. 23, 2010, "Microscopic Kinetic Model Exhibiting Chiral Symmetry Breaking".
- 320. Princeton University, PCTS Workshop: Toward Unifying Concepts in the Physics of Aperiodic Systems, Oct. 15, 2011, "Glass Transition 'Issues'".
- 321. A.C.S., New Orleans, LA, Awards Symposium (Theoretical Chemistry Award to F.H.S.), Apr. 9, 2013, "Symmetry Breaking Models for Pre-Biotic Environments".
- 322. Mt. Hood, OR, FOMMS (Foundations of Molecular Modeling and

- Simulation) 2015 Meeting, July 22, 2015, Keynote Address, "Chiral Symmetry Breaking via Computer Simulation".
- 323. 115th Semiannual Statistical Mechanics Conference, Rutgers University, May 8, 2016, "Molecular Model for Chiral Symmetry Breaking".
- 324. A.C.S., San Francisco, CA, Hildebrand Award Symposium (for S. Torquato), Apr. 3, 2017, "Hard Spheres Under Gravity".
- 325. A.C.S., Washington, DC, Benjamin Widom's 90th Birthday Symposium, Aug. 20, 2017, "Chiral Symmetry Breaking in Isotropic Liquids".
- 326. Washington University, St. Louis, MO, 53rd Joseph W. Kennedy Lecture (first of two), May 3, 2018, "Metastable States of Water: A 'Landscape' View".
- 327. Washington University, St. Louis, MO, 53rd Joseph W. Kennedy Lecture (second of two), May 4, 2018, "Spontaneous Chiral Symmetry Breaking in Liquids".