

INVITED LECTURES

(list is complete from January 1997 to present, October 5, 2004)

1. 1971 (January), gave invited address at the Annual meeting of the ASL, Atlantic City, New Jersey, (1 hour).
2. 1971 (August), gave two invited addresses to the NATO Meeting at Cambridge University, England, on "Categoricity Relative to Ordinals," and "Philosophy of Set Theory," (each address 1 hour).
3. 1972 (Spring), gave invited address at Berkeley Logic Colloquium on "Beth's Theorem and Hyperdegrees of Borel Sets."
4. 1972 (Summer), gave invited address at AMS Meeting at Dartmouth, New Hampshire, on "Borel Sets and Hyperdegrees," (20 minutes).
5. 1972 (Summer), gave a series of invited talks at Cambridge University, England, on "Beth's Definability Theorem."
6. 1973 (Fall), gave invited address at the U.S.-Japan Conference of Proof Theory, Harvard University, (1 hour).
7. 1974 (Summer), invited speaker at the International Congress of Mathematicians, Vancouver, B.C., Canada, (50 minutes).
8. 1975 (February), gave invited talk at the Princeton University Logic Seminar on "Hilbert's Second Problem - Reformulations and Results," (1 1/2 hours).
9. 1975 (March), gave an invited address at the M.I.T. Set Theory Conference on "Categoricity with Respect to the Ordinals," (1 hour).
10. 1975 (Spring), invited speaker at AMS Meeting at St. Louis, Missouri, (20 minutes).
11. 1975 (Spring), invited panelist for joint symposium on "Church's Thesis" between the Association for Symbolic Logic and the American Philosophical Association, Chicago, Illinois, (2 hours).
12. 1975 (December), gave invited address at the Annual Meeting of the ASL, New York, on "The Logical Strength of Mathematical Statements," (1 hour).
13. 1976 (Summer), gave an invited address at the Rockefeller University Logic Conference on "A Programmatic Extension of Gödel's Incompleteness Theorems," (1 hour).

14. 1976 (Winter), gave a series of invited talks in seminar form at the Institute for Mathematical Studies in the Social Sciences of Stanford University on "The Syntax and Semantics of Mathematical Text."
15. 1977 (Spring), gave an invited lecture (Ω -lecture) at the meeting of the Ω -group at Oberwolfach on "The Future of Set Theory," (2 1/2 hours).
16. 1977 (Spring), gave two invited addresses at Oberwolfach, "Definability in Set Theory" meeting on " Π_2^1 Theorems Needing \aleph_1 Ranks and Π_3^1 Theorems Needing Morse-Kelley," and "Remarks on the Foundations of Mathematics," (each 1 1/2 hours).
17. 1977 (Summer), gave an invited lecture at the Generalized Recursion Theory II meeting at Oslo, Norway on "Descriptive Analysis," (1 hour).
18. 1977 (December), gave an invited lecture at the M.I.T. Logic Conference entitled "On the Incompleteness of Axiomatic Set Theory," (20 minutes).
19. 1977 (December), gave an invited lecture at the Yale Ω -group meeting on a book proposal entitled "Issues and Programs in Logic," (1 1/2 hours).
20. 1977 (December), gave an invited lecture (Ω -lecture) at the Yale Ω -group meeting entitled "On the Incompleteness of Axiomatic Set Theory."
21. 1978 (January), gave an invited lecture at the UCLA Logic Conference entitled "On the Incompleteness of Axiomatic Set Theory," (1 hour).
22. 1978 (January), gave an invited lecture at the Berkeley Logic Colloquium entitled "True, Combinatorial (As Opposed to Metamathematical) Statements of First Order Number Theory Independent of Higher Order Systems," (1 hour).
23. 1978 (February), gave an invited address at the University of Chicago series Contemporary Mathematics from an Historical Viewpoint, entitled "On the Incompleteness of Axiomatic Set Theory," (1 hour).

24. 1978 (June), gave an invited address at the Kleene symposium at Madison entitled "Classically and Intuitionistically Provably Recursive Functions," (1 hour).

25. 1980 (January), gave an invited address at the UCLA Logic Conference entitled "Borel Structures," (1 hour).

26. 1980 (September), gave an invited address at the Midwest Model Theory Seminar at Notre Dame entitled "Translatability and Relative Consistency," (1 1/2 hours).

27. 1981 (November), gave an invited lecture at the Computer Science Theory Seminar at Carnegie-Mellon University entitled "Complexity of Real Functions," (1 hour).

28. 1982 (May), gave an invited lecture to the University of Rochester Computer Science Department entitled "Function Composition and Intractability," (1 hour).

29. 1984 (May), gave an invited lecture at the Philadelphia Logic Colloquium at University of Pennsylvania entitled "Necessary Uses of Abstract Set Theory," (1 hour).

30. 1984 (October), gave an invited lecture at the Princeton Philosophy Department entitled "Programs in the Foundations of Mathematics," (2 hours).

31. 1984 (October), gave an invited lecture at the Mid-Atlantic Mathematical Logic Symposium held at Princeton entitled "New Necessary uses of Abstract Set Theory," (1 hour).

32. 1984 (November), gave an invited lecture at the AMS special session on mathematical logic - applications to analysis, entitled "Provably Asymptotically Intractable Problems," (30 minutes).

33. 1985 (June), gave an invited lecture at the UCSD Math Colloquium entitled "Necessary uses of abstract set theory," (1 hour).

34. 1985 (October), gave an invited lecture at the Mid-Atlantic Mathematical Logic Symposium held at Cornell entitled "Necessary uses of Abstract Set Theory," (1 1/2 hours).

35. 1985 (December), gave an invited lecture at the Cal Tech Math Colloquium entitled "Necessary uses of Abstract Set Theory," (1 hour).

36. 1985 (December), gave an invited lecture at the Pacific Logic Meeting held at Cal Tech entitled "Necessary uses of Abstract Set Theory," (1 1/2 hours).
37. 1986 (January), gave an invited lecture at the special session on determinacy and large cardinals at the Annual Winter AMS Meeting in New Orleans entitled "Necessary uses of Abstract Set Theory," (20 minutes).
38. 1986 (April), gave an invited lecture at the University of Minnesota Math Colloquium entitled "Necessary uses of Abstract Set Theory," (1 hour).
39. 1986 (March 15 - April 15), gave an invited series of 10 lectures at the University of Minnesota Logic Seminar entitled "Computational Complexity of Real Functions," (each 1 1/4 hours).
40. 1986 (April), gave an invited lecture at the University of Chicago Math colloquium entitled "Necessary uses of abstract set theory," (1 hour).
41. 1986 (December), gave an invited lecture at the Lehigh University Math Colloquium entitled "Necessary Uses of Abstract Set Theory," (1 hour).
42. 1986 (December), gave an invited lecture at the Mid-Atlantic Mathematical Logic Symposium held at Lehigh University entitled "Independence results in Contemporary Combinatorics," (1 hour).
43. 1986 (December), gave an invited lecture at the University of Chicago Logic Seminar entitled "Independence results in Contemporary Combinatorics," (1 1/2 hours).
44. 1986 (December), gave an invited lecture at the Princeton University Philosophy Department entitled "Independence results in Contemporary Combinatorics," (1 1/2 hours).
45. 1987 (August), gave an invited lecture at the Berkeley Logic Colloquium entitled "Completeness of intuitionistic logic," (1 hour).
46. 1987 (December), gave an invited lecture at the Harvard Mathematics Department entitled "Large integers, high rates of growth, and strong logical principles," (1 hour).

47. 1987 (December), gave an invited lecture at IBM Yorktown Heights entitled "Large integers, high rates of growth, and strong logical principles," (1 hour).

48. 1988 (February), gave an invited lecture at the University of Illinois Math Colloquium entitled "The incompleteness phenomena," (1 hour).

49. 1988 (April), gave a distinguished lecture series at the Indiana University Mathematics Department consisting of three lectures entitled "The incompleteness phenomena," "Borel functions and abstract set theory," and "Large integers, high rates of growth, and strong logical principles," (1 hour each).

50. 1988 (August), gave an invited lecture at the Centennial Celebration of the American Mathematical Society, entitled "The incompleteness phenomena," (1 hour).

51. 1989 (April), gave an invited lecture at the M.I.T. Logic meeting entitled "!" (1 hour).

52. 1989 (September), gave invited addresses to the U. Cal. Irvine workshop on the effective content of mathematical models in the social sciences, entitled "Foundations of absolute finitism," (2 hours), and "Reverse mathematics," (2 hours).

53. 1990 (January), gave invited lecture at the Berkeley Mathematics Colloquium entitled "The incompleteness phenomena," (1 hour).

54. 1990 (April), gave invited lecture at a meeting of the ASL at Penn State entitled "The incompleteness phenomena," (1 hour).

55. 1990 (May), gave invited lecture at MSRI in Berkeley, CA, entitled "Incompleteness: results and prospects," (1 1/2 hours).

56. 1993 (May), gave invited lecture at Sacks Symposium at MIT, entitled "Min Recursion and the necessary use of large cardinals," (1 hour).

57. 1996 (March), gave opening 1 hour lecture at the annual meeting of the ASL at UW, Madison, entitled "Finite functions and the necessary use of large cardinals," (1 hour).

58. A Complete Theory of Everything, Workshop on the Philosophy of Mathematics, UCLA Philosophy Department, January 27, 1997, 3 hours.
59. Unprovable Theorems in Discrete Mathematics, Mathematics Colloquium, Cal Tech Mathematics Department, January 28, 1997, 1 hour.
60. Transfer Principles in Set Theory, Logic Colloquium, UCLA Mathematics Department, January 31, 1997, 90 minutes.
61. Unprovable Theorems in Discrete Mathematics, General Mathematics Lecture, UCLA Mathematics Department, January 31, 1997, 1 hour.
62. Formalization of Mathematics, Artificial Intelligence Seminar, UCSD Computer Science Department, February 3, 1997, 2 hours.
63. Unprovable Theorems in Discrete Mathematics, Mathematics Colloquium, UCSD Mathematics Department, February 6, 1997, 90 minutes.
64. Ramsey's Theorem and Enormous Lower Bounds, Theory Seminar, UCSD Computer Science Department, February 7, 1997, 1 hour.
65. Transfer principles from finite to transfinite, Logic Seminar, UI Urbana Mathematics Department, February 25, 1997, 1 hour.
66. Ramsey's Theorem and Enormous Lower Bounds, Complexity theory seminar, UI Urbana Mathematics Department, February 27, 1997, 1 hour.
67. Unprovable Theorems in Discrete Mathematics, Mathematics Colloquium, UI Urbana Mathematics Department, February 27, 1997, 1 hour.
68. History of the Demonstrable Unremovability of Machinery, Logic Seminar, UI Urbana Mathematics Department, February 28, 1997, 1 hour.

69. Ramsey's Theorem and Enormous Lower Bounds, Theory Seminar, UC Berkeley Computer Science Department, April 7, 1997, 1 hour.
70. Transfer Principles in Set Theory, Logic Seminar, Stanford Mathematics Department, April 8, 1997, 75 minutes.
71. Formalization of Mathematics, SRI International, Menlo Park, CA, April 9, 1997, 75 minutes.
72. Unprovable Theorems in Discrete Mathematics, Mathematics Colloquium, UC Berkeley Mathematics Department, April 10, 1997, 1 hour.
73. Transfer Principles in Set Theory, Logic Seminar, UC Berkeley Mathematics Department, April 11, 1997, 90 minutes.
74. A Complete Theory of Everything, Logic Colloquium, UC Berkeley Logic, Philosophy, and Methodology of Science Group, April 11, 1997, 75 minutes.
75. A Complete Theory of Everything, Seminar in the Philosophical Problems in Logic, Princeton Philosophy Department, April 29, 1997, 3 hours.
76. Unprovable Theorems in Discrete Mathematics, Mathematics Colloquium, Princeton Mathematics Department, April 30, 1997, 1 hour.
77. Transfer Principles in Set Theory, Seminar in the Philosophy of Mathematics, Princeton Philosophy Department, May 1, 1997, 3 hours.
78. Ramsey's Theorem and Enormous Lower Bounds, Princeton DIMACS Seminar, Princeton Computer Science Department, May 1, 1997, 1 hour.
79. Transfer Principles in Set Theory, Logic Seminar, MIT Mathematics Department, May 7, 1997, 90 minutes.
80. Unprovable Theorems in Discrete Mathematics, Harvard/MIT/Brandeis/Northeastern Mathematics Colloquium, Harvard Mathematics Department, May 8, 1997, 1 hour.

81. Ramsey's Theorem and Enormous Lower Bounds, Theory of Computation Seminar, MIT Computer Science Department, May 9, 1997, 1 hour.
82. Axiomatizations of Set Theory, Logic Seminar, Stanford University, October 7, 1997, 75 minutes.
83. Unprovable Theorems in Discrete Mathematics, Stanford University Mathematics Colloquium, October 9, 1997, 1 hour.
84. From Russell's Paradox to Higher Set Theory, Stanford University Philosophy Colloquium, October 10, 1997, 2 hours.
85. Finite Trees and Large Cardinals, ASL Winter Meeting, Baltimore, Jan. 10, 1998, 45 minutes.
86. Unprovable Theorems in Discrete Mathematics, NYU Math Dept Colloq, April 26, 1999, one hour.
87. Complete Theory of Everything, NYU Philosophy Dept Seminar, April 28, 1999, 2 hours.
88. Enormous Integers in Real Life, NYU Math Dept Seminar, April 30, 1999, 1 hour.
89. The Future of Reverse Mathematics, AMS Summer Research Institute in Computability Theory, June 16, 1999, 45 minutes.
90. Some Decision Problems of Enormous Complexity, 14th Annual IEEE Symposium on Logic in Computer Science, LICS 99, Trento, Italy, plenary address, 1 hour, July 3, 1999.
91. Enormous Integers in Real Life, Math Dept Colloq, Univ of Michigan, October 5, 1999, 1 hour.
92. Discrete Independence Results, Logic Seminar, University of Michigan, October 6, 1999, 2 hours.
93. Enormous Integers in Real Life, Math Dept Colloq, Carnegie Mellon University, October 15, 1999, 1 hour.
94. Complete Theory of Everything, Logic Colloq, Carnegie Mellon University, October 14, 1999, 1 hour,

95. Issues in Foundations of Mathematics, I, Philosophy Dept Seminar, Carnegie Mellon University, October 12, 1999, 2 hours.
96. Issues in Foundations of Mathematics, II, Philosophy Dept Seminar, Carnegie Mellon University, October 13, 1999, 2 hours.
97. Enormous Integers in Real Life, Math Colloq, Cornell University, November 11, 1999, 1 hour.
98. Discrete Independence Results, Logic Seminar, Cornell University, November 11, 1999, 90 minutes.
99. Metamathematics of Ulm Theory and Reverse Mathematics, Logic Seminar, University of Chicago, November 16, 1999, 2 hours.
100. Enormous Integers in Real Life, Special Lecture, University of Chicago Math Dept, November 17, 1999, 1 hour.
101. Chains of Algebraic Sets, Topology Seminar, University of Chicago, November 18, 1999, 90 minutes.
102. Discrete Independence Results, New York City Logic Conference, November 20, 1999, 1 hour.
103. Panelist on panel discussion of Foundations of Mathematics, New York City Logic Conference, November 20, 1999, 2 hours.
104. The Mathematical Meaning of Mathematical Logic, The year 2000 celebration of the British Mathematical Colloquium, Leeds University, April 19, 2000, 1 hour Plenary Address.
105. Does Mathematics Need New Axioms?, Mathematics Colloq, UCSD Math Dept, May 30, 2000, 1 hour.
106. A Logician Looks at Program Verification, Theory Seminar, UCSD Computer Science Dept, May 31, 2000, 1 hour.
107. Foundations of Mathematics: past, present, and future, Seminar Talk, UCSD Philosophy Department, May 31, 2000, 2 hours.

108. Enormous Integers in Real Life, Special Combinatorics Talk, UCSD Math Dept, June 1, 2000, 1 hour.
109. Does Mathematics Need New Axioms?, panelist in panel discussion, ASL 2000 meeting, June 5, 2000, 2.5 hours.
110. Enormous Integers in Real Life, Research program talk, Park City Mathematics Institute on Computational Complexity, Institute for Advanced Study, July 24, 2000, 1 hour.
111. Enormous Integers, Combinatorics Seminar, University of Minnesota Mathematics Dept, September 21, 2000, 1 hour.
112. Does Normal Mathematics Need New Axioms?, Mathematics Colloq, Univ. of Minnesota, September 21, 2000, 1 hour.
113. Foundations of Mathematics: past, present, and future, Philosophy Colloq, Univ. of Minnesota, September 21, 2000, 2 hours.
114. 6 Lectures in Reverse Mathematics, University of Wisconsin Mathematics Dept, October 2 - 13, 2000, 1 hour each.
115. Enormous Integers, Logic Seminar, University of Wisconsin Mathematics Dept, October 3, 2000, 1.5 hours.
116. Does Normal Mathematics Need New Axioms?, Mathematics Colloq, Univ. of Wisconsin, October 4, 2000, 1 hour.
117. The Incompleteness Phenomena, Gelfand Group, Rutgers University Mathematics Dept, October 23, 2000, 1 hour.
118. Boolean Relation Theory, Logic Seminar, Rutgers Math Dept, October 23, 2000, 1.5 hours.
119. Term Rewriting and Computational Complexity, Complexity Theory Seminar, Institute for Advanced Study, 1 hour.
120. Degrees of Algebraic Approximations, Algebraic Geometry Seminar, Princeton University Math Dept, October 24, 2000, 1.5 hours.
121. Foundations of Mathematics: past, present, and future, Logic Seminar, Princeton Philosophy Dept, October 25, 2000, 2 hours.

122. Does Normal Mathematics Need New Axioms?, Mathematics Colloq, Princeton University, October 25, 2000, 1 hour.

123. How To Use A Large Cardinal, Computer Science Theory Seminar, Princeton University CS Dept, October 26, 2000, 1 hour.

124. Enormous Integers, Combinatorics Seminar, Rutgers University Math Dept, October 26, 2000, 1 hour.

125. Foundations of Mathematics: past, present, and future, Philosophy Colloq, Rutgers University, October 26, 2000, 2 hours.

126. Does Normal Mathematics Need New Axioms?, Mathematics Colloq, Rutgers University, October 27, 2000, 1 hour.

127. Axioms for Mathematics, Basic Notions Seminar, Mathematics Department, Harvard University, October 30, 2000, 1 hour.

128. Foundations of Mathematics: past, present, and future, Philosophy Department Colloquium, Harvard University, October 31, 2000, 1.5 hours.

129. How To Use A Large Cardinal, Logic Seminar, Mathematics Department, MIT, November 1, 2000, 1 hour.

130. Does Normal mathematics Need New Axioms?, joint Brandeis-Harvard-MIT-Northeastern Math Colloquium series, at MIT Math Dept, November 2, 2000, 1 hour.

131. A Complete Theory of Everything, MIT Philosophy Dept Discussion Group, November 3, 2000, 2 hours.

132. Foundations of Mathematics: past, present, and future, Philosophy Colloquium, Cornell University, November 15, 2000, 2 hours.

133. Does Normal Mathematics Need New Axioms?, Math Colloq, Cornell University, November 16, 2000, 1 hour.

134. Term Rewriting and Computational Complexity, Computer Science Theory Seminar, Cornell University, November 17, 2000, 1 hour.

135. Plenary Address, Nonstandard Set Theory and Related Topics, CUNY, December 2, 2000, 1 hour.
136. Boolean Relation Theory I, Descriptive Set Theory Seminar, Math Dept, U Cal at Berkeley, December 4, 2000, 2 hours.
137. Boolean Relation Theory II, Recursion Theory Seminar, Math. Dept, U Cal at Berkeley, December 4, 2000, 2 hours.
138. Does Normal Mathematics Need New Axioms?, Math Colloq, University of California at Berkeley, December 7, 2000, 1 hour.
139. The Future of F.O.M., Midwest Philosophy of Math Workshop, Carnegie Mellon University, December 9, 2000.
140. Foundations of Mathematics: past, present, and future, main speaker in 3 hour Symposium on Foundations of Mathematics, joint ASL/APA meeting, December 28-29, 2000, New York City.
141. Boolean Relation Theory, Computability Theory Meeting, Oberwolfach, Germany, January 23, 2001, 1 hour.
142. Sketch of Reversal, Computability Theory Meeting, Oberwolfach, Germany, January 23, 2001, 1 hour.
143. The Future of Reverse Mathematics, Computability Theory Meeting, Oberwolfach, Germany, January 25, 2001, 1 hour.
144. Boolean Relation Theory, Rutgers Maml's Meeting, February 18, 2001, 1 hour.
145. The Future of Reverse Mathematics, Special Session on Reverse Mathematics at the 2001 Annual Meeting of the ASL, University of Pennsylvania, March 11, 2001, 35 minutes.
146. Does Normal Mathematics Need New Axioms?, Mathematics Colloquium, University of Toronto, March 14, 2001, 1 hour.
147. Term Rewriting and Computational Complexity, Computer Science Lecture, University of Toronto, March 15, 2001, 1 hour.

148. A Complete Theory of Everything, Philosophy Lecture, University of Toronto, March 16, 2001, 1 hour.
149. Boolean Relation Theory, Boston Logic Conference, May 11, 2001, 1 hour.
150. Turing Degrees, Boston Logic Conference, May 12, 2001, 1 hour.
151. Research on ways out of Russell's Paradox, Conference on Russell Paradox, Munich, Germany, June 4, 2001, 1 hour.
152. Panel on Meaning of Set Theory, Russell Paradox Conference, Munich, Germany, June 4, 2001, 2 hours.
153. Foundations of Mathematics related to Mathematical Practice, Ecole Normale Superiere, June 6, 2001, in collaboration with Bernard Teissier, 90 minutes.
154. Boolean Relation Theory, Foundations of Mathematics Seminar, Paris VII, June 7, 2001, 90 minutes.
155. Recent Independence Results, Plenary Address, 2001 ASL European Summer Meeting, Vienna, Austria, August 6-11, 2001, Vienna, Austria, 1 hour.
156. Borel Selection, Set Theory Workshop, Vienna, Austria, August 13-17, 2001, 1 hour.
157. Recent independence Results, Special Session on Proof Theory and Foundations, AMS Regional Meeting, Columbus, Ohio, September 22, 2001, 20 minutes.
158. Term Rewriting and Computational Complexity, Stanford Computer Science Department, October 30, 2001, 1 hour.
159. Does Normal Mathematics Need New Axioms?, Mathematics Department Colloquium, Stanford University, November 1, 2001, 1 hour.
160. Current Status of Foundations of Mathematics, Philosophy Department Colloquium, Stanford University, November 2, 2001, 2 hours.
161. Almost Universal Languages, Midwest Philosophy of Math Workshop, Notre Dame, November 10, 2001, 1 hour.

162. Boolean Relation Theory, Logic Colloquium, Notre Dame, November 12, 2001. 1 hour.
163. Current Status of Foundations of Mathematics, Philosophy Department, Notre Dame, November 14, 2001, 2 hours.
164. A Complete Theory of Everything, Focus Seminar in Philosophy of Mathematics, Notre Dame, November 15, 2001, 2 hours.
165. Enormous Integers in Real Life, CCR, Princeton, New Jersey, November 19, 2001, 1 hour.
166. Term Rewriting and Computational Complexity, Computer Science Theory Seminar, UCSD, November 28, 2001, 1 hour.
167. Does Normal Mathematics Need New Axioms?, Mathematics Department, UCSD, November 29, 2001, 1 hour.
168. Enormous Integers in Real Life, CCR, San Diego, CA, November 29, 2001, 1 hour.
169. Current Status of Foundations of Mathematics, Colloquium, Logic and Philosophy of Science Department, Univ. Cal. at Irvine, November 30, 2001, 2 hours.
170. Borel Selection, Logic Seminar, Univ. Cal. at Irvine, November 30 - December 3, 2001, 1 hour.
171. Does Normal Mathematics Need New Axioms?, Mathematics Department Colloquium, Cal Tech, December 5, 2001, 1 hour.
172. Enormous Integers in Real Life, Combinatorics Seminar, Cal Tech, December 6, 2001, 1 hour.
173. Boolean Relation Theory, Logic Seminar, UCLA Mathematics Dept, December 7, 2001, 1 hour.
174. Programs in the Foundations of Mathematics, Philosophy of Math Workshop, UCLA Philosophy Dept, December 10, 2001, 3 hours.
175. Godel Lecture, Annual meeting of the ASL, Las Vegas, Nevada, June 1-4, 2002, 1 hour.

176. Invited Lecture, Conference in honor of Jan Mycielski, University of Colorado, Boulder, June 1-2, 2002.
177. Rademacher Lectures, Mathematics Department, University of Pennsylvania, September 16-20, 2002, 4 one hour lectures.
178. Invited lecture, Special Session, AMS meeting, Baltimore Maryland, January 15-18, 2003, 45 minutes.
179. Boolean Relation Theory, Set theory seminar, UC Berkeley, December 1, 2003, 1.5 hours.
180. Boolean Relation Theory, Logic Seminar, Stanford University, December 2, 2003, 1.5 hours.
181. Reflection, Center for Humanities, Stanford University, December 3, 2003, 1.5 hours.
182. Unprovable Theorems, Stanford Mathematics Colloquium, December 4, 2003, 1 hour.
183. Unprovable Theorems, University of Nevada at Las Vegas Mathematics Colloquium March 25, 2004, 1 hour.
184. RM Coding Theory, Special Session, AMS annual meeting, Atlanta, Georgia, January 6, 2005, 45 minutes.