

CHAUNCEY STARR:

SELECTED PAPERS AND SPEECHES (as of 4/16/07)

Dr. Starr has produced numerous publications, not including invited papers for meetings, congressional testimonies and lectures. The following have been selected as significant examples of his written work:

1. Starr, C., "An Investigation of the Cuprous-Oxide Rectifier and Photocell", Rensselaer Polytechnic Institute, 1935. PhD Thesis.
2. Starr, C., "The Pressure Coefficient of Thermal Conductivity of Metals", Physical Review, 1938.
3. Starr, C., F. Bitter, and A.R. Kaufmann, "The Magnetic Properties of the Iron Group Anhydrous Chlorides at Low Temperatures, I. Experimental", Physical Review, Issue 11, 1 December 1940.
4. Starr, C., "The Magnetic Properties of the Iron Group Anhydrous Chlorides at Low Temperatures, II. Theoretical", Physical Review, Issue 11, 1 December 1940.
5. Sodium Graphite Reactors, co-authored with R. W. Dickinson, (Reading, MA: Addison-Wesley Publishing Company, 1958)
6. Starr, C., "Social Benefit Versus Technological Risk", Science, Vol. 165, pages 1232-1238, September 19, 1969.
7. Starr, C., "Energy, Power and Society," Scientific American, September 1972.
8. Erdmann, R., Starr, C., "Risk/Benefit Considerations of Stratospheric Flight", Climate Impact Assessment Program, 1972.
9. Starr, C. and Richard Rudman, "Parameters of Technological Growth", Science, Vol. 182, pp. 358-364, October 26, 1973.
10. Starr, C. "Risk Analysis", American Power Conference, Proceedings, 35th Annual Meeting, Illinois Institute of Technology, Chicago, May 8-10, 1973.
11. Greenfield, M. A., Starr, C. "Public – Health Risks of Thermal Power Plants" Nuclear Safety v. 14 pp 267-274, Jul-Aug 1973.
12. Starr, C. "R & D", Edison Electric Institute Bulletin, Vol. 42, pp 232-233. Sep-Oct 1974.
13. Starr, C. "Energy Research and Development Alternatives for Future Supply" American Astronautical Society, Scientific Technology Series v. 35, Energy Symposium Energy Delta, Supply vs. Demand, 140th Annual Meeting of American Association for Advancement of Science, San Francisco, CA. pp 31-40 February 25-27, 1974.
14. Starr, C. "Strategy for National Electricity Production", Magnitude and Deployment Schedule of Energy Resources, Conference. Portland, Oregon, July 21-23 1975.
15. Starr, C. "Nuclear Safety and Protection" European Nuclear Conference, Proceedings of Nuclear Energy Maturity, Paris France. April 21-25 pp 97-105. New York. 1975.
16. Starr, C. "Year 200: Energy Enough?" EPRI Journal v. 1, pp 6-13 June 1976.
17. Starr, C. "Solar Technology Gets New Priority in ERDA Plan for Energy RD & D" Professional Engineer, vol. 45, pp16-19 August 1976.

18. "Philosophical Basis for Risk Analysis," co-authored with Richard Rudman and Chris Whipple, Annual Review of Energy 1, Palo Alto, CA, 1976.
19. Stanford, F, Starr, C. "Energy Use Proficiency: The Validity of Interregional Comparisons", Energy Use Management. From the Proceedings of the International Conference in Tucson, Arizona. October 24-28 1977.
20. Starr, C., "Technical Innovation: The Answer to Resource Depletion", presented to the International Conference on Energy Use Management, Tucson, AZ, October 24-28, 1977.
21. Starr, C. and Nilo Lindgren, "The First Five Years: Chauncey Starr and the Building of EPRI", EPRI Journal, January/February 1978.
22. Starr, C. "Energy Use Proficiency: The Validity of Interregional Comparisons" Energy Systems and Policy Vol. 2. pp 211-232 1978.
23. Starr, C. "Separation of Nuclear Power from Nuclear Proliferation." Presented at the 5th Energy Technology Conference in Washington DC February 27- March 1, 1978.
24. "The Growth of Limits," in Proceedings of the Edison Centennial Symposium on Science, Technology and the Human Prospect, New York: Pergamon Press, 1979.
25. "Risk Benefit Analysis and Its Relation to the Energy/Environment Debate", in Directions in Energy Policy: A Comprehensive Approach to Energy Resource Decision-Making (Cambridge, MA: Ballinger Publishing Co., 1979.
26. Starr, C. "Economic Growth, Employment and Energy." Energy Policy Vol. 7 pp 2-22 March 1979.
27. Starr, C. "Three Mile Island Nuclear Accident: The Other Lesson", Presented at the Conference on Three Mile Island Nuclear Accident: Lessons and Implications, New York April 8, 1980.
28. "Risks of Risk Decision" with C. Whipple, Science 208 (6 June 1980) 1114.
29. Starr, C. and R. Balzhiser, "Assessment of Electric Power Generation Options and Issues", presented at the World Energy Conference, Munich, Germany, September 1980.
30. Starr, C. "Risk Criteria for Nuclear Power Plants: A Pragmatic Proposal." Risk Analysis, Vol.1 pp 113-120, June 1981.
31. Starr, C. "Coping with Nuclear Power Risks: A National Strategy", Presented at the Conference of Analysis of Actual vs. Perceived Risks/Society for Risk Analysis International Workshop, Washington DC, June 1 1981.
32. Starr, C. "Nuclear Power and World Environmental Impacts", Presented to the 1981 International Gas Research Conference, Los Angeles. September 28, 1981.
33. Starr, C., Whipple, C. "Coping With Nuclear Power Risks: The Electric Utility Incentives", Proceedings, IEE Part D: Control Theory and Applications pp 1-7, 23 January – February 1982.
34. Starr, C. and M. Searl, "Generating Capacity Requirements for Economic Growth 1990-2000", Public Utilities Fortnightly, April 29, 1982.
35. Starr, C. "Electrification, Economic Growth and Uranium Power", Proceedings of the 7th International Symposium held by the Uranium Institute, London, England September 1, 1982.
36. Starr, C., "Economics Growth, Electricity and Nuclear Power", Atomic Industrial Forum, Plenary Session, 1983 Annual Conference, San Francisco, CA, October 30-November 3, 1983.

37. Starr, C., "Evolutionary Science and Ethics: A Regulatory Challenge", Lloyd's Of London Press Symposium and Workshop on Radiation and Energy, New York, NY, December 8, 1983.
38. Starr, C., "Electricity", U.S. Committee on Energy Awareness, New York, NY, December 8, 1983.
39. Starr, C., "Risk Management, Assessment, and Acceptability", Society for Risk Analysis, Knoxville, TN, October 1, 1984; published in Risk Abstracts, Vol. 2, No. 2.
40. Starr, C. and C. Whipple, "A Perspective on Health and Safety Risk Analysis," Management Science 30, No. 4, April 1984, pp 452-463.
41. Starr, C., "Managing Electricity Production Effects," in Risks and Benefits of Energy Systems, Proceedings of an International Symposium organized by the International Atomic Energy Agency with the United Nations Environment Programme and the World Health Organization, Julich, FRG, April 9-13, 1984, Vienna: International Atomic Energy Agency, 1984.
42. Starr, C., Whipple, C. "Perspective on Health and Safety Risk Analysis", Management Science V. 30 pp 452-463, April 1984.
43. Starr, C., "Uranium Power and Horizontal Proliferation of Nuclear Weapons", Science 224 (1 June 1984) pp 952-957
44. Starr, C., "Risk Management, Assessment, and Acceptability", Journal of Risk Evaluation and Management 1986.
45. Starr, C. "US Nuclear Power Performance", Energy Policy V. 12 pp 253-258, September 1984.
46. Society for Risk Analysis, Knoxville, TN, October 1, 1984; published in Risk Abstracts, Vol. 2, No. 2
47. Starr, C., "Industrial Cooperation in R&D," Research Management XXVIII, No. 5, September/October 1985.
48. Starr, C., "Risk Analysis and Risk Management," in Risk Analysis in the Private Sector, ed. C. Whipple and V.T. Covello, New York: Plenum, 1985.
49. Starr, C. and M. Searl, "U.S. Electricity Needs Versus Planned Capacity Additions," International Scientific Forum, Ft. Lauderdale, Florida, November 27, 1984; and Nuclear Power Seminar, Paris, February 14, 1985.
50. Starr, C., "Creating Nuclear Power in a Developing Industrial Country," Israel Nuclear Society 1985 Annual Meeting, Beer-Sheva, Israel, February 6, 1985.
51. Starr, C., "Risk Uncertainty and Risk Management," Plenary Session, International ANS/ENS Topical Meeting on Probabilistic Safety Methods and Applications, San Francisco, February 25, 1985.
52. Starr, C., "Form Value of Electricity," Introduction to the American Power Conference meeting, Chicago, April 22, 1985.
53. Starr, C., "Energy Investments in the 1980s," Keynote address, Stanford University Executive Seminar, July 7, 1985.
54. Starr, C., "Challenging Existing Technologies," 1985 Policy Issues Forum, Aspen, Colorado, August 1985.
55. Starr, C., "Management Significance of Risk Analysis," Nuclear Power Management Conference, Stanford University, August 15, 1985.
56. Starr, C., "Dealing with Uncertainty in Risk Regulation," Society for Risk Analysis, Washington DC, October 1985.

57. Starr, C., "Stages in the Management of Risks," 9th Annual International Scientific Forum on the Silent Energy Revolution, Copenhagen, October 1985.
58. Starr, C., "EPRI and the Search for Excellence," American Nuclear Society Winter Meeting, San Francisco, November 1985.
59. Starr, C., "Economic Growth, Social Change and Energy," Workshop on Energy-Economics and Utility Planning, Taipei, Taiwan, December 1985.
60. Starr, C., "The United States in 2000: Power-less or Power-full?" Canadian Nuclear Association 25th Anniversary Meeting, Ottawa, June 3, 1985; and Los Alamos National Laboratory Colloquium Presentation, Los Alamos, NM, May 6, 1986.
61. Starr, C., "The Engineer in a Technological Society," Tulane University Commencement Address, New Orleans, LA, May 17, 1986.
62. Starr, C., "Planning Energy Systems: The Effects of Uncertainty," International Symposium on the Total Risk and Benefit Impact of Energy Alternatives, University of Waterloo, Waterloo, Ontario, Canada, May 20-23, 1986.
63. Starr, C., "The Risk of Living," Stanford University Seminar, May 29, 1986.
64. Starr, C., R. Balzhiser and F. Culler, "The Influence of Research and Development on Future Trends," 13th Congress of the World Energy Conference, Cannes, France, October 5-11, 1986.
65. Starr, C., "Engineering Diversity in Risk Analysis," AAES Risk Analysis Panel Meeting, Arlington, VA, October 23, 1986.
66. Starr, C. and C. Whipple, "The Strategic Defense Initiative and Nuclear Proliferation from a Risk Analysis Perspective", Yale University Seminar on International Security and Arms Control Program, New Haven, February 10, 1987.
67. Starr, C., "The Management of Human Risk," Science and Technology Advisory Group, Republic of China, Taipei, R.O.C. March 24, 1987.
68. Starr, C. and M. Searl, "An Energy Assurance Strategy," Council on Alternate Fuels Research, Alternate Fuels Research Institute, San Francisco, April 9, 1987.
69. Starr, C. and C. Whipple, "Understanding Nuclear Power Safety Goals in Light of the Chernobyl Accident," International Atomic Energy Association Coordinated Research Meeting, Rez, Czechoslovakia, April 13-17, 1987.
70. Starr, C., "Technology Innovation and Electricity Futures," Energy Technology 1987, Annual Meeting, Washington DC, April 14, 1987.
71. Starr, C., "Public Acceptance and a Functional Perspective on Risk Analysis in Nuclear Power," Probabilistic Safety Analysis 1987 Annual Meeting, Zurich, Switzerland, August 31-September 3, 1987.
72. Starr, C., "Creating Nuclear Power in a Developing Industrial Country," Pakistan Engineers and Scientists Association, Stanford, CA, September 19, 1987.
73. Starr, C., "Reshaping Fission for Social Acceptability," International Scientific Forum on Fueling the 21st Century, Moscow, U.S.S.R., October 5, 1987.
74. Starr, C. and C. Whipple, "The Strategic Defense Initiative and Nuclear Proliferation from a Risk Analysis Perspective," Society for Risk Analysis Annual Meeting, Houston, November 1-4, 1987.

75. Starr, C., "Risk Assessment and Emerging Technologies," AAES-NRC Workshop on Management of Technology, Washington DC, November 4-5, 1987.
76. Starr, C., "Global Climate Change and the Electric Power Industry," National Climate Program Office Strategic Planning Seminar, Washington DC, January 5, 1988.
77. Starr, C., "Implications of Continuing Electrification," Inaugural Symposium sponsored by the National Academy of Engineering on "An Energy Agenda for the 1990s," Arnold and Mabel Beckman Center, Irvine, California, May 11, 1988.
78. Starr, C. and C. Whipple, "Acceptable Risk in Regulation: The Impact of Recent Court Decisions on Public Policy for Risk Management," Society for Risk Analysis Annual Meeting, Washington DC, November 1, 1988.
79. Starr, C. "National Energy Policy. A Retrospective" Energy Systems and Policy. Vol. 13. pp 51-61 1989.
80. Starr, C. with M. Searl, "Global Projections of Energy and Electricity," American Power Conference Annual Meeting, Chicago, Illinois, April 24, 1989.
81. Starr, C., "Advanced Reactors: A Retrospective," American Nuclear Society/National Institute of Standards and Technology Conference, "Fifty Years with Nuclear Fission," Gaithersburg, Maryland, April 26, 1989.
82. Starr, C., "Future Needs for Nuclear Power," IAEA/ANL International Workshop on "Safety of Nuclear Installations of the Next Generation and Beyond," Chicago, Illinois, August 28-31, 1989.
83. Starr, C. "Public Acceptance of Nuclear Power," luncheon address, IAEA/ANL International Workshop on "Safety of Nuclear Installations of the Next Generation and Beyond, Chicago, Illinois, August 30, 1989.
84. Starr, C., "Twenty Year Retrospective on Risk Management," presented at GPU Nuclear Corp. Risk Management Symposium, Parsippany, New Jersey, September 6, 1989.
85. Starr, C., "Risk in Developing Nations" presented at the Society for Risk Analysis, San Francisco, CA, October 30, 1989.
86. Starr, C., "Is Nuclear Power a Viable Option for Helping to Control Greenhouse Warming?" Submitted on request to the EPA Journal, January 18, 1990.
87. Starr, C., and M. Searl, "Global Energy and Electricity Futures: Demand and Supply Alternatives", Conference on "The Reality and Consequences of a Global Climate Warming" sponsored by the University of Tulsa and the International Council of Tulsa, April 3, 1990, Tulsa, Oklahoma.
88. Starr, C., "Organizing for Risk Management" Conference on "The New Public Health, 1990" Section EHO2, Environmental and Public Health, State of California, Los Angeles, April 25, 1990.
89. Starr, C., "Global Energy and Electricity Futures", The Atlantic Council, Energy Policy Book, Chapter VI, June 29, 1990.
90. Starr, C., and M. Searl, "Global Energy and Electricity Futures: Demand and Supply Alternatives", Energy Systems and Policy, June 29, 1990.
91. Starr, C., EPRI Retrospective "An Introspective and Prospective View: The More Things Change, The More They Stay The Same". EPRI Advisory Council, San Francisco, California, August 5, 1990.
92. Starr, C., and M. Searl, "Role of Energy and Electricity Alternatives", Prepared for the ENS/ANS-FORATOM Meeting in Lyon, France September 23-28, 1990.
93. Starr, C.; M. Searl, "Global Energy, Electricity Futures, and Climate Change" (1990).

94. Starr, C., "Risk Management Commentary" for Dr. D. Allan Bromley Assistant to the President for Science and Technology, Washington D. C., September 3, 1990.
95. Starr, C., "Energy and Social Development" W.B. Lewis Memorial Lecture, University of Toronto, Canada October 19, 1990.
96. Starr, C., and M. Searl, "Global Energy and Electricity Futures", The American Power Conference Chicago, Illinois, April 29 to May 1, 1991.
97. Starr, C., Searl, M F; Alpert, S; "Energy Sources: A Realistic Outlook; Science, V.256, p 981-986, 1992.
98. Starr, C. "Global Energy and Electricity Futures", Energy V. 18 no. 3, p 225-237. March 1993.
99. Starr, C. "Atmospheric CO2 Residence Time and the Carbon Cycle." Energy v.18 p1297-1310 December 1993.
100. Starr, C., "Global Climate, Energy and Quality-of-Life", USEA Global Climate Change Forum, Washington, D.C., January 20, 1994.
101. Starr, C., "Myths & Realities in Energy/Environmental Challenges", Joint Institute for Energy & Environment, Univ. of Tennessee, Knoxville, TN, April 19, 1994.
102. Starr, C., "World Environment and Energy", Rene Dubos Forum, New York, May 19, 1994.
103. Starr, C., "Atmospheric CO2 Response to Mitigation", June 20, 1994.
104. Starr, C., "A Personal History: Technology to Energy Strategy", Ann. Rev. Energy Environ. 1995, Vol. 20, pp 31-44.
105. Starr, C., "The Liberation of the Environment", Vol. 125, No. 3, of the Proceedings of the American Academy of Arts and Sciences, Summer 1996.
106. Parkins, W.E., Krumhansel, J. A., Starr, C., "Insurmountable Engineering Problems Seen As Ruling Out Fusion Power", Physics Today, March 1997.
107. Starr, C., "A Physicist's Journey in The Nuclear Power World", American Physical Society, Annual Meeting March 20-24, 2000.
108. Starr, C., "The Ultimate Uncertainty - Intergenerational Planning" Risk Analysis, v.20, No.6, pp.793-800, 2000.
109. Jong, K, Starr, C. "Global Electrification and Nuclear Power: Toward Sustainable Growth in the New Millennium", Presented at the 3rd International Symposium on Global Environment and Nuclear Energy Systems Centennial Memorial Hall (Genes-3). Tokyo, Japan 2000.
110. Starr, C., "Hypothetical Fears and Quantitative Risk Analysis", Risk Symposium, May 31-June 2, 2001, Beckman Center, Irvine, CA.
111. Starr, C., "Electric Power Emission Constraints, and the Precautionary Principle", May 26, 2003. EEI Electric Perspective.
112. Starr, C., "EPRI Turns 30: A Retrospective and Prospective View", EPRI Journal, July 2003.
113. Starr, C., "The Precautionary Principle versus Risk Analysis", Risk Analysis, Vol. 23, No. 1, pp 1-3 2003.
114. Starr, C., "A Power Grid for the Hydrogen Economy." Scientific American v. 295 p 76-83, July 1, 2006.