

VITA

Name: Thomas R. Stewart

Current Position: Research Professor Emeritus, Center for Policy Research, and Department of Public Administration and Policy, Rockefeller College of Public Affairs and Policy

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Education: Ph.D. in Measurement and Differential Psychology,
University of Illinois
Master of Arts in Psychology,
University of Illinois
Bachelor of Arts in Psychology,
College of Wooster

Previous Positions: Director, Center for Policy Research (1997-2001, 2007-2010)
Scientist III, Environmental and Societal Impacts Group, National Center for Atmospheric Research, Boulder, Colorado (1980-1986)
Associate Professor, Graduate School of Public Affairs, University of Colorado at Denver (1974-1981)
Faculty Fellow, National Association of Schools of Public Affairs and Administration, serving in the Office of Coastal Zone Management, National Oceanic and Atmospheric Administration, Washington, D.C. (1978-1979)
Research Associate, Center for Research on Judgment and Policy, Institute of Cognitive Science, University of Colorado (1970-1988)
Assistant Professor, Division of Management Science, Graduate School of Business Administration, University of Colorado (1972-1974)

Teaching interests:

Judgment and decision making

Research interests:

My research interests include the methods and theory of research on judgment and decision making and the application of that research to problems in public policy. My methodological and theoretical interests include methods for analyzing judgments and decomposing judgmental skill within the framework provided by Brunswikian psychology and Social Judgment Theory. Applied interests include expert judgment in medicine, weather forecasting, global environmental change; and expert uncertainty and disagreement in policy formation. Interest in the role of scientific and technical expertise in public policy, has led to studies of medical waste policy, regional air quality policy, visual air quality judgments, use and value of weather forecasts, environmental risk analysis, and management of dynamic systems.

Recent Funded Research:

- "Effects of Base Rate, Environmental Uncertainty, Values, and Feedback on Accuracy and Performance in Selection and Detection Decision Making," National Science Foundation
- "Understanding individual differences in judgmental performance," Elise Axelrad Weaver, co-PI, National Science Foundation (Decision, Risk and Management Sciences Program)
- "Development and evaluation of tasks for clinical judgment analysis," (National Board of Medical Examiners)
- "Societal value of improved precipitation forecasts: A case study in surface transportation," (Forecast Systems Laboratory, National Oceanic and Atmospheric Administration)
- "Key elements in the decision to limit extraordinary medical care," (American College of Physicians, Upstate New York Chapter, and the Ware Foundation)
- "An investigation of judgmental reliability," National Science Foundation (Decision, Risk and Management Sciences Program)
- "Development and evaluation of a decision model for psychiatric assessments in emergency rooms," Center for Technology in Government, University at Albany
- "Managing dynamic policy systems: Mental models and performance," National Science Foundation (Decision, Risk and Management Sciences Program)
- "Expert Judgment in Weather Forecasting: Reliability, Validity and Amount of Information," National Science Foundation (Decision, Risk and Management Sciences Program and Division of Atmospheric Sciences)
- "Scientists' uncertainty and disagreement about global climate change," National Science Foundation (Human Dimensions of Global Environmental Change Initiative)
- "A study of expert judgment in a natural setting," National Science Foundation (Decision, Risk and Management Sciences Program and Division of Atmospheric Sciences)

Recent Professional Activities:

- Invited speaker, Department of Public Administration, Shih Hsin University, Taipei, Taiwan, March 2011
- Invited speaker, Department of Public Administration, Chengchi University, Taipei, Taiwan, March 2011
- Invited keynote speaker, Annual Conference of the Prognostics and Health Management Society, San Diego, September, 2009
- Invited seminar, "Decision threshold learning with incomplete feedback," RPI Issues in Cognitive Science series. Department of Cognitive Science, Rensselaer Polytechnic Institute (2007)
- Invited seminar, "Sources of error in clinical decision making," University of Nebraska Medical Center, April 6, 2005.
- Keynote speaker, "Uncertainty, Prediction, and Error in Water Management," Water Law, Science and Policy Conference, University of Nebraska-Lincoln, April 7-8, 2005.
- Short course organizer and faculty, "Brunswikian psychology and social judgment theory." Society for Medical Decision Making annual meetings, October, 2004, 2005
- Organizer, NSF Workshop on Extreme Event Decision Making, Arlington, VA, April 29-30, 2001 (<http://www.albany.edu/cpr/xedm/>)
- Organizer, Hudson River Environmental Forum, 2000-2001 (<http://www.albany.edu/cpr/href/>)
- Affiliated Faculty, Information Science Ph.D. Program, University at Albany (November 2000- present)
- Visiting lecturer, Masaryk University, Brno, Czech Republic (November, 1999)
- Member, Societal Impacts Committee, American Meteorological Society (January 1999 to January 2002)
- Brunswik Society (<http://brunswik.org/>) meeting organizer, program committee, newsletter editor, webmaster, list moderator (1994-2005)
- Faculty, Seminar on Human Judgment and Social Policy, Fundação do Desenvolvimento Administrativo (FUNDAP), São Paulo, Brazil (June 9-13, 1997)
- Invited Plenary Speaker, Association for Pharmacoeconomics and Outcomes Research, Philadelphia, April 24, 1997. Topic "The Psychology of Judgment and Decision Making"
- Visiting scientist, University of Tours and Ecole Pratique des Hautes Etudes, Tours, France, June, 1996
- Member, American Meteorological Society Committee on Artificial Intelligence Applications to Environmental Science (December 1992 - January 1994)
- Panel member, Human Dimensions of Global Environmental Change, National Science Foundation (1990 - 1992)
- Co-editor, Special issue on expert judgment and expert systems, *Organizational Behavior and Human Decision Processes* (1992)
- Reviewer: *Psychological Bulletin*; *Psychological Review*; *Journal of Experimental Psychology: Applied*; *Organizational Behavior and Human Decision Processes*; *Medical Decision Making*; *Policy Studies Journal*; *Management Science*; *Climatic Change*; *Behavioral Decision Making*; *System Dynamics Review*; *Journal of Research in Personality*; *Science, Technology, and Human Values*;

Thinking and Reasoning; Risk Analysis; Science; Natural Hazards Review; IEEE Transactions on Systems, Man, and Cybernetics; International Journal of Selection and Assessment; Bulletin of the American Meteorological Society; International Journal of Industrial Ergonomics, Water Resources Research, Meteorological Applications

Proposal Reviewer: National Science Foundation, (Decision, Risk and Management Sciences Program; Ethics and Values in Science Program), National Oceanic and Atmospheric Administration (Economics and Human Dimensions of Climate Fluctuations Program and Office of Global Programs), Foundation for Innovation (Canada), Member of site visit teams and panels for National Science Foundation

Professional Affiliations:

Judgment and Decision Making Society
European Association for Decision Making
Society for Medical Decision Making
American Psychological Society

Publications:

Doherty, Michael E., Stewart Thomas R., and Holzworth, R. James (2021), “Noise” and Social Judgment Theory: A Commentary on Kahneman, Sibony and Sunstein. *Brunswik Society Newsletter*, **36**, 56-66. http://www.brunswik.org/notes/Noise_and_SJT_Doherty-Stewart-Holzworth-2021.pdf

Holzworth, R. J., Stewart, T. R., and Mumpower, J. L. (2018) Detection and Selection Decisions with Conditional Feedback: Interaction of Task Uncertainty and Base Rate. *Journal of Behavioral Decision Making*, doi: 10.1002/bdm.2062. [Online Abstract](#)

González-Vallejo, C., Stewart, T. R., Lassiter, G. D., & Weindhardt, J. M. (2014). How necessary is the unconscious as a predictive, explanatory, or prescriptive construct? *Behavioral and Brain Sciences*, 37(1), 28.

Stewart, T. R., Mumpower, J. L., & Holzworth, R. J. (2012). Learning to make selection and detection decisions: The roles of base rate and feedback. *Journal of Behavioral Decision Making*, 25(5), 522-533. Online: <http://onlinelibrary.wiley.com/doi/10.1002/bdm.755/abstract>

Weaver, E. A., & Stewart, T. R. (2012). Dimensions of judgment: Factor analysis of individual differences. *Behavioral Decision Making (Special Issue: Individual Differences in Decision-Making Competence)*, 25(4), 402-413. Online: <http://onlinelibrary.wiley.com/doi/10.1002/bdm.748/abstract>

Ghaffarzadegan, N., & Stewart, T. R. (2011). An extension to the constructivist coding hypothesis as a learning model for selective feedback when the base rate is high. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, **37**(4), 1044-1047.

Stewart, T. R. (2009). The lens model. In M. Kattan (Ed.), *Encyclopedia of Medical Decision Making*. Thousand Oaks, CA: Sage Publications, Inc.

- Stewart, T. R. (2009). Social judgment theory. In M. Kattan (Ed.), *Encyclopedia of Medical Decision Making*. Thousand Oaks, CA: Sage Publications, Inc.
- Martinez-Moyano, I. J., Rich, E., Conrad, S., Andersen, D. F., & Stewart, T. R. (2008). A Behavioral Theory of Insider-Threat Risks: A System Dynamics Approach. *ACM Transactions on Modeling and Computer Simulation*, **18**(2), Article 7.
- Horrey, W. J., Wickens, C. D., Strauss, R., Kirlik, A., Stewart, T.R. (2006). Supporting situation assessment through attention guidance and diagnostic aiding: The benefits and costs of display enhancement on judgment skill. In Kirlik, A. (Ed.) *Adaptive Perspectives on Human–Technology Interaction: Methods and Models for Cognitive Engineering and Human-Computer Interaction*. New York: Oxford University Press.
- Stewart, T. R., Pielke, R. Jr., Nath, R. (2005). Reply to Glahn. *Bulletin of the American Meteorological Society*, **86**(10) 1487-1488.
- Stewart, T. R., & Mumpower, J. L. (2004). Detection and selection decisions in the practice of screening mammography. *Journal of Policy Analysis and Management*, **23**(4), 908-920.
- Stewart, T. R., Pielke, R. Jr., Nath, R. (2004). Understanding user decision making and value of improved precipitation forecasts: Lessons from a case study. *Bulletin of the American Meteorological Society*. **85**(2), 223-235.
- Sorum, P. C., Stewart, T., Mullet, E., González-Vallejo, C., Shim, J., Chasseigne, G., Muñoz Sastre, M. T., and Grenier, B. (2002). Does choosing a treatment depend on making a diagnosis? U.S. and French physicians' decision making about acute otitis media. *Medical Decision Making*, **22**(5), 394-402.
- Mumpower, J. L., Nath, R., and Stewart, T. R. (2002) Affirmative action, duality of error, and the consequences of mispredicting the academic performance of African-American college applicants. *Journal of Policy Analysis and Management*, **21**(1), 63-77.
- Sorum, P. C., Shim, J., Chasseigne, G., Mullet, E., Muñoz Sastre, M. T., Stewart, T., González-Vallejo, C. (2002). Do Parents and Physicians Differ in Making Decisions About Acute Otitis Media? *The Journal of Family Practice*, **51**, 51-57.
(http://www.jfponline.com/content/2002/01/jfp_0102_00051.asp)
- Hammond, K. R. and Stewart, T. R. (Eds.) (2001). *The Essential Brunswick: Beginnings, Explications, Applications*. New York: Oxford University Press.
- Stewart, T. R., (2001) The lens model equation. In K. R. Hammond and T. R. Stewart (Eds.), *The Essential Brunswick: Beginnings, Explications, Applications*. New York: Oxford University Press, 357-362.
- Stewart, T. R. (2001). Improving reliability of judgmental forecasts. In J. S. Armstrong (Ed.), *Principles of Forecasting: A Handbook for Researchers and Practitioners*. Norwell, MA: Kluwer Academic Publishers, 81-106.
- Stewart, T. R. (2000). Uncertainty, judgment, and error in prediction. In Sarewitz, D., Pielke, R. Jr., and Byerly, R. Jr. (Eds.), *Prediction: Decision Making and the Future of Nature*. Washington D. C.: Island Press, 41-57.
- Stewart, T. R. (2000). Modernization: The Challenge Continues (Guest editorial). *Weatherzine*, Number 20, February; <http://www.esig.ucar.edu/socasp/zine/>.

- Stewart, T. R. (1999). Commentary on "The Delphi technique as a forecasting tool: Issues and analysis" by Rowe and Wright. *Journal of Forecasting*, **15**, 380-381.
- Way, B. B., Allen, M. H., Mumpower, J. L., Stewart, T. R., & Banks, S. M. (1998). Interrater agreement among psychiatrist in psychiatric emergency assessments. *Am J Psychiatry*, **155**(10), 1423-8.
- González-Vallejo, C., Sorum, P.C., Stewart, T.R., Chessare, J.B., Mumpower, J. (1998). A study of physicians' diagnostic judgments and treatment decisions for acute otitis media in children. *Medical Decision Making*, **18**, 149-162.
- Chasseigne, G., Mullet, E., & Stewart, T. R. (1997). Aging and multiple cue probability learning: The case of inverse relationships. *Acta Psychologica*, **97**, 235-252.
- Stewart, T. R., Roebber, P. J. and Bosart, L. F. (1997). The importance of the task in analyzing expert judgment. *Organizational Behavior and Human Decision Processes*, **69**, 205-219.
- Pielke, R.A., Kimpel, J., *et al.* (1997). Societal aspects of weather: Report of the Sixth Prospectus Development Team of the U.S. Weather Research Program to NOAA and NSF. *Bulletin of the American Meteorological Society*, **78**, 867-876
- Stewart, T. R. (1997). Forecast value: Descriptive decision studies. In R. W. Katz & A. H. Murphy (Eds.), *Economic value of weather and climate forecasts* (pp. 147-181). New York: Cambridge University Press.
- Mumpower, J. L. and Stewart, T. R. (1996). Expert judgement and expert disagreement. *Thinking and Reasoning*, **2**, 191-211.
- Joyce, C. R. B. and Stewart, T. R. (1994). Applied research on judgment: What should happen. *Acta Psychologica*, **87**, 217-227.
- Stewart, T. R. and Lusk, C. M. (1994). Seven components of judgmental forecasting skill: Implications for research and the improvement of forecasts. *Journal of Forecasting*, **13**, 575-599. (Reprinted in Connolly, T., Arkes, H. R., and Hammond K. R., Eds., (2000) *Judgment and Decision Making: An Interdisciplinary Reader, Second Edition*. New York: Cambridge University Press.)
- Heideman, K.F., Stewart, T.R., Moninger, W.R. and Reagan-Cirincione, P. (1993). The weather information and skill experiment (WISE): The effect of varying levels of information on forecast skill. *Weather and Forecasting*, **8**, 25-36.
- Stewart, T.R., Moninger, W.R., Heideman, K.F., and Reagan-Cirincione, P. (1992). Effects of improved information on the components of skill in weather forecasting. *Organizational Behavior and Human Decision Processes*, **53**, 107-134.
- Shanteau, J. and Stewart, T.R. (1992). Why study expert decision making? Some historical perspectives and comments. *Organizational Behavior and Human Decision Processes*, **53**, 95-106.
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- Stewart, T.R. (1991). Scientists' uncertainty and disagreement about global climate change: A psychological perspective, *International Journal of Psychology*, **26**, 565-573.
- Stewart, T.R. and Reagan-Cirincione, P. (1991). Coefficients for debiasing forecasts. *Monthly Weather Review*, **119**, 2047-2051.
- Stewart, T.R. (1990). A Decomposition of the correlation coefficient and its use in analyzing forecasting skill. *Weather and Forecasting*, **5**, 661-666.
- Lusk, C.M., Stewart, T.R., Hammond, K.R. and Potts, R.J. (1990). Judgment and decision making in dynamic tasks: The case of forecasting the microburst, *Weather and Forecasting*, **5**, 627-639.
- Irwin, J.R., Schenk, D., McClelland, G.H., Schulze, W.D., Stewart, T.R., and Thayer, M. (1990). Urban visibility values: Some experiments in the use of the contingent valuation method. In C.V. Mathai (ed.) *Visibility and Fine Particles, Transactions of the Air and Waste Management Association*.
- Stewart, T.R., Moninger, W.R., Grassia, J., Brady, R.H. and Merrem, F.H. (1989). Analysis of expert judgment and skill in a hail forecasting experiment, *Weather and Forecasting*, **4**, 24-34.
- Stewart, T.R., Curran T.P., de Alteriis M., Mumpower J.L., and Svitek L.L. (Eds.) (1989). *Perspectives on Medical Waste*. Albany: Nelson A. Rockefeller Institute of Government, State University of New York.
- Downton, M.W., Stewart, T.R. and Miller, K.A. (1988). Estimating heating and cooling needs: Per capita degree days. *Journal of Climate and Applied Meteorology*, **27**, 84-90.
- Taylor, J.G., Stewart, T.R., and Downton, M.W. (1988). Perceptions of drought in the Ogallala aquifer region. *Environment and Behavior*, **20**, 150-175.
- Stewart, T.R. and Joyce, C.R.B. (1988). Increasing the power of clinical trials through judgment analysis. *Medical Decision Making*, **8**, 33-38.
- Stewart, T.R. (1988). Judgment analysis. In Brehmer, B. and Joyce, C.R.B. (Eds.) *Human Judgment: The Social Judgment Theory View*, Amsterdam: North-Holland.
- Taylor, J.G., Downton, M.W. and Stewart, T.R. (1988). Adapting to environmental change: Perceptions and farming practices in the Ogallala aquifer region. In Whitehead, E.E., Hutchinson, C.F., Timmerman, B.N. and Varady, R.G. (Eds.) *Arid Lands: Today and Tomorrow*, Boulder: Westview Press.
- Stewart, T.R. (1987). The Delphi technique and judgmental forecasting. *Climatic Change*, **11**, 97-113.
- Stewart, T.R. (1987). Developing an observer-based measure of environmental annoyance. In Harry S. Koelega (Ed.) *Environmental Annoyance: Characterization, Measurement, and Control*. Amsterdam: Elsevier.
- Stewart, T.R. and McMillan, C., Jr. (1987). Descriptive and prescriptive models of judgment and decision making: Implications for knowledge engineering. In J. Mumpower, L. Phillips, O. Renn, and V.R.R. Uppuluri (Eds.) *Expert Judgment and Expert Systems*. New York: Springer-Verlag.

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- Middleton, P., Stewart, T.R., and Leary, J. (1985). On the use of human judgment and physical/chemical measurements in visual air quality management. *Journal of the Air Pollution Control Association*, **35**, 11-18.
- Stewart, T.R. and M. Glantz (1985). Expert judgment and climate forecasting: A methodological critique of "Climate Change to the Year 2000." *Climatic Change*, **7**, 159-183.
- Stewart, T.R., Middleton, P., Downton, M., and Ely, D. (1984). Judgments of photographs vs. field observations in studies of perception and judgment of the visual environment. *Journal of Environmental Psychology*, **4**, 283-302.
- Middleton, P., Stewart, T.R. and Ely, D. (1984). Physical and chemical indicators of urban visual air quality judgments. *Atmospheric Environment*, **18**, 861-870.
- Stewart, T.R., Katz, R.W., and Murphy, A.H. (1984). Value of weather information: A descriptive study of the fruit frost problem. *Bulletin of the American Meteorological Society*, **65**, 126-137.
- Stewart, T.R., Dennis, R.L., and Ely, D.W. (1984). Citizen participation and judgment in policy analysis: A case study of urban air quality policy. *Policy Sciences*, **17**, 67-87.
- Middleton, P., Stewart, T.R., and Dennis, R.L. (1983). Modeling human judgments of visual air quality. *Atmospheric Environment*, **17**, 1015-1021.
- Dennis, R., Stewart, T.R., Middleton, P., Downton, M., Ely, D., and Keeling, C. (1983). Integration of technical and value issues in air quality policy formation: A case study. *Socio-economic Planning Sciences*, **17**, 95-108.
- Stewart, T.R., Middleton, and Ely, D. (1983). Urban visual air quality judgments: Reliability and validity. *Journal of Environmental Psychology*, **3**, 129-145.
- Middleton, P., Stewart, T.R., Dennis, R.L., and Ely, D. (1983). Implications of NCAR's urban visual air quality assessment method for pristine areas. In Rowe, R.D. and L.C. Chestnut (Eds.) *Air Quality and Visual Resources in National Park and Wilderness Areas*, Boulder: Westview Press.
- Stewart, T.R. (1983). Visual air quality values: Public input and informed choice. In Rowe, R.D. and L.C. Chestnut (Eds.) *Air Quality and Visual Resources in National Park and Wilderness Areas*, Boulder: Westview Press.
- Mumpower, J., Middleton, P., Dennis, R., Stewart, T.R. and Viers, V. (1981). Visual Air Quality Assessment: Denver Case Study. *Atmospheric Environment*, **12**, 2433-2441.
- Beal, D., Gillis, J.S. and Stewart, T.R. (1978). The lens model: Computational procedures and applications. *Perceptual and Motor Skills, Monograph Supplement*, **46**, 3-28.
- Stewart, T.R. (1976). Components of correlations and extensions of the lens model equation. *Psychometrika*, **41**, 101-120.
- Stewart, T.R., and Gelberd, L. (1976). Analysis of judgmental policy: A new approach for citizen participation in planning. *Journal of the American Institute of Planners*, **42**, 33-41.

- Wilsted, W.D., Hendrick, T.E., and Stewart, T.R. (1975). Judgment policy capturing for bank loan decision: An approach to developing objective functions for goal programming models. *Journal of Management Studies*, **12**, 210-215.
- Adelman, L., Stewart, T.R., and Hammond, K.R. (1975). A case history of the application of social judgment theory to policy formulation. *Policy Sciences*, **6**, 137-159.
- Stewart, T.R., West, R.E., Hammond, K.R., and Kreith, F. (1975). Improving human judgment in technology assessment. *Technology Assessment*, 37-43.
- Cook, R.L., and Stewart, T.R. (1975). A comparison of seven methods for obtaining subjective descriptions of judgmental policy. *Organizational Behavior and Human Performance*, **13**, 31-45.
- Stewart, T.R., Joyce, C.R.B., and Lindell, M.K. (1975). New analyses: application of judgment theory to physicians' judgments of drug effects. In K.R. Hammond and C.R.B. Joyce (Eds.), *Psychoactive Drugs and Social Judgment: Theory and Research*. New York: Wiley.
- Gillis, J.S., Stewart, T.R., and Gritz, E. (1975). New procedures: Use of interactive computer graphics and terminals with psychiatric patients. In K.R. Hammond and C.R.B. Joyce (Eds.), *Psychoactive Drugs and Social Judgment: Theory and Research*. New York: Wiley.
- Stewart, T.R. (1975). Policy capturing. In C. McMillan, Jr., *Mathematical Programming*. New York: Wiley.
- Hammond, K.R., Stewart, T.R., Brehmer, B., and Steinmann, D. (1975). Social judgment theory. In M.F. Kaplan and S. Schwartz (Eds.), *Human Judgment and Decision Processes: Formal and Mathematical Approaches*. New York: Academic Press.
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- Lindell, M.K., and Stewart, T.R. (1974). Effects of redundancy in multiple-cue probability learning. *The American Journal of Psychology*, **87**, 393-398.
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- Stewart, T.R. (1973). Attitude measurement and the linear model. *Educational and Psychological Measurement*, **33**, 285-290.
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- Knowles, B.A., Hammond, K.R., Stewart, T.R., and Summers, D.A. (1971). Positive and negative redundancy in multiple cue probability judgments. *Journal of Experimental Psychology*, **90**, 157-159.
- Summers, D.A., Stewart, T.R., and Oncken, G.R. (1968). Interpersonal conflict in heterocultural dyads. *International Journal of Psychology*, **3**, 191-196.

Proceedings:

- Stewart, T. R., Pielke, R. A., Jr., and Nath, R. (2001). Understanding user decision making and value of improved precipitation forecasts: Lessons from a case study. World Weather Research Program/World Meteorological Organization Workshop on the Verification of Quantitative Precipitation Forecasts, Prague, 14-16 May 2001.
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- Stewart, T. R. (1997). Descriptive decision studies of the societal impact of weather and climate information. In J. Roger A. Pielke (Ed.), *Workshop on the Social and Economic Impacts of Weather* (pp. 115-121). Boulder, CO (April 2-4): National Center for Atmospheric Research (Electronic version: <http://www.esig.ucar.edu/socasp/weather1/stewart.html>).
- Way, B. B., Allen, M., Mumpower, J., Stewart, T., and Banks, S. (1997) Inter-rater agreement among doctors in psychiatric emergency assessments. American Psychiatric Association Annual Meeting, San Diego, May 22, 1997.
- Stewart, T.R. and Richardson, G.P. (1994). The role of cognition and simulation modeling in government response to creeping environmental phenomena. In Glantz, M. H. (Ed.), *Creeping Environmental Phenomena and Societal Responses to Them*. Proceedings of a Workshop held 7-9 February 1994 in Boulder, Colorado. Environmental and Societal Impacts Group, National Center for Atmospheric Research, Boulder, Colorado. pp. 11-22.
- Richardson, G.P., Andersen, D.A., Maxwell, T.A., and Stewart, T.R. (1994). Foundations of mental model research. *Proceedings of the 1994 International System Dynamics Conference*, Stirling, Scotland, July 11-15. Vol: *Problem-Solving Methodologies*, pp. 181-192.
- Andersen, D.A., Maxwell, T.A., Richardson, G.P., and Stewart, T.R. (1994). Mental models and dynamic decision making in a simulation of welfare reform. *Proceedings of the 1994 International System Dynamics Conference*, Stirling, Scotland, July 11-15. Vol: *Social and Public Policy*, pp. 11-28.
- Bernstein, D. S, Richardson, G.P., and Stewart, T.R. (1994). A pocket model of global warming for policy and scientific debate. *Proceedings of the 1994 International System Dynamics Conference*, Stirling, Scotland, July 11-15. Vol: *Organizational Environments*, pp. 8-18.
- Stewart, T.R., Reagan-Cirincione, P., and Moninger, W.R. (1992). Coping with the meteorological data explosion through simulated group forecasting. *Preprint volume, Fourth AES/CMOS Workshop on Operational Meteorology*, Whistler, B.C., September, 15-18, 39-48.
- Walker, D.C., Moninger, W.R. and Stewart, T.R. (1992). Shootout-91: A strategy for integrating computer assistance into the operational environment. *Preprint volume, Fourth AES/CMOS Workshop on Operational Meteorology*, Whistler, B.C., September, 15-18, 49-58.

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- Ely, D. Leary, J.T., Stewart, T.R., and Ross, D.M. (1991). The establishment of the Denver Visibility Standard. *Proceedings of the Air and Waste Management Association, 84th Annual Meeting*, Vancouver, B.C., June 16-21, 1991.
- Andersen, D.F., Chung, I.J., Richardson, G.P., and Stewart, T.R. (1990). Issues in Designing Interactive Games Based on System Dynamics Models. *System Dynamics '90: Proceedings of the 1990 International Systems Dynamics Conference*, Chestnut Hill, Massachusetts, July 10-13, 1990.
- Roberts, W., W.R. Moninger, B. deLorenzis, E. Ellison, J. Flueck, J.C. McLeod, C. Lusk, P.D. Lampru, R. Shaw, T.R. Stewart, J. Weaver, K.C. Young, S. Zubrick (1989). A field test of artificial intelligence systems applied to the problem of severe weather forecasting: Shootout-89, *Proceedings, 11th Conference on Probability and Statistics and 12th Conference on Weather Analysis and Forecasting*, Monterey CA, October 2-6, 1989, Boston: American Meteorological Society, J59-J64.
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- Dhir, K.S. and Stewart, T.R. (1984). Models and management: Bridging the gap. *Proceedings of the National Meeting of the American Institute for Decision Sciences*.
- Summers, D.A., and Stewart, T.R. (1968). Regression models of foreign policy beliefs. *Proceedings, 76th Annual Convention, American Psychological Association*, 195-196.

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