

CURRICULUM VITAE

DETLOF VON WINTERFELDT

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SUMMARY

Detlof von Winterfeldt is the Deputy Dean and Professor of Public Policy and Management in the School of Policy, Planning, and Development (SPPD) at the University of Southern California. For the past twenty-five years, he has been active in teaching, research, university administration, and consulting. He has taught courses in statistics, decision analysis, management science, risk management, and human judgment and decision-making. His research interests are in the foundation and practice of decision and risk analysis as applied to technology and environmental management problems. He is the co-author of two books and author or co-author of over one hundred articles and reports on these topics. His administrative experiences include serving as Associate Dean for Faculty Affairs and Research at SPPD, as director of USC's Institute for Civic Enterprise and as chairman of USC's Systems Science Department. As a consultant he has applied decision and risk analysis to many management problems of government and private industry. He has served on several committees and panels of the National Science Foundation (NSF) and the National Research Council (NRC), including a recent appointment to the NRC's Board on Mathematical Sciences and their Applications. In 2000, he received the Ramsey Medal for distinguished contributions to decision analysis from the Decision Analysis Society of INFORMS.

EDUCATION

1976	Ph.D.,	University of Michigan, Ann Arbor - Mathematical Psychology.
1971	M.A.,	University of Hamburg, Germany - Psychology.
1969	B.A.,	University of Hamburg, Germany - Psychology.

PROFESSIONAL EXPERIENCE

2003-	Deputy Dean, School of Policy, Planning, and Development, University of Southern California
2001-2003	Associate Dean for Faculty Affairs and Research, School of Policy, Planning, and Development, University of Southern California
1998-	Professor of Public Policy and Management, School of Policy, Planning, and Development, University of Southern California
1998-	Director, Institute of Civic Enterprise, School of Policy, Planning, and Development, University of Southern California
1987-1997	Professor of Systems Science, Department of Systems Science, Institute of Safety and Systems Management, University of Southern California
1989-1990	Visiting Professor, Institute for Mathematical Behavioral Sciences, University of California at Irvine
1987-1988	Chairman, Department of Systems Science, Institute for Safety and Systems Management, University of Southern California
1986-1988	Chairman, Research Center, Institute of Safety and Systems Management, University of Southern California
1982-1987	Associate Professor, Department of Systems Science, University of Southern California
1978-1986	Research Associate, Social Science Research Institute, University of Southern California
1975-1978	Research Scholar, International Institute for Applied Systems Analysis, Laxenburg, Austria

EDITORIAL BOARDS

2003-	Department Editor for Decision Analysis, <i>Management Science</i>
1998-	Member, Editorial Board, <i>Risk Decision and Policy</i>
1997-2000	Area Editor, Social Science and Decision Making, <i>Risk Analysis</i>
1991-	Member, Editorial Board, <i>Journal of Behavioral Decision Making</i>
1988-	Member, Editorial Board, <i>Risk Abstracts</i>
1988-	Member, Editorial Board, <i>Risk Analysis</i>
1989-1994	Associate Editor, <i>Management Science</i>
1982-1987	Associate Editor, <i>Operations Research</i>

MEMBERSHIPS AND POSITIONS IN PROFESSIONAL SOCIETIES

1998-2000	Chairman, Decision Analysis Society
1996-2001	Member, Society for Medical Decision Making
1996-1998	Chairman-Elect, Decision Analysis Society
1995-1996	Council Member, Decision Analysis Society
1995-	Member, INFORMS
1985-	Member, Society for Judgment and Decision Making
1983-	Member, Society for Risk Analysis

1980-1995 Member, Operations Research Society of America
 1980-1995 Member, Institute of Management Sciences

SELECTED SCIENTIFIC PANELS AND REVIEW BOARDS

2003- Member, Board on Mathematical Sciences and their Applications,
 National Research Council
 2003- Member, Senior Advisory Panel, Center for Global Security Research,
 Lawrence Livermore National Laboratories and the International
 Institute for Strategic Studies, Washington DC and London
 2003- Member, Committee on the Transportation of Nuclear Waste, National
 Research Council
 2002- Member, Committee on the Characterization and Transportation of
 Transuranic Waste, National Research Council
 2001-2002 Member, Committee on Alternatives for Controlling the Release of
 Solid Materials from Nuclear Regulatory Commission-Licensed
 Facilities, National Research Council
 2000 Member, Panel on the EPA/NSF Program for Environmental Statistics,
 National Science Foundation and Environmental Protection Agency
 2000-2001 Member, Committee for the Impact of Low-Level Radioactive Waste
 Management Policy on Biomedical Research in the United States,
 National Research Council
 1998-2000 Member, Panel on Protecting the Health of U.S. Deployed Forces.
 Board on Army Science and Technology, National Research Council
 1997-1999 Consultant, Committee on DOE's Decision-Making Processes, Board
 on Radioactive Waste Management, National Research Council
 1995 Member, Selection Panel for the National Center on Environmental
 Decision Making and the National Center for Global Change, NSF
 1990-1992 Member, Advisory Panel for the Decision, Risk, and Management
 Science Program, National Science Foundation
 1990 Chairman, Committee of Visitors, Social and Economic Sciences,
 National Science Foundation
 1989 Member, Selection Panel for the Presidential Young Investigator
 Awards (Social and Economic Sciences), National Science Foundation
 1987-1988 Member, Committee on Risk Perception and Risk Communication,
 National Academy of Sciences, Washington, DC
 1985-1986 Consultant, Board on Radioactive Waste Management, National
 Research Council, Washington, DC

SELECTED AWARDS

2000 Frank P. Ramsey Medal for Distinguished
 Contributions to the Field of Decision Analysis,
 Decision Analysis Society of INFORMS
 2000 Distinguished Service Award, Society for Risk
 Analysis
 1999 Robert Biller Outstanding Faculty Award, SPPD, USC

- 1997 Finalist, Franz Edelman Award for Achievement in Operations
Research and the Management Sciences
- 1994 Fellow, Society for Risk Analysis
- 1987 USC Faculty Recognition Award, Phi Kappa Phi, Honorable
Mention (for the book *Decision Analysis and Behavioral Research*)

SELECTED CONSULTANCIES

- 2002- U.S. Department of Energy, Washington, DC
- 1998 Science Applications International Corporation, Abingdon, MD
- 1996-2002 California Department of Health Services, Berkeley, CA
- 1993-1996 U.S. Department of Energy, Washington, DC
- 1993-1996 Fluor Daniel Inc., Irvine, CA
- 1991-1995 Argonne National Laboratory, Argonne, IL
- 1990-1996 Los Alamos National Laboratory, Los Alamos, NM
- 1989- Battelle-Pacific Northwest Laboratories, Richland, WA
- 1988-1989 Chevron Corporation, San Francisco, CA
- 1987- Sandia National Laboratories, Albuquerque, NM
- 1987 Southern California Edison Co., Los Angeles, CA
- 1986- Electric Power Research Institute, Palo Alto, CA
- 1985 Environmental Protection Agency, Washington, DC
- 1984-1990 Nuclear Research Facility, Juelich, Germany
- 1982-1996 Commission of the European Communities, JRC, Ispra, Italy
- 1980 U.S. General Accounting Office, Washington, DC

RESEARCH CONTRACTS AND GRANTS

(Approximate Dollar Amounts in Brackets)

- 1999- Principal Investigator. "Hospital rehabilitation decision analysis." Multidisciplinary Center for Earthquake Engineering Research (MCEER), State University of New York at Buffalo (NSF Center), Buffalo, New York. (\$160,000)
- 1999-2002 Co-Principal Investigator. "Improving infrastructure decisions." Institute for Civil Infrastructure Systems (ICIS), New York University (NSF Center), New York. (\$100,000)
- 1998-2002 Principal Investigator, "Probability elicitation with groups of experts." National Science Foundation, Washington, DC. (\$220,000)
- 1993-1996 Principal Investigator, "Utility theories with status quo and reference effects." National Science Foundation, Washington, DC. (\$125,000)
- 1991-1996 Principal Investigator, "Integrated EMF Risk Management Project." Electric Power Research Institute, Palo Alto, CA. (\$750,000)
- 1990-1993 Co-Principal Investigator, "Analysis of strategic government decisions." National Science Foundation, Washington, DC. (\$150,000)
- 1989-1991 Principal Investigator, "Communicating multiattribute risks." Risk Sciences Institute, International Life Sciences Institute, Washington, DC. (\$90,000)

- 1989 Principal Investigator, "Development of a decision framework for improving the environmental impact statement." Council on Environmental Quality, Washington, DC. (\$25,000)
- 1988-1989 Co-Principal Investigator, "Risk scales." Electric Power Research Institute, Palo Alto, CA. (\$60,000)
- 1986-1989 Co-Principal Investigator, "A methodology to evaluate the indirect health and safety risks of regulation." National Science Foundation, Washington, DC. (\$90,000)
- 1986-1988 Principal Investigator, "The significance of value structures for formal evaluation." National Science Foundation, Washington, DC. (\$150,000)
- 1986-1988 Co-Principal Investigator, "Development of a framework to constructively involve stakeholders in a comprehensive evaluation of alternatives involving complex technological issues." Electric Power Research Institute, Palo Alto, CA. (\$60,000)
- 1985-1987 Principal Investigator, "Risk communication." Environmental Protection Agency, subcontract with Putnam-Hayes, Washington, DC. (\$25,000)
- 1985-1989 Principal Investigator, "Description, review and evaluation of the scientific bases of assumptions made in risk assessment." National Science Foundation, Washington, DC. (\$300,000)
- 1985-1987 Principal Investigator, "Communicating risk information to laypersons: a review and assessment of the literature." National Science Foundation, Washington, DC. (\$150,000)
- 1985-1986 Co-Principal Investigator, "Development of a workbook for structuring objectives." Electric Power Research Institute, Palo Alto, CA. (\$50,000)
- 1984-1986 Principal Investigator, "Risk perception, risk acceptance, and risk communication: An assessment of the state of knowledge." National Science Foundation, Washington, DC. (\$150,000)
- 1982-1983 Principal Investigator, "On the relevance of the value-utility distinction for decision analysis." National Science Foundation, Washington, DC. (\$75,000)
- 1982 Co-Principal Investigator, "Development of a multiattribute prioritization system for evaluating research products and systems." US. Army Corps of Engineers, Champaign, IL. (\$25,000)
- 1981-1983 Co-Principal Investigator, "Towards developing methods for understanding public responses to risky technologies." National Science Foundation, Washington, DC. (\$250,000)
- 1981-1982 Co-Principal Investigator, "Validation of multiattribute utility structures." Advanced Research Projects Agency, Washington, DC.
- 1979-1981 Co-Principal Investigator, "Decision analysis and behavioral decision theory." Office of Naval Research, Washington, DC. (\$100,000)
- 1979-1980 Co-Principal Investigator, "Development of a methodology for the evaluation of risk estimates for nuclear electric power plants." Sandia National Laboratories, Albuquerque, NM. (\$75,000)

PUBLICATIONS: Books

von Winterfeldt, D. & Edwards, W. (1986). *Decision analysis and behavioral research*. New York: Cambridge University Press.

Keeney, R.L., Renn, O., von Winterfeldt, D., & Kotte, U. (1984). *Die Wertbaumanalyse. Entscheidungshilfe fuer die Politik* (Value tree analysis: Decision support for policy making). Munich, West Germany: High Tech Press.

PUBLICATIONS: Professional Articles, Chapters and Reports

2003 and Under Review

Bruneau, M., Chang, S.E., Eguchi, R.T., Lee, G., O'Rourke, T.D., Reinhorn, A., Shinozuka, M., Tierney, K., Wallace, W.A., & von Winterfeldt, D. A Framework to Quantitatively Assess and Enhance the Seismic Resilience of Communities, *Earthquake Spectra*, in press.

von Winterfeldt, D., Eppel, T., Adams, J., Neutra, R., & DelPizzo, V. (2002). Managing potential health risks from electric powerlines: A decision analysis caught in controversy. *Risk Analysis*, under review.

von Winterfeldt, D., Roselund, N., & Kitsuse, A. (2002). Framing earthquake retrofitting decisions: The case of hillside homes in Los Angeles. *Risk Analysis*, under review.

2002

Dillon, R., John, R. & Winterfeldt, D. (2002). Assessment of cost uncertainties for large technology projects: A methodology and an application. *Interfaces: An International Journal of The Institute for Operations Research and the Management Sciences*. 32, 52-66.

von Winterfeldt, D. & Benthien, M. (2002). Using decision analysis to improve seismic rehabilitation decisions. Working Paper, Institute for Civic Enterprise, University of Southern California, Los Angeles, CA.

2001

Keeney, R.L. & von Winterfeldt, D. (2001). Appraising the precautionary principle – a decision analysis perspective. *Journal of Risk Research*, 4, 191-202.

von Winterfeldt, D. (2001). *Decisions with multiple stakeholders and conflicting objectives*. In E. Weber, J. Baron, and G. Loomes (eds.) *Conflict and tradeoffs in decision making*. New York: Cambridge University Press, 259-299.

von Winterfeldt, D. & Zimmerman, R. (2001). Performance measurement for managing infrastructure assets. In *Health Monitoring and Management of Civil Infrastructure Syses*. In S. Chase and E. Aktan (eds.) Bellingham: Society of Photo-Optical Instrumentation Engineers, 28-36.

von Winterfeldt, D. Power grid and land use policy analysis: A guide for decision makers and stakeholders. Technical Report, California Department of Health Services, Oakland, CA.

2000

Dillon, R. & von Winterfeldt, D. (2000). An analysis of the implications of a magnetic field threshold limit value on utility practices. *American Industrial Hygiene Association Journal*, Vol. 61, 1, 2000, pp 76-81.

McKone, T. & von Winterfeldt, D. (2000). Defining the decision framework and the value of exposure information in military deployments. In T. E. McKone, B.M. Huey, E. Downing, and L. Duffy (eds). *Strategies to protect the health of the deployed U.S. forces*. Washington, D.C: National Academy Press, 2000.

Edwards, W. & von Winterfeldt, D. On cognitive illusions and their implications. In T. Connolly, H.R. Arkes, and K.R. Hammond (eds.) *Judgment and decision making*. New York: Cambridge University Press, 2000, pp. 592-620 (reprinted from Southern California Law Review).

1999

von Winterfeldt, D. (1999). *The value of electromagnetic fields research*. Technical Report, Irvine: Decision Insights, Inc.

Eppel, T., Seaver, D.A., & von Winterfeldt, D. *Single Shell Tank Leak Determination:*

Technical Background. Technical Report, Battelle Pacific Northwest Laboratory, Richland, WA: Battelle PNNL.

1998

von Winterfeldt, D. & Schweitzer, E. (1998). An assessment of tritium supply alternatives in support of the U.S. nuclear weapons stockpile. *Interfaces: An International Journal of The Institute for Operations Research and the Management Sciences*, 28, 92-112. (Finalist, 1997 Franz Edelman Award Competition for Achievement in Operations Research and the Management Sciences).

von Winterfeldt, D. (1998). On the relevance of behavioral decision research for the practice of decision analysis. In J. Shanteau, B. Mellers, and D. Schum (eds.) *Decision research from Bayesian approaches to normative systems: Reflections on the contributions of Ward Edwards*. Norwell, MA: Kluwer.

1997

von Winterfeldt, D., Chung, N.-K., Luce, R.D. & Cho, Y. (1997). Tests of consequence monotonicity in decision making under uncertainty. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 23, pp. 1-23.

Hora, S. & von Winterfeldt, D. (1997). Nuclear waste and future societies: A look into the deep future. *Technological Forecasting and Social Change*, 56, pp. 155-170.

von Winterfeldt, D. (1997). Empirical tests of Luce's rank- and sign-dependent utility theory. In A.A.J. Marley (ed.) *Choice, decision, and measurement: Essays in honor of Duncan Luce*. New Jersey: Lawrence Erlbaum, pp. 25-44.

Keeney, R.L., & von Winterfeldt, D. (1997). An evaluation of our national policy to manage nuclear waste from power plants. In M. Karwan, J. Spronk, and J. Wallenius (eds.) *Essays in decision making: A volume in honor of Stanley Zionts*. New York: Springer, pp. 371-390.

Keeney, R.L. and von Winterfeldt, D. *Value tradeoffs for the Hanford Tank Waste Remediation System (TWRS) Program*. Report No. PNNL-11724, UC-630. Richland, WA: Pacific Northwest National Laboratory.

1996

- von Winterfeldt, D. & Trauger, T. (1996). Managing electromagnetic fields from home grounding systems. *Bioelectromagnetics*, 17, pp. 71-84.
- Gregory, R. & von Winterfeldt, D. (1996). The effects of electromagnetic fields from transmission lines on public fears and property values. *Journal of Environmental Management*, 48, pp. 1-14.
- von Winterfeldt, D. and Keeney, R.L. (1996). *Managing magnetic fields: Insights from decision analysis*. EPRI Report No. TR-107187. Palo Alto: Electric Power Research Institute.
- Keeney, R.L. & von Winterfeldt, D. (1996). *Value-based performance measures for Hanford Tank Waste Remediation System (TWRS) program*. Technical Report No. PNNL-10946. Richland, WA: Battelle Pacific Northwest Laboratory.
- Fassbender, L.L. and 12 authors, including von Winterfeldt, D. *Application of Value of Information to Tank Waste Characterization: A new paradigm for defining tank waste characterization requirements*. Technical Report PNNL-11395. Richland: Battelle PNNL.

1995

- von Winterfeldt, D. (1995). An assessment of major nuclear technologies using decision and risk analysis. In R. Hess (ed.) *Transactions of the 1995 Meeting of the American Nuclear Society, San Francisco, CA, October 29-November 2, 1995*. LaGrange Park, IL: American Nuclear Society.

1994

- Cho, Y., Luce, R.D., & von Winterfeldt, D. (1994). Tests of assumptions about the joint receipt of gambles in rank- and sign-dependent utility theory. *Journal of Experimental Psychology: Human Perception and Performance*, 20, No. 5, pp. 931-943.
- Chung, N.K., von Winterfeldt, D., & Luce, R.D. (1994). An experimental test of event commutativity in decision making under uncertainty. *Psychological Science*, 5, No. 6, pp. 394-400.
- Luce, R.D. & von Winterfeldt, D. (1994). What common ground exists for descriptive, prescriptive, and normative utility theories? *Management Science*, 40, pp. 263-279.
- Keeney, R.L. & von Winterfeldt, D. (1994). Managing nuclear waste from power plants. *Risk Analysis*, 14, pp. 107-130.

von Winterfeldt, D. (1994). *Preventing human intrusion into a high-level nuclear waste repository*. Report to the National Research Council, Committee on the Technical Bases for Yucca Mountain Standards. Institute of Safety and Systems Management, Los Angeles: University of Southern California.

Armacost, L.L., von Winterfeldt, D., Creighton, J., & Robershotte, M. (1994). *Public values related to decisions in the Tank Waste Remediation Program*. Technical Report No. PNNL-10107. Richland, WA: Battelle Pacific Northwest Laboratory.

1993

Keeney, R.L. & von Winterfeldt, D. (1993). An analysis of strategies to manage nuclear waste from power plants. Technical report DA-93-1, ISSM, University of Southern California.

von Winterfeldt, D., John, R.S., Gregory, R., & Fassbender, L. (1993). Assessing technology needs for nuclear waste clean up. Technical Report, Battelle PNL, Richland, WA.

1992

Otway, H.J. & von Winterfeldt, D. (1992). Expert judgment in risk analysis and management: Process, context, and pitfalls. *Risk Analysis*, 12, pp. 83-93.

Gregory, R., Keeney, R.L., & von Winterfeldt, D. (1992). Adapting the environmental impact statement process to inform decision makers. *Journal of Policy Analysis and Management*, 18, pp. 231-245.

von Winterfeldt, D. (1992). Expert knowledge and public values in risk management: The role of decision analysis. In S. Krimsky and D. Golding. (eds.) *Social theories of risk*. Westport, CN: Praeger, pp. 321-342.

Otway, H.J., Puckett, J.M., & von Winterfeldt, D. (1992). The prioritization of environment, safety, and health activities. Technical Report, Los Alamos National Laboratory, Los Alamos, NM.

1991

Borcherding, K., Eppel, T., & von Winterfeldt, D. (1991). Comparison of weighting judgments in multiattribute utility measurement. *Management Science*, 37, pp. 1603-1619.

Keeney, R.L. & von Winterfeldt, D. (1991). Eliciting probabilities from experts in complex technical problems. *IEEE Transactions on Engineering Management*, 38, pp. 191-201.

Keeney, R.L. & von Winterfeldt, D. (1991). A prescriptive risk framework for individual health and safety decisions. *Risk Analysis*, 11, pp. 523-533.

Hora, S.C., von Winterfeldt, D., Trauth, K., & Anderson, D.R. (1991). Expert judgment on inadvertent human intrusion into the waste isolation pilot plant. (Sandia Report No. SAND90-3063), Sandia National Laboratories, Albuquerque, NM.

1990

Keeney, R.L., von Winterfeldt, D., & Eppel, T. (1990). Eliciting public values for complex policy decisions. *Management Science*, 36, pp. 1011-1030.

Bonano, E.J., Hora, S.C., Keeney, R.L., & von Winterfeldt, D. (1990). Elicitation and use of expert judgment in performance assessment for high-level radioactive waste repositories. NUREG/CR-5411, SAND89-1821, Sandia National Laboratories.

1989

Keeney, R.L. & von Winterfeldt, D. (1989). On the use of expert judgment on complex technical problems. *IEEE Transactions on Engineering Management*, 36, pp. 83-86.

von Winterfeldt, D. (1989). A re-examination of the normative-descriptive distinction in decision analysis. A comment. *Annals of Operations Research*, 19, pp. 499-502.

von Winterfeldt, D. (1989). Whose opinion are we eliciting: the expert's or the analyst's? A comment. *Reliability Engineering and Systems Safety*, 5, pp. 8-12.

1988

von Winterfeldt, D. (1988). Expert systems and behavioral decision research. *Decision Support Systems*, 4, pp. 461-471.

von Winterfeldt, D. (1988). User-model interaction in decision support systems for risk management. *Annals of Operations Research*, 16, pp. 185-198.

Borcherding, K. & von Winterfeldt, D. (1988). The effect of varying value trees on multiattribute evaluations. *Acta Psychologica*, 68, pp. 153-170.

- Weber, M., Eisenfuehr, F., & von Winterfeldt, D. (1988). The effects of splitting attributes on weights in multiattribute utility measurement. *Management Science*, 34, pp. 431-445.
- von Winterfeldt, D., Eppel, T., & Ford, C. (1988). An experimental investigation of plural analysis: Estimating the market share of compact disc players in 1990. *Behavioral Science*, 33, pp. 187-195.
- Keeney, R.L. & von Winterfeldt, D. (1988). Probabilities are useful to quantify expert opinions in complex technical problems. *Reliability Engineering and Systems Safety*, 23, pp. 293-298.
- Edwards, W., von Winterfeldt, D., & Moody, D. (1988). Simplicity in decision analysis: An example and a discussion. In D.E. Bell, H. Raiffa, and A. Tversky (Eds.) *Decision analysis: Descriptive, normative, and prescriptive aspects*. New York: Cambridge University Press, pp. 443-464.
- Keeney, R.L. & von Winterfeldt, D. (1988). The analysis and its role for selecting nuclear repository sites. In G.K. Rand (Ed.) *Operational Research '87*, Amsterdam: Elsevier Science Publishers, pp. 686-701. (National contribution to the 11th International Conference on Operational Research in Buenos Aires, 1987).
- Covello, V.T., von Winterfeldt, D., & Slovic, P. *Risk communication: A review of the literature*. Final Report to the National Science Foundation, Institute of Safety and Systems Management, University of Southern California.
- Covello, V.T., Slovic, P., & von Winterfeldt, D. (1988). Disaster and crisis communications: Findings and implications for research and policy. In H. Jungermann, R.E. Kasperson, & P.M. Wiedemann (Eds.) *Risk Communication*. Juelich, FRG: Kernforschungsanlage Juelich, pp. 131-154.

1987

- Edwards, W. & von Winterfeldt, D. (1987). Public values in risk debates. *Risk Analysis*, 7, pp. 141-158.
- Stillwell, W.G., von Winterfeldt, D., & John, R.S. (1987). Comparing hierarchical and non-hierarchical weighting methods for eliciting multiattribute value models. *Management Science*, 33, pp. 442-450.
- Keeney, R.L., Renn, O., & von Winterfeldt, D. (1987). Structuring West Germany's energy objectives. *Energy Policy*, August, pp. 352-362.

von Winterfeldt, D. (1987). Value tree analysis: An introduction and an application to offshore oil drilling. In P. Kleindorfer and H. Kunreuther (Eds.), *Insuring and managing hazardous risks: From Seveso to Bhopal and beyond*. New York: Springer, pp. 349-377.

Keeney, R.L. & von Winterfeldt, D. (1987). Operational procedures to evaluate decisions with multiple objectives. EPRI Research report No. RP-2141-10, Electric Power Research Institute, Palo Alto, CA.

1986

Keeney, R.L. & von Winterfeldt, D. (1986). Why indirect health risks of regulations should be examined. *Interfaces*, 16, pp. 13-27.

Keeney, R.L. & von Winterfeldt, D. (1986). Improving risk communication. *Risk Analysis*, 6, pp. 417-424.

Covello, V. T., von Winterfeldt, D., & Slovic, P. (1986). Risk communication: A review of the literature. *Risk Abstracts*, 4, pp. 171-182. (Appeared also as: Risk communication. (1988). In C.C. Travis (Ed.) *Carcinogen risk assessment*. New York: Plenum Press, pp. 193-207).

Edwards, W. & von Winterfeldt, D. (1986). Cognitive illusions and their implications for the law, 59, pp. 225-276. (Appeared also as: On cognitive illusions and their implications. (1986). In H.R. Arkes and K.R. Hammond (Eds.), *Judgment and decision*.)

von Winterfeldt, D. & John, R.S. (1986). *Value tree analysis of alternative ordinances for "earthquakeproofing" masonry buildings in Los Angeles*. Working paper, Center for Public Administration and Policy Science, University of Wisconsin-Green Bay.

1985

von Winterfeldt, D. Decision making under uncertainty. (1985). In W. Findeisen (Ed.) *Systems Analysis*. Warsaw, Poland: Polish Academy of Sciences. (In Polish).

Cohen, M.D., Huber, G., Keeney, R.L., Levis, A.H., Lopes, L.L., Sage, A.P., Sen, S., Whinston, A.B., Winkler, R.L., von Winterfeldt, D., & Zadeh, L. (1985). Research needs and the phenomena of decisionmaking and operations. *IEEE Transactions on Systems, Man, and Cybernetics*, SMC-15, pp. 764-775.

Edwards, W. & von Winterfeldt, D. (1985). Public disputes about risky technologies: Stakeholders and arenas. In V. Covello, G. Mumpower, and G. Menkes (Eds.), *Risk Evaluation and Management*. New York: Plenum Press, pp. 69-92. Also in

V. Covello, G. Mumpower, P. Stallen, and R. Uppuluri (Eds.). (1985). *Environmental Impact Assessment, Technology Assessment, and Risk Analysis*. Berlin: Springer, pp. 877-915.

1984

Barron, F.H., von Winterfeldt, D., & Fischer, G.W. (1984). Empirical and theoretical relationships between value and utility functions. *Acta Psychologica*, 56, pp. 233-244.

Marks, G. & von Winterfeldt, D. (1984). "Not in my back yard": Influence of motivational concerns on judgments about a risky technology. *Journal of Applied Psychology*, 69, pp. 408-415.

von Winterfeldt, D. & Edwards, W. (1984). Patterns of conflicts about risky technologies. *Risk Analysis*, 4, pp. 55-68.

von Winterfeldt, D. (1984). Editorial review of 'Science, risk and public policy', by W.D. Ruckelshaus. *Risk Abstracts*, 1, pp. 41-42.

John, R.S., Keeney, R.L., Petak, W., & von Winterfeldt, D. (1984). *Evaluation of risk assessment methodologies for prioritizing dam remedial dam safety projects*. Final Report submitted to the National Science Foundation. Institute of Safety and Systems Management, Los Angeles: University of Southern California.

von Winterfeldt, D., Griffin, G., & Edwards, W. (1984). *On the relevance of the utility-value distinction for decision analysis* (Technical Report No. 84-1). Social Science Research Institute, Los Angeles: University of Southern California.

Brown, R.V., Lindley, D.V., Ulvila, J.W., & von Winterfeldt, D. Plural analysis: Developing multiple approaches to quantitative research (Phase I). Technical Report No. 84-3, Falls Church, VA: Decision Science Consortium. (NTIS No. PB87-116331/A05)

1983

von Winterfeldt, D. Pitfalls of decision analysis. (1983). In P. Humphreys, O. Svenson, and A. Vari (Eds.), *Analysing and aiding decision processes*. Budapest and Amsterdam: Hungarian Academy of Sciences Press and North Holland, pp. 167-181.

John, R.S., von Winterfeldt, D., & Edwards, W. (1983). The quality and user acceptance of multiattribute utility analysis performed by computer and analyst. In P. Humphreys, O. Svenson, and A. Vari (Eds.), *Analysing and aiding decision processes*. Budapest and Amsterdam: Hungarian Academy of Sciences Press and North Holland, pp. 301-319.

Borcherding, K. & von Winterfeldt, D. (1983). Was Laien unter Risiko verstehen (Lay people's concepts of risk). In G. Luer (Ed.) *Bericht ueber den 33. Kongress der Deutschen Gesellschaft fuer Psychologie*. Goettingen, West Germany: Hogrefe, pp. 323-328.

1982

Ikeda, S. & von Winterfeldt, D. (1982). Standards against noise pollution: The case of Shinkansen trains in Japan. *Journal of Environmental Management*, 14, pp. 3 -16.

von Winterfeldt, D. (1982). Setting standards for offshore oil discharges: A regulatory decision analysis. *Operations Research*, 14, pp. 247-256.

von Winterfeldt, D. & Edwards, W. (1982). Costs and payoffs in perceptual research. *Psychological Bulletin*, 91, pp. 609-622.

Otway, H.J. & von Winterfeldt, D. (1982). Beyond acceptable risk: On the social acceptability of technologies. *Policy Sciences*, 14, pp. 247-256.

1981

von Winterfeldt, D., John, R.S., & Borcherding, K. (1981). Cognitive components of risk ratings. *Risk Analysis*, 1, pp. 277-287.

Fischer, D., von Winterfeldt, D., & Ikeda, S. (1981). The Shinkansen and environmental issues. In A. Straszak (Ed.), *The Shinkansen Program: Transportation, Railway, Environmental, Regional, and National Developmental Issues*. Laxenburg, Austria: International Institute for Applied Systems Analysis, pp. 208-319.

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