

WORK ADDRESSES

Associate Professor
Interdisciplinary and Global Studies
Division and the Environmental
Worcester Polytechnic Institute
Worcester, MA 01609
413-387-9320 (mobile)
STuler@wpi.edu

Research Fellow
Social and Environmental Research
Institute
PO Box 1487.
Northampton, MA 01061
SPTuler@seri-us.org

PERSONAL

BORN: June 25, 1962, Champaign, Illinois
CITIZENSHIP: U.S.A.

EDUCATION

1980 - 1984: The University of Chicago, Chicago, IL.
B.A., Mathematics, March 1984.

1985 - 1987: Massachusetts Institute of Technology, Cambridge, MA.
M.S., Technology and Policy, May 1987.
Thesis title: Human Behavior in Time-Pressured Distributed Decision Systems.

1990 - 1996: Clark University, Worcester, MA.
Ph.D., Environmental Science and Policy
Dissertation title: Meanings, Understandings, and Interpersonal Relationships in
Environmental Policy Discourse.

RESEARCH POSITIONS

Nov. 1995 – present. Research Fellow, Social and Environmental Research Institute,
Greenfield, MA.

Jan. 1996 – 2006. Research Fellow, Center for Technology, Environment, and
Development, George Perkins Marsh Institute, Clark University, Worcester, MA.

Sept. 2000 – Sept. 2002. Researcher, subcontract from Decision Research, Inc. with the
Social and Environmental Research Institute, Greenfield, MA.

Jan. 1997 - March 1998. Research Assistant, Cooperative Park Studies Unit, University of
Idaho, Moscow, ID.

Oct. 1991 - April. 1992. Research Assistant, Cooperative Park Studies Unit, University of
Idaho, Moscow, ID.

June 1987 - Jan. 1992. Research Assistant, Center for Technology, Environment, and
Development, Clark University, Worcester, MA.

RESEARCH GRANTS RECEIVED

- Senior Researcher. National Science Foundation. *Climate-induced Extremes on the Food, Energy, Water Nexus (C-FEWS) and the Role of Engineered and Natural Infrastructure*. With Charles Vorosmarty (PI), Amy Ando (co-PI), Atul Jain, (co-PI) Jerry Melillo(co-PI), Donald Wuebbles (co-PI). July 2019 – June 2023. Full proposal amount \$2,499,998 (Subcontract via Social and Environmental Research Institute for \$67,604)
- Co-PI. National Oceanic and Atmospheric Association, Urban Heat Island Mapping Campaign Matching Award. *Worcester Heat Island Mapping Citizen Science Campaign*. With Stephen McCauley. June 30 – September 30, 2019. (\$4,000)
- PI. MIT Sea Grant. *Supporting local comprehensive planning and climate change adaptation planning in Wellfleet, MA*. 2017-18 (\$10,000)
- Co-PI. Environmental Protection Agency, Office of Research and Development. *Community Decision Integration: Knowledge Corridor Case*. With Thomas Webler, PI. 2013-2014. (\$39,694)
- Co-PI. NOAA Coastal Oceans Climate Adaptation (COCA) Program. *Promoting climate change awareness and adaptive planning in Atlantic fisheries communities using dialogue-based participatory vulnerability analysis*. With Thomas Webler, PI. 2012-2014. (\$283,585).
- Researcher. National Sea Grant Program. *Using participatory scenario building to encourage climate-resilient zoning in the coastal Carolinas*. With Thomas Webler and Jessica Whitehead, Co-Principal Investigators. 2012-2014. (\$150,000).
- Co-PI. Northeast Center for Agriculture and Occupational Health. *A participatory approach to building a systems-based understanding of the vulnerability of commercial fishermen to workplace hazards*. With Thomas Webler (PI). Jan 2012 – March 2013. (\$15,179).
- PI. MIT Sea Grant. *Improving understandings of consequences, vulnerabilities, and adaptation strategies to climate change related hazards*. With Thomas Webler (co-PI, SERI). February, 2011 - January, 2014. (\$182,644).
- Researcher. USDA/AFRI. *Long-term health effects, risk perceptions, and implications for agricultural markets: modeling consumption patterns for aquacultured seafood*. With Cathy Roheim (PI, University of Rhode Island) Robert Johnston (PI, Clark University). 2010 - 2011.
- PI. NOAA Sectoral Applications Research Program (SARP). *Informing coastal management adaptation planning and decision making for climate change using an interactive risk-based vulnerability assessment tool*. With T. Webler, K. Dow, and J. Whitehead. 1 August, 2009 – 31 Dec., 2011. (\$213,886).
- Professional Development Fellowship, Science and Society Program, National Science Foundation. *Factors that enable longterm institutional management systems to anticipate, recognize, and respond to failures*. September 2009 – August 2012 at Worcester Polytechnic Institute. (\$86,299).
- Co-PI. Coastal Response Research Center (under NOAA Grant Number: NA04NOS4190063). *Social disruption from oil spills and spill response: Characterizing effects, vulnerabilities, and the adequacy of existing data to inform decision-making*. With T. Webler. July 2008 – June 2010. (\$249,339).

- Co-PI. Oil Spill Recovery Institute. *Cordova Study Site – Social disruption from oil spills and spill response*. With T. Webler. 1 July 2008 – 30 June 2010. (\$36,992).
- PI. Coastal Response Research Center (under NOAA Grant Number: NA04NOS4190063). *Successful collaborative planning for oil spill response readiness*. With T. Webler. 2007. (\$59,074).
- PI. Coastal Response Research Center ((under NOAA Grant Number: NA04NOS4190063, Project Number: 05-983). *Establishing Performance Metrics for Oil Spill Response, Recovery and Restoration*. With Tom Seager, Igor Linkov, and Tom Webler, February 2005 – 31 December 2007. (\$288,436).
- PI. National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce. *Demonstrating a risk-based approach to rapid vulnerability assessment in New England fishery communities*. With Tom Webler and Colin Polsky, Oct. 2007 – Dec. 2009. (\$131,902).
- PI. National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce. *Developing methods to identify and characterize vulnerable populations in northeast marine fish communities*. With Julian Agyeman, October 2004 – September, 2005. (\$55,260).
- PI. Environmental Protection Agency. *Three evaluative tools to empower local communities in the cleanup of contaminated sites: A comparative analysis*. With Tom Webler, Caron Chess, and Susan Santos, October 2003 – March 2008. (\$461,390).
- PI. National Science Foundation (Societal Dimensions of Engineering, Science, and Technology). *Toward better theory of public participation*. With Tom Webler, September 2001 - December 2002. (\$148,000).
- Researcher. U.S. Department of Energy (subcontracted through Decision Research, Eugene, OR). *Community response to risk communication about low dose radiation exposures*. With Tom Webler (PIs Jim Flynn and Paul Slovic, Decision Research, Eugene, OR), August 2000 - September 2002. (\$76,000).
- Co-PI. National Park Service. *Comprehensive Study of Visitor Safety in the National Park System* (under subcontract # GNK756A with the Cooperative Parks Study Unit, University of Idaho, Moscow, ID). With Dominic Golding, May 2000 – April 2002. (\$249,953).
- Researcher. Environmental Protection Agency. *Social and Ecological Transferability of Integrated Ecosystem Assessment Models*. With T. Webler, L. Degan (MBL), and J. Kremer (UConn), co-PIs. 1997 – 2001. \$850,466.
- PI. National Science Foundation and the Environmental Protection Agency Partnership for Environmental Research. *Factors Influencing the participation of local governmental officials in environmental policy making. Three case studies of the National Estuary Program*. (SBR 96-13625). With Tom Webler, Paul Stern, and Ingrid Shockey, Oct. 1996 – Sept. 2000. (\$119,000).
- Co-PI. National Science Foundation. *Evaluating Public Participation Processes by Combining Perspectives of Planners, Participants, and Normative Theory*. With T. Webler (PI). 1995-1997. (\$76,000).

TEACHING EXPERIENCE

WPI: Associate Professor, Interdisciplinary and Global Studies Division, 2019 - present

WPI: Associate Teaching Professor, Interdisciplinary and Global Studies Division, 2014-2019

WPI: Adjunct Associate Professor, Interdisciplinary and Global Studies Division, 2009-2014

WPI: Adjunct Assistant Professor, Interdisciplinary and Global Studies Division, 2002-2009

CONSULTING EXPERIENCE

Sept. 2017 – March 2018: Assessment of 17 VCAPS processes for climate change adaptation planning and hazard management for Carolinas Integrated Sciences and Assessments (CISA), University of South Carolina.

Aug. 2015 – 2016. Provide advice, provide feedback, and write review papers for the Office of Nuclear Energy, Department of Energy on design of a consent-based siting process for commercial spent nuclear fuel and defense high level waste.

Oct. – Dec. 2012. Organize and facilitate workshop with local officials about climate change impacts and adaptation strategies. Project sponsored by the City of Dauphin Island, Alabama and Dauphin Island Sea Lab/Mobile Bay National Estuary Program.

June 2012. Consultant. Organize and facilitate workshop with local officials about climate change impacts and adaptation strategies. City of Orange Beach, Alabama and Alabama – Mississippi Sea Grant.

Jan. 2011 – Mar. 2012. Consultant, Alliance for Nuclear Accountability, Santa Fe, NM. Research and preparation of outreach materials on future use of federal facilities, with a focus on the linkages between clean-up decision making and future use planning.

Sept. 2010 – June 2011. Consultant, President Obama's Blue Ribbon Commission on America's Nuclear Future. Co-authored two commissioned technical reports on *Social distrust: implications and recommendation for spent nuclear fuel and high level radioactive waste management* (with Roger Kasperson) and *Options for Developing Public and Stakeholder Engagement for the Storage and Management of Spent Nuclear Fuel (SNF) and High Level Waste (HLW) in the United States* (with Thomas Webler and Eugene Rosa).

April 2001 – Feb. 2005. Consultant, Committee on Public Participation in Environmental Assessment and Decision-Making, National Research Council, Washington, DC. Support the study director and committee on work related to public participation in environmental decision-making, including two workshops and a literature review.

Jan. 1994 - May 1996. Small group facilitator, Northern Forest Dialogue Project and Maine Forest Biodiversity Project. Lead small group discussions on various topics during meetings of the Northern Forest Dialogue Project (Feb. 1994) and the Maine Forest Biodiversity Project (May and Nov. 1995, May 1996). In addition, conducted an evaluation for the planners and Steering Committee of the first Northern Forest Dialogue Project meeting.

- May 1994 - Sept. 1994. Consultant, Center for Technology Assessment in Baden-Wurttemberg (Germany). Participated in study of expert perceptions on sustainability and evaluation of workshop as part of the ongoing project "Qualitative Growth as a Prerequisite for Sustainable Development in Baden-Wurttemberg."
- June 1993 - Jan. 1994: Staff, Vermont Leadership Center, Island Pond, Vermont. Provided support for office staff, coordination of grassroots Northern Forest Citizen Network activities (including organization of workshops, implementation of survey project, and publication of newsletter) and support for Northern Forest Dialogue Project retreats (including pre-retreat and post-retreat interviews with participants and post-retreat evaluation).
- Feb. 1992 - March 1992. Consultant, Human Factors Unit, Four Elements, Ltd., London, UK. Reviewed system design requirements for nuclear power control room operator training programs in Great Britain. Emphasis was on developing a model of operator decision making in unfamiliar and emergency situations and the special training needs for team performance. A report was prepared for the UK Health and Safety Executive.
- Aug. 1990 - Oct. 1990. Consultant, Human Factors Unit, Four Elements, Ltd., London, UK. Reviewed research needs in human factors in high risk industries. Review of state-of-the-art research programs in the US with emphasis on human factors issues in commercial nuclear power plants.
- Jan. 1990 - May 1990. Research Assistant, Cooperative Park Studies Unit, University of Idaho, Moscow, ID. Reviewed risk to personnel in the Olympic National Park Mountain Goat Removal Project. Emphasis was placed on individual and team factors that contribute to capture personnel risk. Recommendations were developed to decrease risks and presented to capture team personnel at a workshop.
- Dec. 1988 - April 1989. Consultant, Human Factors Unit, Technica, Ltd., London, UK. Reviewed and evaluated public responses to warning systems during nuclear power plant emergencies. Emphasis was placed on the effectiveness of warning sirens and sheltering as an alternative to evacuation.
- Sept. 1988 - April 1989. Consultant, Technica, Inc., Columbus, OH. Developed a risk communication guidebook for clients in the petrochemical industry. Emphasis was placed on plant manager interactions with the public and news media.

FELLOWSHIPS AND AWARDS

- Professional Development Fellowship, Science and Society Program, National Science Foundation. *Factors that enable longterm institutional management systems to anticipate, recognize, and respond to failures.* September 2009 – August 2012 at Worcester Polytechnic Institute. Effort: 9 months
- Fulbright Scholar Fellowship, Faculty of Public Health, Thammasat University, Rangsit Campus, Pathumthani. Bangkok, Thailand, Dec 2008 – April 2009. Studied the public health risk communication activities about air emissions from petrochemical facilities located at the Maptaphut Industrial Estate in Rayong Province. Gave a series of presentations about environmental health risk communication to government agencies and industry:

- Tuler, S., Langkulsen, U., Chess, C., and Vichit-Vadakan, N. 2012. Health and environmental risk communication in Thailand: An analysis of agency staff's perspectives on risk communication with external stakeholders, *ASEAS – Austrian Journal of South-East Asian Studies* 5(1):52-73
- Tuler, S., Chess, C., Langkulsen, U., and Vichit-Vadakan, N. 2011. Risk communication by the Pollution Control Department: An analysis of officer attitudes about risk communication with external stakeholders. Unpublished technical report prepared for the Thailand Pollution Control Department as part of research conducted under a Fulbright Fellowship.
- Tuler, S. and Chess, C. 2009. Planning effective communication. Invited presentation to the Pollution Control Department, Bangkok, Thailand, 19 March.
- Tuler, S. 2009. Planning effective risk communication. Invited presentation to a Workshop sponsored by the Ministry of Public Health, Department of Disease Control and Prevention in Rayong Province, Rayong, Thailand, 25 March.
- Tuler, S. 2009. Planning effective communication about public health risks: The need for participation. Invited presentation to the Faculty of Public Health, Thammasat University, Pahtumthani, Thailand, 30 March.
- Tuler, S. 2009. Effective risk communication: Challenges and a framework for planning. Invited presentation to the Petroleum Institute of Thailand, Bangkok, Thailand, 3 April.

PUBLICATIONS

Submitted, under review, under revision

Dow, K. and Tuler, S. 2020 Submitted. Climate adaptation in coastal cities: Managing social amplification and attenuation of risk response. For *Risk Analysis*, special issue on progress in research on the social amplification of risk framework.

2020

Tuler, S. Dow, K., and Webler, T. 2020. Assessment of adaptation, policy, and capacity building outcomes from 14 processes, *Environmental Science and Policy* 114:275-282.

Webler, T. and Tuler, S. 2020. Unpacking the idea of democratic community consent, *Journal of Risk Research*.

Tuler, S. and Webler, T. 2020. Citizen Engagement (chapter 13). In D. Konisky (ed.), *Handbook of U.S. Environmental Policy*. Edward Elger.

2019

Webler, T. and Tuler, S. 2019. Four decades of public participation in risk decision making, *Risk Analysis*.

Padir, A., Shockey, I., and Tuler, S. 2019. Storying climate change in Himachal Pradesh, *Practicing Anthropology*.

2017

- Tuler, S., Dow, K., Webler, T., Whitehead, J. 2017. Learning through participatory modeling: Reflections on what it means and how it is measured. In: S. Grey and M. Paolisso, R. Jordan, S. Grey (eds.), *Including Stakeholders in Environmental Modeling*. Switzerland: Springer International Publishing.
- Tuler, S., Dow, K., and Webler, T. 2017. How can we learn more from learning about risk controversies. In R. Kasperson (ed), *Risk conundrums: Solving unsolvable problems*. NY: Earthscan. Pp. 62-74.
- Tuler, S., Kasperson, R. E., and Golding, D., and Downs, T. 2017. How do we move forward when there is no trust? In R. Kasperson (ed), *Risk conundrums: Solving unsolvable problems*. NY: Earthscan. Pp. 33-46.
- Moser, S., Dow, K., and Tuler, S. 2017. Out of harm's way: Challenges in reducing current and future coastal risk exposure. In R. Kasperson (ed), *Risk conundrums: Solving unsolvable problems*. NY: Earthscan. Pp. 189-206.

2016

- Tuler, S., Webler, T., and Rhoades, J. 2016. Stormwater Management in a Time of Climate Change: Insights from a Series of Scenario-Building Dialogues, *Weather, Climate, and Society* 8:163–175.

2015

- Webler, T., S. Tuler, J. Whitehead, E. Stancioff, E. Fly, B. Seitzman, J. Davis. 2015. Using participatory modelling to help seafood producers on the United States East Coast identify ways to adapt to a changing climate, *Journal of Shellfish Research* 34: 689.
- Webler, T., Tuler, S., Goble, R., and Schweizer, P. 2015. Characterizing Landscapes of Regional Risk Governance, *International Journal of Performability Engineering* 11(6):521-534.

2014

- Kettle, N. P., Dow, K., Tuler, S., Webler, T., Whitehead, J., & Miller, K. M. 2014. Integrating scientific and local knowledge to inform risk-based management approaches for climate adaptation, *Climate Risk Management* 4-5:17-31.
- Webler, T., Tuler, S., Dow, K., Whitehead, J., & Kettle, N. (2014). Design and evaluation of a local analytic-deliberative process for climate adaptation planning, *Local Environment* 18:1-23.
- Tuler, S., Ram, B., and Kasperson, R. 2014. Wind Energy Facility Siting: Learning from Experience and Guides for Moving Forward, *Wind Engineering* 38(2):203-216.

2013

- Tuler, S. and Kasperson, R. 2013. Social distrust and its implications for risk communication: An example from high level radioactive waste management. In: Joe Arvai and Louis Rivers (eds.), *Recent advances in risk communication theory and practice*. Washington: Earthscan.

2012

- Tuler, S. 2012. Institutional preferences for justice, avoiding harm, and expertise in public health policy making about the health consequences of iodine-131 nuclear weapons testing fallout. In D. Quigley, A. Lowman, S. Wing (eds.), *Tortured science: Health studies, ethics, and nuclear weapons in the United States*. Amitysville, NY: Baywood Publishing Company.
- Tuler, S., Webler, T., and Polsky, C. 2012. A rapid impact and vulnerability assessment approach for commercial fisheries management, *Ocean and Coastal Management* 71:131-140.
- Tuler, S., Langkulsen, U., Chess, C., and Vichit-Vadakan, N. 2012. Health and environmental risk communication in Thailand: An analysis of agency staff's perspectives on risk communication with external stakeholders, *ASEAS – Austrian Journal of South-East Asian Studies* 5(1):52-73.
- Danielson, S., Tuler, S., Webler, T., Santos, S., and Chess, C. 2012. Three Tools for Evaluating Participation: Focus Groups, Q Method, and Surveys, *Environmental Practice* 14:101–109.
- Lord, F., Tuler, S., Webler, T., and Dow, K. 2012. Human dimensions of the Bouchard-120 oil spill in Buzzards Bay, Massachusetts, *Journal of Environmental Assessment Policy and Management* 14(2)

2011

- Tuler, S. and Kasperson, R. 2011. *Social distrust: Implications and recommendation for spent nuclear fuel and high level radioactive waste management*. A Technical report prepared for the Blue Ribbon Commission on America's Nuclear Future. Washington, DC: Blue Ribbon Commission on America's Nuclear Future. Available online at: www.brc.gov/commissioned_papers.html
- Webler, T., Tuler, S. and Rosa, E. 2011. *Options for Developing Public and Stakeholder Engagement for the Storage and Management of Spent Nuclear Fuel (SNF) and High Level Waste (HLW) in the United States*. A Technical report prepared for the Blue Ribbon Commission on America's Nuclear Future. Washington, DC: Blue Ribbon Commission on America's Nuclear Future. Available online at: www.brc.gov/commissioned_papers.html
- Webler, T., Tuler, S., and Dietz, T. 2011. Scientists' views on the roles of models in watershed planning, *Environmental Policy & Governance* 21(6):472-486.

2010

- Rosa, Eugene A., Tuler, S. P., Fischhoff, B., Webler, T., Friedman, S. M., Sclove, R. E., Shrader-Frechette, K., English, M. R., Kasperson, R. E., Goble, R. L., Leschine, T. M., Freudenburg, W., Chess, C., Perrow, C., Erikson, K., and Short, J. F. 2010. Nuclear waste: Knowledge waste?, *Science* 329(5993):762–763.
- Tuler, S. and Webler T. 2010. How preferences for public participation are linked to perceptions of the context, preferences for outcomes, and individual characteristics, *Environmental Management* 46(2):254-267.
- Webler, T. and Tuler, S. 2010. Engineering is not enough: Researching the human dimensions of the new energy technologies, *Energy Policy* 38: 2690–2691.
- Danielson, S. T. Webler, & S. Tuler. 2010. Using Q Method for the Formative Evaluation of Public Participation Processes, *Society and Natural Resources* 23(1):92-96.

2009

Tuler, S. and Webler, T. 2009. Comparing stakeholders' objectives for oil spill contingency planning and response: A Q study of four regions, *Journal of Contingencies and Crisis Management* 17(2): 95-107.

2008

Tuler, S., Agyeman, J., Pinto da Silva, P., LoRusso, K., and Kay, R. 2008. Assessing vulnerabilities: Integrating information about driving forces that affect risks and resilience in fishing communities, *Human Ecology Review* 15(2):171-184.

Tuler, S. and Webler, T. 2008. Q Methodology. In Linda Kalof, Amy Dan and Thomas Dietz, *Essentials of Social Research*, pages 137-138. Berkshire, UK: Open University Press/McGraw Hill Publishers.

Webler, T. and Tuler, S. 2008. Organizing a deliberative planning process: What does the science say?. In S. Odugbemi and T. Jacobson (eds.), *Governance reform under real-world conditions: Citizens, stakeholders, and voice*. Pp. 125-160. Washington, DC: World Bank.

Danielson, S., Santos, S., Webler, T., and Tuler, S. 2008. Building and Breaking a Bridge of Trust in a Superfund Site Remediation, *International Journal of Global Environmental Issues* 8(1-2):45—60.

2007

Tuler, S., Seager, T., Kay, R., and Linkov, I. 2007. The Bouchard-120 and Chalk Point oil spill responses: Objectives and performance metrics. In I. Linkov, G. Kiker, and R. Wenning (eds.), *Environmental security in harbors and coastal areas*, pp. 209-228. Netherlands: Springer.

Seager, T., Satterstrom, F. K., Linkov, I., Tuler, S., and Kay, R. 2007. Typological Review of Environmental Performance Metrics (with Illustrative Examples for Oil Spill Response), *Integrated Environmental Assessment and Management* 3:310-321.

2006

Tuler, S. and Webler, T. 2006. Competing perspectives on a process for making remediation and stewardship decisions at the Rocky Flats Environmental Technology Site, *Research in Social Problems and Public Policy* 13: 49-77.

Webler, T. and Tuler, S. 2006. Four perspectives on public participation process in environmental assessment and decision making: Combined results from ten case studies, *Policy Studies Journal* 34(4):699-722.

Russ, A., Burns, C., Tuler, S., and Taylor, O. 2006. *Health risks of ionizing radiation: An overview of epidemiological studies*. Worcester, MA: Community-Based Hazard Management Program, The George Perkins Marsh Institute, Clark University.

2005

Tuler, S., Webler, T., and Finson, R. 2005. Competing perspectives on public involvement: Planning for risk characterization and risk communication about radiological contamination from a national laboratory, *Health, Risk, and Society* 7(3):247-266.

2004

Webler T, Tuler S, Tanguay J. 2004. Competing perspectives on public participation in National Park Service Planning: The Boston Harbor Islands National Park Area, *Journal of Park and Recreation Administration* 22(3).

Dietz, T., Tanguay, J., Tuler, S., and Webler, T. 2004. Making computer models useful: An exploration of expectations by experts and local officials, *Journal of Coastal Management* 32(3):307-318.

2003

Webler, T., Tuler, S., Shockey, I., Stern, P. C., and Beattie, R. 2003. Participation by local governmental officials in watershed management planning, *Society and Natural Resources* 16(2):105-121.

2002

Tuler, S., Webler, T., Shockey, I., Stern, P. C., 2002. Factors influencing the participation of local governmental officials in the National Estuary Program, *Coastal Management* 30(1):101-120.

Machlis, G., Kaplan, A., Tuler, S., Bagby, K., and McKendrey, J. 2002. *Burning questions: A social science research plan for federal wildland fire management*. Report to the National Wildfire Coordinating Group. Missoula, MT: National Wildfire Coordinating Group.

Webler, T. and Tuler, S. 2002. Unlocking the Puzzle of Public Participation, *Bulletin of Science, Technology, & Society* 22(3):179-189.

2001

Webler, T., Tuler, S., and Krueger, R. 2001. What is a good public participation process? Five perspectives from the public, *Environmental Management* 27(3):435-450.

Webler, T. and Tuler, S. 2001. Public Participation in Watershed Management Planning: Views on Process from People in the Field, *Human Ecology Review* 8(2):29-39.

2000

Tuler, S. and Webler, T. 2000. Public Participation: Relevance and application in the National Park Service, *Park Science* 20(1): 24-26.

Tuler, S. 2000. Forms of talk in policy dialogue: Distinguishing between adversarial and collaborative discourse, *Journal of Risk Research* 3(1):1-17.

Webler, T. and Tuler, S. 2000. Fairness and Competence in Citizen Participation: Reflections from a Case Study, *Administration and Society* 32(5):566-595.

1999

Tuler, S. and Webler, T. 1999. Designing an analytic deliberative process for environmental health policy making in the US nuclear weapons complex, *RISK: Health, Safety, and Environment* 10(1):65-87.

Webler, T. and Tuler, S. 1999. Integrating Technical Analysis with Deliberation in Regional Watershed Management Planning: Applying the National Research Council Approach, *Policy Studies Journal* 27(3):530-543.

Tuler, S. 1999. Employee Safety in the National Park Service, *NPS Social Science Research Review* 1(3):1-15.

1998

Tuler, S. 1998. Learning through participation. *Human Ecology Review* 5(1):58-60.

Tuler, S. and Webler, T. 1998. Voices from the forest: What participants expect of a public participation process, *Society and Natural Resources* 12:437-453.

1997

Webler, T. and Tuler, S. 1997. Valuing diversity, *Whole Terrain* 6:59-65.

1995

Tuler, S. and Webler, T. 1995. Process Evaluation for Discursive Decision Making in Environmental and Risk Policy, *Human Ecology Review* 2(1):62-71.

Tuler, S. 1995. Organizational decision-making theory and technological emergencies. In: D. Golding, J. X. Kasperson, and R. E. Kasperson (eds.), *Preparing for nuclear power plant accidents*. Boulder, CO: Westview Press. Pgs. 253-288.

Kasperson, R. E., Golding, D., and Tuler, S. 1995. Designing effective systems for responding to nuclear plant emergencies. In: D. Golding, J. X. Kasperson, and R. E. Kasperson (eds.), *Preparing for nuclear power plant accidents*. Boulder, CO: Westview Press. Pgs. 289-310.

1992

Tuler, S., Machlis, G., and Kasperson, R. E. 1992. A case study of mountain goat removal in Olympic National Park: The role of organizational culture in individual risk decisions and behavior, *Risk: Issues in Health and Safety* 3(4):317-340.

Kasperson, R. E., Golding, D., and Tuler, S. 1992. Siting hazardous facilities and communicating risks under conditions of high social distrust, *Journal of Social Issues* 48(4):161-187.

1989

Tuler, S., Kasperson, R. E., and Ratick, S. 1989. Human reliability and risk management in the transportation of spent nuclear fuel. In: G. B. Guy (ed.), *Reliability on the Move: Safety and Reliability in Transportation*, pp. 169-194. London: Elsevier Applied Science.

1988

Tuler, S. 1988. Individual, group, and organizational decision making in technological emergencies: A review of research, *Industrial Crisis Quarterly* 2:109-138.

Edited Special Issues

2006

Webler, T. and Tuler, S. (eds.). 2006. Special Edition on public participation in environmental decision-making. *Policy Studies Journal* 34(4): 599-775.

Tuler, S. and Webler, T. (eds.) 2006. Special edition. Recent research on public participation: A focus on learning. *Human Ecology Review* 13(2): 148-202.

1998

Webler, T. and Tuler, S. 1998. Human Ecology Forum Editors Introduction. How to do environmental decision-making: Varying perspectives on the US National Research Council's *Understanding Risk* Report. *Human Ecology Review* 5(1):35-36.

Reviews, Newsletters, and Opinions

2012

Webler, T., Tuler, S., and Rosa, E. 2012. Improving public and stakeholder engagement in nuclear waste management, *Bulletin of the Atomic Scientists*, published online 7 June, 2012. Available at: <https://thebulletin.org/2012/06/improving-public-and-stakeholder-engagement-in-nuclear-waste-management/>

Tuler, S., Webler, T., and Rosa, E. 2012. America's nuclear future: Does the public have a fair say in it?, *Bulletin of the Atomic Scientists*, published online 31 January, 2012. Available at: <https://thebulletin.org/2012/01/americas-nuclear-future-does-the-public-have-a-fair-say-in-it/>

2010

Webler, T. and S. Tuler 2010. Exclusive: Human dimensions of oil spills, *Climate Progress*. <http://climateprogress.org/2010/05/05/human-dimensions-bp-oil-spill/>

2008

Tuler, S., Chess, C., Santos, S., Danielson, S., and Webler, T. 2008. Selecting the right tool for evaluations: Guidance for community involvement practitioners, *EPA's Collaboration Network News*, Winter 2008. Available on web at: www.epa.gov/pubinvol/Complete%20Newsletters/NetworkNewsWinter2008.pdf

2000

Webler, T., Shockey, I., Tuler, S., and Stern, P. 2000. Five perspectives on participation in watershed management planning by local governmental officials, *Coastlines* 10.5 (October): 5-7. Available at: <http://www.epa.gov/nep/coastlines/oct00/five.html>

Webler, T., Shockey, I., Tuler, S., and Stern, P. 2000. Why do (or don't) local government officials participate in watershed planning efforts?, *Coastlines* 10.2 (April): 10-11. Available at: <http://www.epa.gov/nep/coastlines/apr00/whydo.html>

1998

Tuler, S. 1998. Review of *The Politics of the Earth: Environmental Discourses*, by John S. Dryzek, *Human Ecology Review* 5(1).

1995

Webler, T. and Tuler, S. 1995. Discourse and Evaluation in Risk Communication Processes, *RISKOM: Newsletter of the Risk Communication Network* 1(2):5-6. (University of East Anglia, UK).

1991

Tuler, S., Machlis, G., Kasperson, R. E., and Janda, C. 1991. Olympic NP mountain goat removal project subject of risk assessment report, *Park Science*, 11(1): 14-15.

1987

Tuler, S. 1987. Society for risk analysis explores major issues, *Environmental Impact Assessment Review* 7(1): 92-94.

Conference Proceedings

- Tuler, S. 1995. "Development of mutual understanding among stakeholders in environmental policy disputes." In: *Human Ecology: Progress through integrative perspectives*. Proceedings of the 7th Society for Human Ecology Meeting, East Lansing, MI, April 1994, pp. 280-284.
- Tuler, S., Kasperson, R. E., and Ratick, S. 1991. Human error in the transportation of spent nuclear fuel. In: C. Zervos (ed.), *Prospects and Opportunities*, pp. 367-378. New York: Plenum Press.
- Tuler, S. and Hattis, D. 1990. Carcinogenesis risk assessment of two-carbon alkylating agents using dynamic simulation of absorption and metabolism. In: L. A. Cox and P. F. Ricci (eds.), *New Risks: Issues and Management*. NY: Plenum Press.

Invited Lectures, Workshops, And Presentations

- Tuler, S. 2018. Conceptual Framework for Risk-Informed Decision-Making, Experts' Meeting Convened by the National Academies of Sciences, Engineering, and Medicine, May 16-17, 2018.
- Tuler, S. 2017. *The climate is changing, how can our community respond?* Community Workshop and Presentation, Wellfleet, MA, 12th May, 2017.
- Tuler, S. *Workshop/training for Great Lakes Sea Grant on the Vulnerability, Consequences, and Adaptation Planning Scenarios (VCAPS) Process*, Great Lakes Sea Grant Network Conference, Cleveland, OH, 7-8 June, 2017.
- Shockey, I. and Tuler, S. 2016. *Promoting Perspective Taking in Cross-Cultural Teams*. Food for Thought teaching and learning seminar, Worcester Polytechnic Institute, Worcester, MA, Nov. 2016.
- Tuler, S. 2016. *A community-based approach to planning for the effects of climate change on shellfishing in Wellfleet Harbor*. Howard Hughes Medical Institute (HHMI) Seminar Series on Climate Science, Boston University, 8 Nov., 2016.
- Tuler, S. 2016. Invited participant to the 15th Annual Ronald C. Baird Sea Grant Science Symposium *The Social Dimensions of American Offshore Wind Energy: Towards a Research Agenda*, Narragansett, RI, October 24, 2016
- Tuler, S. and Stancioff, E. 2016. *Promoting climate awareness and adaptive planning in three Atlantic fisheries communities using the VCAPS process and system dynamics model*. Increasing resilience of fishing communities in a changing climate workshop, National Marine Fisheries Service, Silver Spring, MD, 3-5 May, 2016.
- Tuler, S. 2015. *A community-based approach to planning for the effects of climate change on shellfishing in Wellfleet Harbor*. 3RD Annual Cape Coastal Conference, Hyannis, MA, December 10, 2015.
- Tuler, S. 2015. *A community-based approach to planning for the effects of climate change on shellfishing in Wellfleet Harbor*, State of Wellfleet Harbor Conference, Wellfleet, MA, November 7, 2015.
- Tuler, S. and Whitehead, J. 2013 (December). *Helping Coastal Communities Strategize Adaptations to Climate Change: How to Implement a Structured Dialogue Using an Interactive Diagramming Program*, Invited Workshop leader, supported by North Carolina Sea Grant. NOAA Beaufort Lab, Pivers Island, Beaufort, NC, December 10-11, 2013.

- Tuler, S. and Webler, T. 2013 (November). *Integrating climate change adaptation planning and hazard mitigation planning in coastal Massachusetts*, Invited workshop, Northeast Regional Sea Grant Biennial Meeting, New Bedford, MA, 22 November, 2013.
- Webler, T. and Tuler, S. 2013 (November). *Project Overview: A Working Group on Climate Change and Shellfish in Wellfleet Harbor: Anticipating impacts, reducing threats, and increasing resilience*. Invited Poster Presentation, Wellfleet State of the Harbor, Wellfleet, MA.
- Tuler, S. 2013 (November). *Supporting Local climate change adaptation planning: Integrating Local and Scientific Expertise*, Invited Presentation, Department of Environment and Natural Resources, Mahidol University, Bangkok, Thailand.
- Tuler, S., Webler, T., and Rhoades, J. (October) 2013. *Mapping the risk decision landscape: Climate stressors on public health and shellfish in Wellfleet (Cape Cod), Massachusetts*. Invited presentation at the Research Workshop on Marine Health & Risk Communication, Santa Barbara, California, October 12-14, 2013. Workshop convened under the auspices of the NSF-funded Research Coordination Network on Evaluating the Impacts of a Changing Ocean on Management and Ecology of Infectious Marine Disease with the support of funding from Cornell University's Institute for Social Sciences.
- Tuler, S. 2013. *Integrating climate change adaptation planning and hazard mitigation planning in coastal Massachusetts*, Invited presentation to grantees workshop, Adapting to Change in Marine Ecosystems - A Stakeholder Science Forum, MIT Sea Grant. (see http://seagrant.mit.edu/press_releases.php?ID=416).
- Tuler, S., Webler, T., and Whitehead, J. 2012. *Climate-Ready States and Cites Initiative (CRSCI) webinar* on public health, climate change, and the VCAPS tool, October 18th, 2012.
- Tuler, S. and Whitehead, J. 2012. Invited presentation at the session on Considering Climate in Decision Support for Resilient Coastal Communities at the *Southeast and Caribbean Climate Outreach Community of Practice meeting*, June 12-14, 2012, in Jacksonville, FL.
- Tuler, S. 2012. Invited presentation at the Climate Adaptation Training for Local Governments in Southeastern Massachusetts Workshop, Waquoit National Estuary Reserve, Waquoit, MA, 24-26, April, 2012 (see www.waquoitbayreserve.org/eventshow.aspx?eventid=337 for more information)
- Mississippi-Alabama Sea Grant Consortium webinar*, Helping Coastal Communities Strategize Adaptations to Climate Change: How to Implement a Structured Dialogue Using an Interactive Diagramming Program. March 1st, 2012.
- Tuler, S. 2012. *Improving Understandings of Consequences, Vulnerabilities, and Adaptation Strategies to Climate Change Related Hazards*, Invited presentation to grantees workshop, MIT Sea Grant. (see http://seagrant.mit.edu/press_releases.php?ID=292).
- Tuler, S. 2012. *Risk communication in flood emergencies*. Invited presentation. Ministry of Natural Resources and the Environment, Bangkok, Thailand, 23 January, 2012.
- Tuler, S. 2011. Invited panelist for the *Consent-Based Radioactive Waste Siting Process: Finding a Better Path Forward*. Public Hearing of the Blue Ribbon Commission on America's Nuclear Future, 12 October 2011.
- Tuler, S. and Whitehead, J. 2011. *Helping Coastal Communities Strategize Adaptations to Climate Change: How to Implement a Structured Dialogue Using an Interactive Diagramming Program*. Training Workshop at the Coastal Zone 2011 meeting, Chicago, IL.

- Tuler, S. 2011. Invited presentation at the Gulf of Mexico Sea Grant Climate Outreach Community of Practice Workshop, Biloxi, MS, 1-2 June 2011.
- Tuler, S., Kettle, N., Dow, K., Whitehead, J., Webler, T., Miller, K. 2011. Integration of Local Planners' and Scientists' Knowledge of Consequences, Vulnerabilities, and Adaptation Strategies to Climate Change Related Hazards. Invited poster presentation for the *2011 Land Grant and Sea Grant National Water Conference*, Washington, DC, 31 Jan.– 1 Feb.
- Tuler, S., Kettle, N., Dow, K., Whitehead, J., Webler, T., Miller, K. 2011. Integration of Local Planners' and Scientists' Knowledge of Consequences, Vulnerabilities, and Adaptation Strategies to Climate Change Related Hazards. Invited presentation, *Interdisciplinary and Global Studies Division Seminar Series*, Worcester Polytechnic Institute, Worcester, MA. 22 November, 2011.
- Tuler, S. 2009. Lessons from the past: Addressing facility siting controversies. Invited presentation to the *Workshop on Addressing the Challenges of Climate Change Through the Behavioral and Social Sciences*, Committee on Human Dimensions of Global Environmental Change, National Research Council, December 3-4, 2009.
- Tuler, S., Webler, T., Lord, F. 2009. Characterizing social disruption from oil spills and spill response. Invited presentation *Clean Gulf 2009 Pre-Conference Workshop: Applied Research for the Spill Response Community*, New Orleans, LA, October.
- Tuler, S. 2009. Planning effective communication about public health risks: The need for participation. Invited presentation to the *Faculty of Public Health, Thammasat University*, Pahtumthani, Thailand, 30 March and 24 September.
- Tuler, S. 2009. Effective risk communication: Challenges and a framework for planning. Invited presentation to the *Petroleum Institute of Thailand*, Bangkok, Thailand, 3 April.
- Tuler, S. 2009. Planning effective risk communication. Invited presentation to a *Workshop sponsored by the Ministry of Public Health*, Department of Disease Control and Prevention in Rayong Province, Rayong, Thailand, 25 March.
- Tuler, S. and Chess, C. 2009. Planning effective communication. Invited presentation to the *Pollution Control Department*, Bangkok, Thailand, 19 March.
- Tuler, S. and Webler, T. 2008. Competing perspectives about oil spill response objectives: A comparison of stakeholders' views in four regions. Invited presentation for the *Clean Gulf 2008 Pre-Conference Workshop: Applied Research for the Spill Response Community*, San Antonio, TX, 28 October.
- Tuler, S. and Webler, T. 2007. Presentation to *Workshop on Getting the message out on Great Lakes restoration: Communicating with local communities on restoring Michigan's Great Lakes Areas of Concern*. Whitehall, MI, 9 November.
- Tuler, S. and Santos, S. 2007. Three evaluative tools to empower local communities in the environmental clean-up of sediment contaminated sites: Project Overview, Q Method, Focus Groups, and Comparative Analysis. Presentation sponsored by *Office of Public Affairs, EPA Region 5*, Chicago, IL, 19 September.
- Tuler, S. 2007. Establishing performance metrics for oil spill response, recovery, and restoration. Paper presented at the *Coastal Response Research Center PI Symposium*, NOAA, Seattle, WA, 19 April. www.crrc.unh.edu/workshops/2007symposium/index.htm.
- Tuler, S., Agyeman, J. 2006. Developing methods to identify and characterize vulnerable populations in northeast marine fisheries communities. Paper presented at the *Northeast Fisheries Science Center*, Woods Hole, MA, 17 May.

- Tuler, S. and Seager, T. 2006. Oil spill response assessment: Objectives and metrics. Paper presented at the *Coastal Response Research Center PI Symposium*, University of New Hampshire, Durham, NH, 14 March.
- Tuler, S., Webler, T., Santos, S., Chess, C., and Danielson, S. 2005. Three Evaluative Tools to Empower Local Communities in the Environmental Clean-up of Sediment Contaminated Sites: A Comparative Analysis. Presentation to *Office of Research and Development, Environmental Protection Agency*, 11 May.
- Tuler, S. and Webler, T. 2004. Public participation in environmental assessment and risk decision making. Paper presented at the *Northeast Fisheries Science Center, National Marine Fisheries Service*, NOAA, Woods Hole, MA, 2 June.
- Tuler, S. and Webler, T. 2003. Public participation and watershed planning: Defining "good" process. Paper presented at the *Northwest Fisheries Science Center and the Center for Water and Watershed Studies*, National Marine Fisheries Service, NOAA, Seattle, WA, 30 January.
- Webler, T. and Tuler, S. 2003. Employing Q Methodology to the Study of Public Participation: Results from Recent Research. Clark University, Worcester, MA.
- Tuler, S., Webler, T., Finson, R., and Tanguay, J. 2002. Perspectives on Public Participation at a Department of Energy Nuclear Weapons Facility: Addressing health risks from sewage sludge contaminated with plutonium released by Lawrence Livermore National Laboratory (CA). Paper presented to the *Sludge Working Group (Lawrence Livermore National Laboratory) Workshop*, Oakland, CA, 26 January, 2002.

Other Papers Presented

- Tuler, S. and Webler, T. 2020. Re-thinking the principle of consent in US nuclear waste management, Society for Risk Analysis Annual Meeting, Dec. 2020.
- McCauley, S. and Tuler, S. 2019. *A Community Science Campaign to Map Extreme Heat Locations in Worcester, Massachusetts*. Poster presentation, Massachusetts Ecosystem Climate Adaptation Network, 29 October, 2019.
- Dow, K. and Tuler, S. 2015. Fostering and evaluating learning in participatory adaptation processes, *National Adaptation Forum*, St. Louis, MO, 2015.
- Tuler, S. 2015. Characterizing the decision landscape to identify opportunities and barriers for climate adaptation in oyster aquaculture in Wellfleet, Massachusetts, *National Adaptation Forum*, St. Louis, MO, 2015.
- Tuler, S. and Webler, T. 2014. Considering climate change in hazard mitigation planning for coastal Massachusetts' communities, Social Coast Forum, Charleston, SC, February, 2014.
- Tuler, S., Dow, K., Whitehead, J., Webler, T., Kettle, N., Miller, K. 2012. Helping Coastal Communities Adapt to Climate Change Using the Vulnerability and Consequences Adaptation Planning Scenarios (VCAPS) Process, *Social Coast Forum, Charleston, SC. 15-16 February, 2012*.
- Tuler, S., Dow, K., Whitehead, J., Webler, T., Kettle, N., Miller, K. 2011. Integration of Local Planners' and Scientists' Knowledge of Consequences, Vulnerabilities, and Adaptation Strategies to Climate Change Related Hazards. *Coastal Zone 2011*, Chicago, IL, 17-21 July.

- Tuler, S., Dow, K., Whitehead, J., Webler, T., Kettle, N., Miller, K. 2011. Integration of Local Planners' and Scientists' Knowledge of Consequences, Vulnerabilities, and Adaptation Strategies to Climate Change Related Hazards. *Sixth Symposium on Policy and Socio-economic Research, held as part of the American Meteorological Society (AMS) 91st Annual Meeting*, Seattle, WA, 23-27 January.
- Tuler, S., Webler, T., and Polsky, C. 2009. Linking driving forces of vulnerability to the consequences of regulations in New England fishing communities: a causal model to inform fisheries management. *Coastal Zone 2009*. Boston. July 19-23.
- Webler, T. and Tuler, S. 2009. Characterizing social disruption from oil spills and spill response. *Coastal Zone 2009*. Boston. July 19-23.
- Tuler, S., Webler, T., Polsky, C., et al. 2008. Linking driving forces of vulnerability to the consequences of regulation: A causal model framework to inform fisheries management. Presentation at the *International Symposium for Society and Natural Resource Management*, Burlington, Vermont.
- Polsky, C., Tuler, S., Webler, T., et al. 2008. Assessing community vulnerability to the effects of fisheries regulations: Methodological challenges and opportunities with the vulnerability scoping diagram (VSD). *Presentation at the International Symposium for Society and Natural Resource Management*, Burlington, Vermont.
- Tuler, S., Webler, T., Seager, T., Kay, R., and Linkov, R. 2006. Bringing clarity to competing objectives and performance metrics in marine oil spill response: A deliberative approach to planning and assessing response. Paper presented at the *Society for Risk Analysis Meeting*, Baltimore, MD, 6 Dec.
- Linkov, I., Seager, T., Satterstrom, K., Linkov, I., Tuler, S., and Kay, R. 2006. Environmental Performance Metrics For Oil Spill Response. *NATO Workshop on Ports Security*, Venice, Italy, 16-19 March.
- Linkov, I., Seager, T., Tuler, S., and Kay, R. 2005. Poster presentation prepared for 2005 *EPA and Tri-Services Toxicology and Risk Assessment Conference*, Fairborn, OH, April 25-28.
- Satterstrom, K., Linkov, I., Seager, T., Linkov, I., Tuler, S., and Kay, R. 2005. Oil Spill Response, Recovery & Restoration: Multi Criteria Decision Analysis Approach. *NATO Workshop on Ports Security*, Thessalonica, Greece, 20-24 April,
- Seager, T., Tuler, S., Kay, R., and Linkov, I. 2005. Performance Metrics for Oil Spill Response, Recovery & Restoration: Understanding Stakeholder & Expert Perspectives. Poster presentation at the *Society for Environmental Toxicology and Chemistry Annual Meeting*, November 13-17.
- Tuler, S., Webler, T., and Tanguay, J. 2003. Preferences for public participation in three policy arenas. Paper presented at the *Annual meeting of the Society for Risk Analysis*, Baltimore, MD, 9 December.
- Tuler, S. and Webler, T. 2002. Radiation-related decision-making based on community participation and science. *American Association for the Advancement of Science (AAAS) Annual Meeting*. Boston, MA, February 14-19.
- Webler, T., Shockey, I., Tuler, S., Stern, P. 2000. Rationales for Local Involvement in Collaborative Ecosystem Management. *Eighth biennial conference of the International Association for the Study of Common Property (IASCP)*. Bloomington IN, May 31 - June 4.

- Webler, T., Tuler, S., Shockey, I., and Stern, P 1999. Factors Influencing the Participation of Local Government Officials in Collaborative Environmental Policy Making. Paper presented at the *Biennial International Meeting of the Risk Assessment and Policy Association*, Alexandria, VA, March 25-26.
- Webler, T. and Tuler, S. 1999. Competing and overlapping views on public participation: a Q-method approach. Paper presented at the *10th International Conference of the Society for Human Ecology*, Montreal, Quebec, May 27-30.
- Tuler, S. and Webler, T. 1999. Factors influencing the participation of local government officials in collaborative environmental policy making. Paper presented at the *10th International Conference of the Society for Human Ecology*, Montreal, Quebec, May 27-30.
- Tuler, S., Webler, T., and Krueger, R. 1998. Participants' Descriptions of a Good Participatory Decision Making Process: A case study on forest policy in New York / New England. Paper presentation at the *6th Annual Symposium on Society and Resource Management*. Columbia, MO, May 28-31.
- Webler, T. and Tuler, S. 1997. Process evaluation of democratic deliberation in natural resource policy-making. Paper presented at the *Biennial International Meeting of the Risk Assessment and Policy Association*, Alexandria, VA, March 6-7.
- Tuler, S. and Webler, T. 1997. How Much Participation Makes a Participatory Process Legitimate? Observations from Participants in Forestry Policy-Making and Nuclear Weapons Complex Management. Paper presented at the *Annual Meeting of the National Association of Environmental Professionals*, Orlando, FL, May 19-23.
- Tuler, S. and Webler, T. 1997. Designing deliberative models for environmental policy-making: Applying the National Research Council approach to two cases. Paper presented at the *9th International Conference of the Society for Human Ecology*, Bar Harbor, ME, 15-18 October.
- Webler, T. and Tuler, S. 1997. Voices from the forest: What participants expect of a public participation process. Paper presented at the *9th International Conference of the Society for Human Ecology*, Bar Harbor, ME, 15-18 October.
- Quigley, D., et al. 1997. Collaborative environmental health risk assessment and hazard management in Native American communities. Paper presented at the *Biennial International Meeting of the Risk Assessment and Policy Association*, Alexandria, VA, March 6-7.
- Tuler, S. and Webler, T. 1996. Public Participation in Natural Resource Disputes." Paper presentation at the *6th Annual Symposium on Society and Resource Management*. University Park, PA, May 19-22.
- Tuler, S. 1997. Learning how to talk collaboratively: A mediated-action perspective on public involvement in environmental policy discourse. Paper presented at the *Biennial International Meeting of the Risk Assessment and Policy Association*, Alexandria, VA, March 6-7.
- Tuler, S. and Webler, T. 1995. Evaluating public participation processes: A test of a new methodology. Paper presented at the *8th Society for Human Ecology Meeting*, Tahoe City, CA, October.
- Tuler, S. 1995. Social learning in discursive policy processes: An application from socio-cultural psychology. Paper presented at the *8th Society for Human Ecology Meeting*, Tahoe City, CA, October.

- Tuler, S. 1994. Development of mutual understanding among stakeholders in environmental policy disputes. Paper presented at the *7th Society for Human Ecology Meeting*, East Lansing, MI, April.
- Renn, O., van Vijnngaarden, L., Tivnan, D., Tuler, S., and Webler, T. 1991. Judgments about seriousness of risk: Empirical analysis of competing explanations. Paper presented at *Society for Risk Analysis Annual Meeting*, Baltimore, MD, Dec.
- Tuler, S., Machlis, G. and Kasperson, R. E. 1990. Professionalism in the face of distasteful risk: Mountain goat removal in Olympic National Park. Paper presented at *Society for Risk Analysis Annual Meeting*, New Orleans, LA, Oct.
- Tuler, S., Kasperson, R. E., and Ratick, S. 1988. The effects of human reliability on risk in the transport of spent nuclear fuel. Paper presented at *Society for Risk Analysis Annual Meeting*, Washington, DC, Nov.
- Tuler, S. and Hattis, D. 1986. Carcinogenesis risk assessment of two-carbon alkylating agents using dynamic simulation of absorption and metabolism. Paper presented at *Society for Risk Analysis Annual Meeting*, Boston, MA, Oct.

Unpublished Technical Reports

- Tuler, S. 2018. *Assessment of adaptation, policy, and capacity building outcomes from 14 VCAPS processes*. Report completed for the Carolinas Integrated Sciences and Assessments (CISA). Columbia, SC: University of South Carolina.
- Tuler, S. and Webler, T. 2016. *Understanding consent: Principles and challenges for a consent-based process to site facilities for interim and long-term storage of spent nuclear fuel and high level wastes in the United States*. Northampton, MA: Social and Environmental Research Institute.
- Tuler, S., Rhodes, J., and Webler, T. 2014. *Results from a VCAPS planning workshop for stormwater management and climate change in Beaufort County South Carolina: Final report*. Northampton, MA: Social and Environmental Research Institute.
- Tuler, S. and Webler, T. 2013. *Results from a VCAPS planning workshop for extreme weather in Dauphin Island, Alabama: Final report*. Greenfield MA: Social and Environmental Research Institute.
- Webler, T., Tuler, S., and Oriel, E. 2012. *Results from a VCAPS planning workshop for extreme weather in Orange Beach, Alabama: Final report*. Greenfield MA: Social and Environmental Research Institute.
- Webler, T., Tuler, S., and Pignatelli, T. M. 2012. *Results from a VCAPS planning workshop for extreme weather and climate change in New Bedford and Fairhaven, Massachusetts: Final report*. Greenfield MA: Social and Environmental Research Institute.
- Webler, T., Tuler, S., and Oriel, E. 2012. *Results from participatory hazard mitigation and climate change adaptation planning workshops in Boston: Final report*. Greenfield MA: Social and Environmental Research Institute.
- Tuler, S., and Webler, T. 2012. *Results of VCAPS Workshops on Hazard Mitigation Planning and Climate Change in Plymouth, MA: Final report*. Greenfield MA: Social and Environmental Research Institute.

- Tuler, S. and Hersh, B. 2012. *A Community Guide: Improving the links between future land-use and clean-up decisions*. Report prepared for the Alliance for Nuclear Accountability, Santa Fe, NM. 87 pages.
- Webler, T., Tuler, S. and Rosa, E. 2011. *Options for Developing Public and Stakeholder Engagement for the Storage and Management of Spent Nuclear Fuel (SNF) and High Level Waste (HLW) in the United States*. A Technical report prepared for the Blue Ribbon Commission on America's Nuclear Future. Washington, DC: Blue Ribbon Commission on America's Nuclear Future. Available online at: www.brc.gov/commissioned_papers.html
- Tuler, S., Chess, C., Langkulsen, U., and Vichit-Vadakan, N. 2011. *Risk communication by the Pollution Control Department: An analysis of officer attitudes about risk communication with external stakeholders*. Unpublished technical report prepared for the Thailand Pollution Control Department as part of research conducted under a Fulbright Fellowship.
- Tuler, S., Whitehead, J., Dow, K., Kettle, N., and Webler, T. 2011. *Preparing McClellanville's Stormwater Management for a Changing Future: Final report*. Greenfield MA: Social and Environmental Research Institute.
- Tuler, S., Whitehead, J., Dow, K., Kettle, N., and Webler, T. 2010. *Understanding the Vulnerability of Sullivan's Island to Climate Change: Final report*. Greenfield MA: Social and Environmental Research Institute.
- Tuler, S., Webler, T., and Dow, K. 2010. *Guidance for Human Dimensions Impact and Vulnerability Assessments in Marine Oil Spill Contingency Planning*. SERI Report 10-00s. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Dow, K., Lord, F., Tuler, S., & Webler, T. 2010. *Report on databases and tools available to assess vulnerabilities of human communities to oil spills*. SERI Report 10-004. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Dow, K., Lord, F., Tuler, S., & Webler, T. 2010. *Technical appendix on databases available to assess vulnerabilities of human communities to oil spills*. SERI Report 10-005. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Lord, F., Tuler, S., Webler, T., and Dow, K. 2010. *Case study report of the human dimensions of the Bouchard-120 spill in Buzzards Bay, Massachusetts*. SERI Report 10-001. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S., Webler, T., Dow, K., and Lord, F. 2010. *Case study report of the human dimensions of the DM-932 spill in New Orleans*. SERI Report 10-002. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Webler, T., Danielson, S., & Tuler, S. 2009. *Using Q method to reveal social perspectives in environmental research*. Greenfield MA: Social and Environmental Research Institute. Available on web at: www.seri-us.org/content/primer-q-methodology-available-free-download
- Tuler, S., Webler, T., Polsky, C. 2009. *Final Project Report for Risk-Based Approach to Rapid Vulnerability and Consequence Assessment*. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S., Webler, T., Polsky, C. 2009. *Guidance for Rapid Vulnerability and Consequence Assessment of Fisheries Management Plan*. SERI Report 09-005. Greenfield, MA: Social and Environmental Research Institute, Inc.

- Tuler, S., Webler, T., Polsky, C. 2009. A risk-based approach to rapid vulnerability assessment in New England fishery communities. Case study of the groundfishing sector in Chatham, Massachusetts. SERI Report 09-002. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S., Webler, T., Polsky, C. 2009. A risk-based approach to rapid vulnerability assessment in New England fishery communities. Case study of the groundfishing sector in coastal New Hampshire. SERI Report 09-003. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S., Webler, T., Polsky, C. 2009. A risk-based approach to rapid vulnerability assessment in New England fishery communities. Case study of the groundfishing sector in New Bedford, Massachusetts. SERI Report 09-004. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S., Webler, T., and Kay, R. 2008. *Comparing stakeholders' objectives for oil spill response: A Q study of four regions*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S. and Webler, T. 2008. *Defining and selecting objectives and performance metrics for oil spill response assessment: A process design integrating analysis and deliberation*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S. and Webler, T. 2007. *Assessing success of public participation: A literature review of criteria for evaluating ecological risk assessment workshops for oil spill response planning*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Webler, T., Danielson, S., and Tuler, S. 2007. *Guidance on the Use of Q Method for Evaluation of Public Involvement Programs at Contaminated Sites*. SERI Research Report 07-001. Greenfield, MA: Social and Environmental Research Institute.
- Tuler, S., Seager, T., Linkov, I., Webler, and Kay, R., 2007. *Final Report: Performance metrics for oil spill response*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S. and Kay, R. 2007. *Comparing stakeholders' objectives for oil spill response: A Q study of Buzzards Bay and San Francisco Bay*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S., Kay, R., Seager, T., and Linkov, I. 2006. *Objectives and performance metrics in oil spill response: The Bouchard-120 and Chalk Point spill responses*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Seager, T., Tuler, S., Kay, R., Linkov, I., and Satterstrom, K. 2006. *Environmental performance metrics for oil spill response*. Technical report submitted to the Coastal Response Research Center, NOAA Grant # NA04NOS4190063. Project Number: 05-983. Greenfield, MA: Social and Environmental Research Institute, Inc.

- Tuler, S., 2005. *Uncertainty and Social Amplification of Risk*. Unpublished manuscript. Greenfield, MA: Social and Environmental Research Institute, Inc.
- Tuler, S. 2003. *Relationships between process, context, and outcomes: Review of findings from multi-case study literature (N >= 5)*. Working Paper prepared for the National Research Council Committee on Human Dimensions of Global Environmental Change, 6 May, 2003.
- Tuler, S., T. Webler, and J. Tanguay. 2003. *Perspectives on Public Participation in the National Park Service, Case Study: Planning for the Boston Harbor Islands National Park Area*. SERI Research Report. Greenfield, MA: Social and Environmental Research Institute.
- Tuler, S., and T. Webler. 2003. *Perspectives on Public Participation in Forest Management Planning, Case Study: Forest Management in the Greater Flagstaff, Arizona Region*. SERI Research Report. Greenfield, MA: Social and Environmental Research Institute.
- Tuler, S., T. Webler, and J. Tanguay. 2003. *Perspectives on Public Participation at a Department of Energy Nuclear Weapons Facility, Case Study: Setting Clean Soil Standards at the Rocky Flats Environmental Technology Site*. SERI Research Report. Greenfield, MA: Social and Environmental Research Institute.
- Tuler, S., T. Webler, and J. Tanguay. 2003. *Perspectives on Public Participation at a Department of Energy Nuclear Weapons Facility, Case Study: Addressing Public Health Risks from Radiological Contamination Released by the Fernald Nuclear Weapons Facility (Ohio)*. SERI Research Report. Greenfield, MA: Social and Environmental Research Institute.
- Tuler, S., T. Webler, J. Tanguay, and R. Finson. 2003. *Perspectives on Public Participation in Forest Management Planning, Case Study: Forest Management in the Applegate Watershed*. SERI Report 93-002. Greenfield, MA: Social and Environmental Research Institute.
- Tuler, S., T. Webler, R. Finson, and J. Tanguay. 2003. *Perspectives on Public Participation at a Department of Energy Nuclear Weapons Facility, Case Study: Addressing Health Risks from Sewage Sludge Contaminated with Plutonium Released by Lawrence Livermore National Laboratory (CA)*. SERI Report 93-001. Greenfield, MA: Social and Environmental Research Institute.
- Golding, D. and Tuler, S. 2002. *A Comprehensive Study of Visitor Safety in the National Park System: Final Report*. Prepared for the National Park Service Under subcontract (# GNK756) to the University of Idaho, Cooperative Park Studies Unit, Moscow, ID.
- Tuler, S. and Golding, D. 2002. *A Review of the Literature for a Comprehensive Study of Visitor Safety in the National Park System*. Prepared for the National Park Service Under subcontract (# GNK756) to the University of Idaho, Cooperative Park Studies Unit, Moscow, ID.
- Golding, D., Tuler, S., Krueger, R., and Duda, M. 2002. *An Analysis of Visitor Accident Risk in the National Park System*. Prepared for the National Park Service Under subcontract (# GNK756) to the University of Idaho, Cooperative Park Studies Unit, Moscow, ID.
- Tuler, S. and Golding, D. 2002. *An Inventory of Hazards and Risk Conditions in the National Parks*. Prepared for the National Park Service Under subcontract (# GNK756) to the University of Idaho, Cooperative Park Studies Unit, Moscow, ID.

- Golding, D., Tuler, S., Mitchell, R., Krueger, R., and Duda, M. 2002. *A Survey of Visitor Safety in the National Park System*. Prepared for the National Park Service Under subcontract (# GNK756) to the University of Idaho, Cooperative Park Studies Unit, Moscow, ID.
- Tuler, S. 2002. Radiation Risk Perception and Communication: A Case Study of the Fernald Environmental Management Project. SERI Report 02-005. Greenfield, MA: Social and Environmental Research Institute.
- Webler, T., Tuler, S., Tanguay, J., and Dietz, T. 2001. Modelers' views on the role of models in watershed management. SERI Report 3. Leverett, MA: Social and Environmental Research Institute.
- Tuler, S. (ed.) 2000. Community Guide to Environmental Health Research Methods. Report prepared by the Childhood Cancer Research Institute, Worcester, MA as part of a subcontract with Clark University. 110 pgs.
- Tuler, S. and Webler, T. 1999. Developing a national plan for public and worker health activities in the US nuclear weapons complex: A proposed framework based on the National Research Council's analytic-deliberative approach. SERI Report 2. Leverett, MA: Social and Environmental Research Institute.
- Machlis, G. E. and S. P. Tuler. 1998. A Social Science Plan for Employee Safety in the National Park Service. Cooperative Park Studies Unit, University of Idaho, Moscow, Idaho. 99 pgs.
- Tuler, S. (ed.) 1998. Community Health Education Needs Assessment: Status, resources, and needs in communities affected by US nuclear weapons complex facilities. Report prepared by the Childhood Cancer Research Institute, Worcester, MA as part of a subcontract with Clark University. 125 pgs.
- Tuler, S. and Webler, T. 1997. Report on the state of the art on indicators for sustainable community development. Report prepared for the Sustainable Rural Community Development Project, University of Vermont by the Social and Environmental Research Institute, Leverett, MA. 54 pgs.
- Webler, T. and S. Tuler. 1996. *Generating Indicators of Sustainable Communities: A Review of the Literature on Process*. Report to the University of Vermont. SERI Research Report. Greenfield, MA: Social and Environmental Research Institute.
- Renn, O., Webler, T., and Tuler, S. 1992. Eine Studie zur Vorbereitung von Konfliktmanagement zur Sondermüllbeseitigung. Report prepared for the Technical University, Zurich, Switzerland by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 109 pgs.
- Tuler, S., Machlis, G. E., and Kasperson, R. E. 1993. A social risk assessment of the 1991 Winter Snow Removal Program at Mt. Rainier National Park. Report prepared for Mt. Rainier National Park, WA by the Cooperative Park Studies Unit, University of Idaho, Moscow, Idaho. National Park Service Technical Report NPS/PNRUI/NRTR-92/05. 80 pgs.
- Kasperson, R. E., Tuler, S., and Himmelberger, J. 1990. Field Studies of the Social Amplification of Risk. Report prepared for the Nevada Nuclear Waste Policy Office and Mountain West Research, Inc. by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 55 pgs.

Machlis, G. E., Kasperson, R. E., and Tuler, S. 1990. A social risk analysis of the Olympic National Park Mountain Goat Removal Project. Report prepared for Olympic National Park, Port Angeles, WA by the Cooperative Park Studies Unit, University of Idaho, Moscow, Idaho. National Park Service Reference #D-173. 74 pgs.

Kasperson, R. E., Golding, D., and Tuler, S. 1989. *Toward a conceptual framework for guiding future OCS research: A workshop report*. Seattle: Washington Sea Grant Program, University of Washington.

Tuler, S. January 1988. Individual, group, and organizational decision making in nuclear power plant emergencies: A review of research. Report prepared for the Three Mile Island Public Health Fund by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 35 pgs.

Golding, D., Kasperson, R. E., Ratick, S., Renn, O. and Tuler, S. May 1988. Risk assessment and risk management of nuclear waste transportation. Report prepared for the Nevada Nuclear Waste Policy Office and Mountain West Research, Inc. by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 42 pgs.

Renn, O. and Tuler, S. May 1988. Physical protection in the transportation system for spent nuclear fuel and other high level radioactive wastes: A needs assessment. Report prepared for the Nevada Nuclear Waste Policy Office and Mountain West Research, Inc. by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 11 pgs.

Golding, D., Kasperson, J. X., Kasperson, R. E., Ratick, S., Renn, O. and Tuler, S. June 1988. Risk assessment and risk management for the transportation of high-level radioactive waste: A literature review. Report prepared for the Nevada Nuclear Waste Policy Office and Mountain West Research, Inc. by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 39 pgs.

Tuler, S., Kasperson, R. E., and Ratick, S. June 1988. The effects of human reliability on risk in the transportation of spent nuclear fuel. Report prepared for the Nevada Nuclear Waste Policy Office and Mountain West Research, Inc. by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 217 pgs.

Emel, J., Cook, B., Kasperson, R. E. with Brown, H., Goble, R., Himmelberger, J., and Tuler, S. Sept. 1988. Risk management and organizational systems for high level radioactive waste disposal: Issues and priorities. Report prepared for the Nevada Nuclear Waste Policy Office and Mountain West Research, Inc. by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 87 pgs.

Kasperson, R. E., Golding, D., and Tuler, S. January 1988. Background considerations for designing effective decision systems for responding to nuclear plant emergencies. Report prepared for the Three Mile Island Public Health Fund by the Center for Technology, Environment, and Development, Clark University, Worcester, MA. 22 pgs.

Sheridan, T. B., Tuler, S., and Tani, D. 1987. Human foibles and the trustworthiness of command and control systems. Working paper prepared for the McArthur Foundation by the Man-Machine Systems Laboratory, Massachusetts Institute of Technology, Cambridge, MA. 10 pgs.

Hattis, D., Tuler, S., Finkelstein, L., and Luo, Z. 1986. A pharmacokinetic/mechanism-based analysis of the carcinogenic risk of perchloroethylene. Report prepared for the National Institute for Occupational Safety and Health and the National Institute for Environmental Health Sciences by the Center for Technology, Policy, and Industrial Development, Massachusetts Institute of Technology, Cambridge, MA. 179 pgs.

SERVICE

WPI committee or administrative assignments, department or campus-wide

WPI Faculty Governance Task Force on the Status of NTT Faculty, Appointed by Secretary of the Faculty, 2018 – 2019.

Global School Curriculum Committee, Worcester Polytechnic Institute, Worcester, MA, Summer 2019 – present.

Co-Director of the Boston Project Center, Interdisciplinary and Global Studies Division, Worcester Polytechnic Institute, Worcester, MA, 2012 – present.

Co-Director of the Bangkok Project Center, Interdisciplinary and Global Studies Division, Worcester Polytechnic Institute, Worcester, MA, 2011 – 2018.

WPI IQP Assessment (led by Kent Rissmiller), 2013, 2016.

WPI Global and Multicultural Competency Learning Outcome Taskforce (GMCLOT), Summer 2017.

Board and national policy committee memberships

Mystic River Watershed Association, Steering Committee member, 2019.

National Academies of Sciences, Engineering, and Medicine's Committee on Alternatives for the Demilitarization of Conventional Munitions, 2017 – 2018.

National Academies of Sciences, Engineering, and Medicine's Standing Committee on Chemical Demilitarization, 2016 – 2018.

National Academies of Sciences, Engineering, and Medicine's Committee on Review of Criteria for Successful Treatment of Hydrolysate at PCAPP and BGCAPP, member, 2015.

National Center for Environmental Research, Standing Subcommittee, Environmental Protection Agency Board of Scientific Counselors, member, 2007 – 2010.

National Academies of Sciences Committee on Transportation of High Level Radioactive Waste and Spent Nuclear Fuel, member, 2003 – 2006.

Federal Advisory Committee on Energy-Related Epidemiologic Research, Member and Chair of the Subcommittee for Community Affairs, 1999 – 2002.

National Cancer Institute – Centers for Disease Control and Prevention, Communications Development Group (CDG) to provide input and guidance for public health programs and research concerning the public health impacts of I-131 exposure from the Nevada Test Site (NTS), 1999-2001.

Ad Hoc Working Group of the National Cancer Institute on Radio-Epidemiological Tables, Member, 1998 - 1999.

Social and Environmental Research Institute, Board of Directors (and co-founder), 1995 – present.

Memberships and offices held in professional societies

Citizen Science Association

Society for Human Ecology, At-Large Board member (2004 – 2009), Treasurer (1997-2004)

Society for Risk Analysis

American Society for Adaptation Professionals

Editorial, conference organization, and referee services

Community Involvement Fund (Administered by the New Mexico Community Foundation),
Program and Review Committee, member, 2010 – 2014.

Research proposals reviewed for:

Community Involvement Fund
Delaware Sea Grant
Educational Foundation of America
Environmental Protection Agency
National Science Foundation
New Hampshire Sea Grant
NOAA Center for Sponsored Coastal Ocean Research
NOAA Ocean Acidification Program
Woods Hole Sea Grant

Papers reviewed for:

BioScience
Ecology and Society
EIA Review
Environmental Communication
Environmental Conservation
Fisheries
Human Ecology Review
Journal of Coastal Management
Journal of Environmental Management
Journal of Policy Studies
Journal of Risk Research
Journal of the American Water Resources Association
Local Environment
Ocean and Coastal Management
Policy Studies Journal
Research in Social Problems and Public Policy
Risk Analysis: An International Journal
Society and Natural Resources
Technology in Society
Weather, Climate, and Society

Significant civic, cultural, religious, and similar contributions

Wendell Full Moon Coffee House, (organizing) committee member, 2011 – present.
Alliance for Nuclear Accountability, Board of Directors, 2005 – 2009, 2012 – 2014.
Leverett Village Market Coop, Board of Directors, 2008 – 2014.

Honors, awards and recognition for service

Alliance for Nuclear Accountability Grassroots Award for promoting public involvement in clean-up of nuclear weapons sites, 2008.
William L. Stewart, Jr. Award for Outstanding Contributions to Extracurricular Life at the Massachusetts Institute of Technology, 1986.
Award for Excellence and Leadership in Technology and Policy, Massachusetts Institute of Technology, 1986.