

**DAVID M. HASSENZAHL**

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Greenspun College of Urban Affairs  
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Ph.D. Princeton University, 2000, M.A. 1998  
Program in Science, Technology and Environmental Policy  
Woodrow Wilson School of Public and International Affairs  
B.A. University of California at Berkeley, 1989  
Environmental Science and Paleontology (Honors)

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**Academic Positions**

2006 - Chair, Department of Environmental Studies, Studies, Greenspun College of Urban Affairs, University of Nevada, Las Vegas  
2006 - Associate Professor of Environmental Studies, Greenspun College of Urban Affairs, University of Nevada, Las Vegas  
2000 – 2006 Assistant Professor of Environmental Studies, Greenspun College of Urban Affairs, University of Nevada, Las Vegas

**Awards and Recognition**

UNLV Foundation Distinguished Teaching Award, 2006  
Greenspun College of Urban Affairs Outstanding Researcher Award, 2004  
Greenspun College of Urban Affairs Outstanding Teacher Award, 2003  
Princeton University Society of Fellows of the Woodrow Wilson Foundation, 1998-2000  
UC Berkeley Honor Students Society, 1987 – 1989

**Grants**

2006. "Highly Uncertain Risks: Prospects for Improved Assessment and Management." NSF HSD FY 2005. Total amount \$125,000; UNLV component \$8,000.  
Co-PI: PI Rob Goble, Clark University. Co-PI's: Seth Thuler, Roger Kasperson, Dale Hattis (Clark University); Vicki Bier, University of Wisconsin, Madison  
2005. Recruitment Incentive Grant. \$1000. Co PI Helen Neill.  
2005. UNLV Applied Research Initiative Grant: General Education Writing Links Pilot. Multiple UNLV PI's. Total request amount \$30,000.  
2003 "Using System Dynamics for Sustainable Integrated Resource Planning in Southern Nevada." UNLV Applied Research Initiative (\$69,988), Southern Nevada  
Regional Planning Coalition (\$75,000), Regional Transportation Commission of Southern Nevada (\$50,000). Total: \$194,988 Co- PI. PI: Dr. Krystyna Stave.  
2003. Society for Risk Analysis young investigator travel award for World Conference on Risk Analysis (\$1000)  
2003. Project THREAD travel award to deliver paper at SITE 2003. (\$850)  
2002. UNLV New Investigator Award \$10,000  
2002. Project THREAD Teaching with Technology grant. \$8000 (+ \$8000 matching funds)  
2001. Project THREAD Teaching with Technology grant. \$2000  
2000. Post-Doctoral summer stipend, sponsored by Professor Frank von Hippel.  
1998-2000. Graduate Student Fellow, Society of Fellows of the Woodrow Wilson Foundation. (Tuition and Stipend)  
1998-1999. New Jersey State Comparative Risk Project grant from New Jersey Department of Environmental Protection. PI: Professor Clinton J. Andrews, Rutgers  
University. (\$50,000)  
1998. Woodrow Wilson Fellowship Program Summer Stipend (\$3800)

**Memberships**

IEEE Society on Social Implications of Technology (2007 Conference Chair)  
Risk Assessment and Policy Association (President Elect)  
Society for Risk Analysis (Chair, Education Committee)  
American Association for the Advancement of Science  
Golden Key International Honour Society (Honorary)

**Editorial Boards**

2004 – Coeditor, Risk: Health, Safety and Environment (first issue expected mid 2007).  
2003 – Creative College Teaching Journal  
1998-2001 Technical Review Board, Princeton Journal of Bioethics.

**Committees**

UNLV: Faculty Senate General Education Committee (Chair), Honors Council, Graduate College Curriculum Committee

## Teaching

Chair, Education Committee, Society for Risk Analysis

Designer, the *Risk Analysis Teaching and Learning Website*. <http://www.unlv.edu/faculty/dmh/ratl/>

2004 – 2006 UNLV Environmental Science Graduate Program Coordinator

2000 – 2003 UNLV Environmental Studies Undergraduate Program Coordinator

Founding Member, UNLV Scholarship of Teaching and Learning Steering Council

### *Graduate Courses Taught*

Risk Assessment and Management; Environmental Risk Decision Making; Decision Making for Public Affairs; Environmental Policy; Research Methods; Risk Assessment and Management for Emergency, Crisis and Homeland Security

### *Undergraduate Courses Taught*

Decision Making Under Uncertainty; Risk Assessment and Management; Senior Seminar; Introduction to Environmental Science; Environment and Development.

## Professional, Consulting and Advisory work

### **2002 - 2005**

Technical Advisor (pro bono), Clark County GIS Vulnerability Assessment Project

### **1998-2002**

Ombudsman (pro bono), New Jersey Department of Environmental Protection's Comparative Risk Project.

### **1998-2000**

Vice President, Board of Directors, Advanced Energy Analysis.

### **1991-1995**

Air Quality Inspector, Bay Area Air Quality Management District, San Francisco Bay Area, California. Primary responsibility to ensure compliance with air quality rules and regulations in the Bay Area.

### **1990-1991**

Environmental Engineer, Gaylord Container Corporation, Antioch, CA. Responsible for all aspects of environmental compliance for Gaylord's California Mill, a virgin fiber and recycled corrugated cardboard pulp and paper mill.

## Publications

(Some of these are available as abstracts, papers, PowerPoint or streaming audio at <http://www.unlv.edu/faculty/dmh/>)

### *Books*

**Hassenzahl, D. M.** (2006). *Instructor's Manual for Environment 5/e*. J. Wiley and Sons, Hoboken, NJ.

Kammen, D. M. and **Hassenzahl, D. M.** (1999). *Should We Risk It? Exploring Environmental, Health, and Technological Problem Solving*. Princeton University Press. This book has been a featured offering of the Library of Science Book Club. Revised Paperback edition 2001; Japanese Language edition 2001 (Springer-Verlag Tokyo).

In Progress:

Raven, P., Berg, L. and **Hassenzahl, D. M.** (2007). *Environment, 6/e*. J. Wiley and Sons, Hoboken, NJ.

### *Refereed Journal Articles*

Neill, H.N., **Hassenzahl, D. M.** and Assane, D. (forthcoming). "Estimating the Effect of Air Quality: Spatial versus Traditional Hedonic Price Models" Accepted for publication in *Southern Economics Journal*.

**Hassenzahl, D. M.** (2006). "Implications of Excessive Precision for Risk Comparisons: Lessons from the Past Four Decades." *Risk Analysis* 26(1): 265 - 276

**Hassenzahl, D. M.** (2005). "The effect of uncertainty on 'risk rationalizing' decisions." *Journal of Risk Research* 8(2), 119 – 138.

Jackson, D., Engstrom, E., and **Hassenzahl, D. M.** (2005). Effects of sex and seating arrangement on selection of leader. *Perceptual and Motor Skills*.

Andrews, C. J., **Hassenzahl, D. M.** and Johnson, B. B. (2004). "Accommodating Uncertainty in Comparative Risk." *Risk Analysis* 24(5): 1323 - 1335.

**Hassenzahl, D. M.** (2004). "Risk analysis and uncertainty: implications for counseling" *Guidance and Counselling* 19(2) pp 65 – 71.

**Hassenzahl, D.M.** and Mynster, P. (2004) "Integrating Technology into Introductory Environmental Science for Prospective Teachers." *Creative College Teaching Journal* 1(1).

Cox, L. A., Chiu, W. A., **Hassenzahl, D. M.** and Kammen, D. M. (2000). "Response to Wilson, D. 'Low Dose Responses'" *Risk Analysis* 20(3) 297 – 298.

Chiu, W. A., **Hassenzahl, D. M.** and Kammen, D. M. (1999). "A Comparison of Regulatory Implications of Traditional and Exact Two-stage Dose-Response Models." *Risk Analysis* 19(1) 15-22.

### *Book chapters*

**Hassenzahl, D.M.** and Finkel A.F. (forthcoming). "Risk Assessment for Environmental and Occupational Health." Encyclopedia of Public Health, Elsevier Press.

**Hassenzahl, D. M.** (2004). "Uncertainty as a resource in risk comparisons." In Linkov, I. and Ramadan, A. eds. *Comparative Risk Assessment and Environmental Decision Making* Kluwer.

Rigas, M. L., **Hassenzahl, D. M.** and Argo, L. (2002). "Population Extremes." In Charlet, D, (Ed.) *Nevada Environmental Issues* pp 5 - 17. Dubuque, IA: Kendall-Hunt Publishing.

### *Book Reviews*

**Hassenzahl, D. M.** (2005). "Tickner, J.A. *Precaution: Environmental Science and Preventive Public Policy*." Reviewed in *Journal of Risk Research*. 8(3): 273 – 275.

**Hassenzahl, D. M.** (2005). "Sunstein, C. *Risk and Reason: Safety, Law and the Environment*." Reviewed in *Journal of Risk Research* 8(2): 178 – 180.

**Hassenzahl, D. M.** (2004). "McDaniels, T. and Small, M., *Risk Analysis and Society: An Interdisciplinary Characterization of the Field*" Reviewed in *Risk Analysis* 24(5) 1409 – 1412.

### *Conference presentations and proceedings*

**Hassenzahl, D.M.** (2006). "A classification of high uncertainty challenges to risk management." Paper accepted for presentation at the Annual Meeting of the Society for Risk Analysis," December 4 - 6, 2006, Baltimore MD.

Neill, H. Assane, D. and **Hassenzahl, D. M.** (2006). Paper accepted for presentation at the Annual Meeting of the Society for Risk Analysis, December 4 - 6, 2006, Baltimore MD.

Smith, B., Vaynsky, D. and **Hassenzahl, D. M.** (2006). Designing the best "new" source of water during drought. Poster at the Geology Society of America

- Simili, B., Youngsoo, D. and **Hassenzahl, D. M.** (2006). Designing the best source of water during drought. Poster at the Geology Society of America Conference Managing Drought and Water Scarcity in Vulnerable Environments: Creating a Roadmap for Change in the United States. September 28 – 30, 2006.
- Hassenzahl, D. M.** (2006). Parsing extreme uncertainty: climate change and nuclear waste. Proceedings of the International Symposium on Technology and Society, Queens, NY, June 7 – 8, 2006.
- Ruhoy, I and **Hassenzahl, D. M.** (2005). Risk of inhalation exposure to bromoform following disinfection of spas and hot tubs. Poster Presentation at the Annual Meeting of the Society for Risk Analysis, December 6 - 8, 2005, Orlando FL.
- Hassenzahl, D. M.**, Tillery, D. M. and Laidler, P. (2005). "Technical Risk Information: Decision Tool or Rhetorical Ammunition? Undisputed Facts in the Yucca Mountain Debate." *Proceedings of the International Symposium on Technology and Society*, Los Angeles, CA, June 11 – 13 2005.
- Neill, H. Assane, D. and **Hassenzahl, D. M.** (2005). *Environmental Characteristics, Congestion, and Spatial Approaches*. Paper accepted for presentation at the American Real Estate Society Annual Meeting, April 13 – 16 2005, Santa Fe, New Mexico.
- Hassenzahl, D. M.** (2004). "The Relevance of Failure Testing of High-Level Nuclear Waste Transportation Containers." Poster at the Annual Meeting of the Society for Risk Analysis, December 6 - 8, 2004, Palm Springs, CA.
- Hassenzahl, D. M.** (2004). "Risk Analysis Courses and Programs in the US and Canada." Oral Presentation at the Annual Meeting of the Society for Risk Analysis, December 6 - 8, 2004, Palm Springs, CA.
- Hassenzahl, D. M.** and Barr, C. F. (2004). Social Science and International Content in Risk Analysis Courses. *Proceedings of the International Symposium on Technology and Society*, Worcester MA, June 17 – 19 2004.
- Hassenzahl, D. M.** (2003) "Implications of Spurious Precision for Risk Comparisons." Annual Meeting of the Society for Risk Analysis, December 2 – 5, 2003, Baltimore, MD. Nominated to Best Paper competition.
- Hassenzahl, D. M.** (2003) "Uncertainty and Risk-Driven Decisions: Tension in US Regulatory Policy." Invited paper, US Environment-2003 Online Conference. Logcom Solutions, London, UK. [www.USEnvironment-2003.com](http://www.USEnvironment-2003.com).
- Mynster, P. and **Hassenzahl, D. M.** (2003). Evaluating Decision-Makers' Reactions to Uncertain Decisions (Accepted for the Annual Meeting of the Society for Risk Analysis, December 2 – 5, 2003, Baltimore, MD)
- Hassenzahl, D. M.**, Goble, R., Hattis, D., and Clauberg, M. "Comparing regional, regulatory and disciplinary methods for defining and managing uncertainty." Mini symposium at the 2003 World Congress on Risk Analysis, June 22 – 25, 2003, Brussels, Belgium.
- Neill, H.N., and **Hassenzahl, D. M.** (2003). "Communicating Environmental Health Risks to the General Public: An Examination of an Information Intervention for Ultraviolet Radiation." Poster for the 2003 World Congress on Risk Analysis, June 22 – 25, 2003, Brussels, Belgium.
- Neill, H.N., and **Hassenzahl, D. M.** (2003). "Communicating Environmental Health Risks to the General Public: An Examination of an Information Intervention for Ultraviolet Radiation." Paper accepted for the 2003 Conference of the Western Social Science Association.
- Neill, H.N., **Hassenzahl, D. M.** and Assane, D. (2003). "A Monte Carlo Analysis of Hedonic Models Using Traditional and Spatial Approaches" Accepted for the 2003 Association of Environmental and Resource Economists 2003 Workshop – Spatial Theory, Modeling, and Econometrics in Environmental and Resource Economics
- Hassenzahl, D. M.** (2003). "Integrating Technology into Introductory Environmental Science for Prospective Teachers." Paper at the Society for Information Technology & Teacher Education International Conference.
- Hassenzahl, D. M.** (2002). "Risk Analysis Teaching and Learning Website: A Clearinghouse for Risk Education Resources." Poster delivered at the Annual Conference of the of the Society for Risk Analysis.
- Hassenzahl, D. M.** (2002). "Technical limitations of Cost Effectiveness Analysis." Paper delivered at the Society for Risk Analysis-Europe, Berlin, Germany, July 21 - 24, 2002.
- Rigas, M. L. & **Hassenzahl, D. M.** (2002). "The use of computer modeling packages to illustrate uncertainty in risk assessments: An ease of use comparison. Poster at the EPA/NATO Colloquium on Using Urban Ecology for Environmental Management."
- Hassenzahl, D. M.** (2001). "Propagating Uncertainty in Risk Prioritizations." Paper accepted for the 2001 Annual Conference of the Society for Risk Analysis.
- Rigas, M. L. and **Hassenzahl, D. M.** (2000). "The use of computer modeling packages to illustrate uncertainty in risk assessments: An ease of use comparison" Poster at the Conference of the International Society for Exposure Analysis. October 24-27, 2000, Monterey Peninsula, CA
- Hassenzahl, D. M.** (1999). "Complexities of Single Metric Risk Comparisons." Paper and presentation for the 1999 Association for Public Policy and Analysis Annual Conference, Washington, DC, November 4-6.
- Hassenzahl, D. M.** (1999) "Uncertainty as a resource: using better risk characterization to focus discussions of values." 3<sup>rd</sup> Annual International Public Policy and Social Science Conference, Queens College, Oxford, 28-30 June.
- Hassenzahl, D. M.**, Kammen, D. M., Goble, R. L., Hattis, D. B. (1998). "Can risk assessments conclude that there is no risk?" Paper and presentation for the *Society for Risk Analysis* Annual Meeting (6-9 December, 1998, Phoenix, Arizona).
- Hassenzahl, D. M.** (1997). "Outcomes, Proxies and Standards: Performance-Based Environmental Management Approaches within Arbitrary (Political) Boundaries," in *Proceedings of the 1997 IEEE International Symposium on Technology and Society*.
- Evaluation of the Impacts of a Waste Incineration Facility for Mercer County, New Jersey*. Class Project for WWS-589, Methods in Science, Technology and Public Policy, May 1997.
- Hassenzahl, D. M.** (1996). "The Role of Experts In Hazardous Waste Legislation," in *Proceedings of the 1996 IEEE International Symposium on Technology and Society*.

#### Other Presentations and reports

- Hassenzahl, D. M.** (2003). "Risk, Trust, Knowledge and the Yucca Mountain Project." Invited Honors Athenaeum Presentation, October 14, 2003.
- Hassenzahl, D. M.** (2003). "Information, Nuclear Waste and Native Communities." Forum on Native Americans and Nuclear Waste Management. August 27 - 29, 2003.
- Hassenzahl, D. M.** (2003). "Risk, Trust and Knowledge." Sermon Shared with the Unitarian Universalist Congregation of Las Vegas. August 3, 2003.
- Hassenzahl, D. M.** (2003). "Clark County Pre-Disaster Mitigation Project: Mid-Project Update." White Paper produced for the Clark Counting GIS Vulnerability Study.
- Hassenzahl, D. M.** (2002). "Clark County Pre-Disaster Mitigation Project: Suggestions for Project Initiation." White Paper produced for the Clark Counting GIS Vulnerability Study.
- Hassenzahl, D. M.** (2002). "Monte Carlo Analysis for Complex and Uncertain Decisions." HazMat Explo6 Conference and Exposition.
- Hassenzahl, D. M.** (2002). "Dynamics of Environmental and Wellness Management: A Parallel Thread." Advances in Health and Wellness: Living Well in Las Vegas Conference.
- Hassenzahl, D. M.** (2002). "Risk Management: Lessons for the ICC Performance Code." Invited Presentation to the Structural Engineers Association of Southern Nevada, August 8, 2002.
- Hassenzahl, D. M.** (2002). "Yucca Quakes". Invited commentary on KNPR, Nevada Public Radio, June 26, 2002..
- Hassenzahl, D. M.** (2002). "Issues in Risk Communication: The Intractable Case of Yucca Mountain." Invited Presentation to the Society for Chemical Hazard Communication 2002 Annual Meeting, April 16, 2002.

**Hassenzahl, D.M.** (2002). Unqualified opinions on global warming. Letter to the Editor of the Las Vegas Review Journal, April 24, 2002.

**Hassenzahl, D.M.** (2002). Risk and Trust. Invited commentary on KNPR, Nevada Public Radio.

**Hassenzahl, D.M.** (1986). Glenbrook Suite for Sting Quartet. Composition Commissioned by Robert T. Nahas.

**Hassenzahl, D. M.** (author), Hassenzahl, Hilary C. (illustrator). *Dinosaur Stew*. 18 page picture book for young readers. Time travel, vegetarian cooking. In progress

*Conference discussions and reviews*

Invited Panelist (declined). Responding to a Skeptic's Take on Climate Change Science. April 19, 2002

External reviewer, California Department of Health Services Guidelines for EMF Risk Assessment.

Invited discussant, 2001, Society for Risk Analysis panel: *Collaborative Risk Analysis and Public Policy*.

Invited discussant, 1998 and 1999, Association for Public Policy Analysis and Management Annual Research Conference session: Regulation and Environmental Management—Behavioral Decision Theory Perspectives.