

Jun 2nd, 7:30 AM - 3:30 PM

International Symposium on Technology and Society Program

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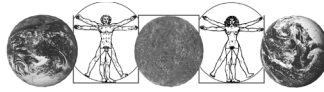
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Welcome to the 2007 International Symposium on Technology and Environment.

This year celebrates the 50th anniversary of the University of Nevada, Las Vegas, providing a great opportunity to reflect on the social and technological phenomena that have put Las Vegas on the map. Las Vegas is known worldwide as a place where high tech—surveillance, mechanical engineering, architecture, and probability—meet humanity's most ancient impulses—gambling and entertainment. Extreme hospitality in an extremely inhospitable environment.

At the same time, we're known as the host of decades of atomic testing, and a likely site for long-term high level nuclear waste storage. We hope that you enjoy your days with us at the Stan Fulton Building, home of the William F. Harrah College of Hotel Administration.

UNLV is a doctoral-degree-granting institution of 28,000 students and 3,300 faculty and staff. Founded in 1957, the university offers more than 220 undergraduate, master's and doctoral degree programs. UNLV is located on a 350-acre campus in dynamic Southern Nevada and is classified in the category of Research Universities (high research activity) by the Carnegie Foundation for the Advancement of Teaching.

David M. Hassenzahl, Ph.D.
Chair, UNLV Department of Environmental Studies
Chair, ISTAS 2007

Ilene Ruhoy, M.D.
Ph.D. Candidate, UNLV Program in Environmental Science
Coordinator, ISTAS 2007

**2007 International Symposium on Technology and Society
Risk, Vulnerability, Uncertainty, Technology and Society
Stan Fulton Building
University of Nevada, Las Vegas**

Thursday, May 31

5:00 – 8:00 Reception, Atomic Testing Museum

Friday, June 1

7:30 – 8:30 Continental Breakfast

8:30 – 10:00 Introductory Comments:

Martha Watson, Dean, Greenspun college of Urban Affairs

David Ashley, UNLV President

Karl Perusich, SSIT President

Keynote

“When Nuclear Fears Come Into Conflict: Fears of radioactive waste
vs. the fear of nuclear-weapon proliferation”

Dr. Frank N. von Hippel: Program in Science, Technology and
Public Policy and Center for Science and Global Security, Princeton
University

10:00 – 10:20 Break

10:20 – 12:00 Sessions 1 and 2

12:00 – 1:15 Luncheon

Awards

Presentation:

“The Crisis in Scholarly Communication”

Patty Iannuzzi, Dean of Libraries

Christopher Sugnet, Interim Director of Research and Education,
UNLV Libraries

1:20 – 3:00 Sessions 3, 4 and 5

3:00 – 3:20 Break

3:20 – 5:00 Sessions 6 and 7

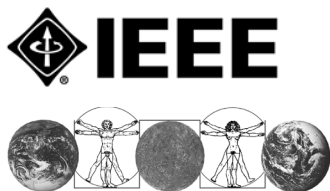
5:00 – 5:45 No-host bar / Gaming Floor Training session

5:45 – 8:00 Banquet

Saturday, June 2

- 7:30 – 8:30 Continental Breakfast
- 8:30 – 10:10 Sessions 8 and 9
- 10:10 – 10:30 Break
- 10:30 – 12:10 Sessions 10 and 11
- 12:10 – 1:30 Luncheon
“Surveillance City; the Eye That Never Blinks”
Jeff L. Voyles, President, Global Network Consulting, LLC
- 1:30 – 3:30 IEEE-SSIT BOG Meeting

Sponsors:



IEEE-Society on Social Implications of Technology
Risk Assessment and Policy Association



UNLV Department of Environmental Studies
and Institute for Security Studies

Session 1

	Name	Title
1a	Bales, Ellen	From Calamity Mesa to Boyertown, Pennsylvania: Risk, Radon, and Regulation in Cold War America
1b	Carr, Leisl	Rationalizing the Home Front: The Cold War, the Nevada Test Site, and Radiation Exposure
1c	Kuchinskaya, Olga	The Problem of Scientific Uncertainty and Identifying Health Effects of the Chernobyl Radiation
1d	Palevsky, Mary	Cold War Techno-Science in Nevada: The Nevada Test Site Oral History Project
1e	Sims, Benjamin Henke, Christopher	Stockpile Stewardship and the Reliable Replacement Warhead: Socio-Technical Repair in the Nuclear Weapons Complex

Session 2

	Name	Title
2a	Adams, Daniel	White Paper on Business/Engineering Ethics
2b	Arkin, Ronald	Lethality and Autonomous Robots: An Ethical Stance
2c	Eveleth, Lois	Managing the Uncertainty of Ethical Codes
2d	Gawkowska, Anna	Neuroenhancement: an Ethical Analysis
2e	Moix, Daniel Ramaswamy, Srin	Societal-Consciousness Computing: A Time for Serious Introspection

Session 3

	Name	Title
3a	Létourneau, Carmel	Application of Adaptive Management for Complex Environmental Issues
3b	Goble, Rob Winkler, Devon Hassenzahl, David Létourneau, Carmel	Asking Questions and Gathering Information: Risk and Uncertainty Perspective on Radioactive Waste Management in the US and Canada
3c	Andrews, Clint	Discussing State Energy Policy Targets
3d	Park, Hyunsoo	Electricity Industry's Response to Large Scale Blackouts
3e	Li, Ye	Scenario-Based Analysis on the Impacts of Plug-In Hybrid

Session 4

	Name	Title
4a	Botros, Farag	Block-Effective Dispersivity in Heterogeneous Media: Effects of Porosity and Distribution Coefficient Variability
4b	Chapman, Jenny	Using Uncertainty to Guide Characterization, Closure, and Long-Term Management of an Underground Nuclear Test Site
4c	Pohlmann, Karl	Use of Numerical Groundwater Modeling to Evaluate Uncertainty in Conceptual Models of Recharge and Hydrostratigraphy
4d	Steenhuisen, Bauke	Managing Infrastructure Vulnerability: An empirical study on the use of performance management systems in reducing vulnerability of network industries
4e	van der Voort, Haiko deBruijn, Hans	How Investigation Committees Stimulate and Block Learning from Disasters

Session 5

	Name	Title
5a	Abbas, Roba	The Risk Potential of eGovernment Initiatives to National Security in Australia
5b	Abbey, Amanda	State of the Union: The Power and Perils of Electronic Voting
5c	Frazzini, Ronald	Historical Risk Mitigation in Commercial Aircraft Avionics as an Indicator for Intelligent Vehicle Systems
5d	Taylor, Karen Widlea Koehler, Andrew	In Defense of Ugliness: The Role of Technical Presence in Critical Infrastructure System Endurance
5e	Tseng, Paul T.	The Legal and Societal Issues about the Adoption of Electronic Health Record (HER) in Taiwan

Session 6

	Name	Title
6a	Bechtel, Dennis	The National Environmental Policy Act (NEPA): Is It All It Can Be?
6b	Jha, Yamini	Organizational Issues and Electric Supply Restoration in the Aftermath of the Tsunami in India
6c	Perusich, Karl	Using Organizational Structure to Overcome Uncertainties in Technology
6d	Koehler Wiedlea, Andrew	Towards a Political Framework for Socio-Technical System Design
6e	Zessner, Walter W.	Innovative Socio-Technological Evolutions: A Conceptual Ecology Dynamic Between Open-Ended and Close-Ended Transformation?

Session 7

	Name	Title
7a	Farnham, Timothy	Technology and the Creation of Wilderness: The Making of Quabbin Reservoir
7b	Hardee, Jeff	Managing Uncertainty in Cyprus: Technology Development on a Divided Island
7c	He, Bin	Evaluation of Groundwater Risk due to Anthropogenic Activities in a Coastal Plain of the Seto Inland Sea, Japan
7d	Pfatteicher, Sarah	"A New Era" The Limits of Engineering Expertise in a Post-9/11 World
7e	Smith, William J. Jr.	A Comparative Geographic Analysis of the Impact of Scale on Hazards and Vulnerability in Industrialized Continental Lands and Small Pacific Islands

Session 8

	Name	Title
8a	Briggs, Chad	National Security, Risk, and the Politics of Precaution: Addressing the Military Role in Endocrine Disrupting Chemicals
8b	Byrne, Pat Durant-Law, Graham	A Strategic Risk Based Approach to Regulating Technologies and Vulnerabilities
8c	Jones, Mavis	Qual + Quant = ? Integrating the Social with the Technical in a Regulatory Evidence Base
8d	Ruhoy, Ilene	Prescribing for the Environment
8e	Salas, Roberto	Contamination by Mercury and Its Consequences and Impacts in the Ecology and Rural Population

Session 9

	Name	Title
9a	Bogumil, R.J.	The Century of Living Dangerously, Part II: Confronting Uncertainty
9b	Ekekwe, Ndubuisi	Security and Risk Challenges of Voice Over IP Telephony
9c	Greenhalgh, Ted	Assessing the Homeland Security Advisory System
9d	Hartwell, Ted	The Community Environmental Monitoring Program: Reducing Public Perception of Risk through Stakeholder Involvement
9e	Kazakos, Demetrios	Media Ownership Concentration and Its Effects To Society

Session 10

	Name	Title
10a	Liles, Samuel	Cyber warfare compared to fourth and fifth generation warfare as applied to the Internet
10b	Perkins, Jennifer Vammen, Chris	An Unobserved Societal Issue, Video Game Addiction in the 21st Century
10c	Robbins, Jeff	Gaming: The Technology/Energy Efficiency Hook
10d	Chia, Eng Seng	Is the Integrated Resort a Good Gamble?
10e	Kilker, Julian	Risk Education: Teaching (and Learning) about Technology and Uncertainty in Society

Session 11

	Name	Title
11a	Bechtel, Dennis	Radioactive Dispersion Devices (RDD): What are the Odds?
11b	Heidari, Ebrahim	Social Implications of Nanotechnology
11c	LeBas, Daniel	“Dangerous Things”: A Symbolic Domain for Killer Bees
11d	Li, Jia	An HSV Color Model Based Approach for License Plate Location
11e	Open	