

2000 NRAMP and Professional Development publications, reports, and presentations supervised or co-authored by Anthony E. Hechanova

Publications and Reports:

Hechanova, A.E., *Annual Report Calendar Year 2000 Nuclear Science and Technology Group*, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, December 31, 2000.

Hull, C.D., and P. Egidi, "The Origins and Distributions of NORM and TENORM," *PEP Course 1-F Notes*, 45th Health Physics Society Annual Meeting, Denver, CO, June 25, 2000.

HRC, *Final Technical Report*, Nevada Risk Assessment Management Program, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, June 2000.

Freed, D.M., and B.T. Mattingly, *GoldSim Review: Overall Assessment and Applicability to Low-level Waste Studies at the Nevada Test Site*, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, April 30, 2000.

Mattingly, B.T., *NRAMP Comments on "Assessing the Probability of Inadvertent Human Intrusion of Nevada Test Site Radioactive Waste Management Sites, Vols. I and II,"* Letter report, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, April 11, 2000.

Hechanova, A.E., "Accelerator-Driven Transmutation Technology: A High-Tech Solution to Some Nuclear Waste Problems," *IYNC 2000 Proceedings*, International Youth Nuclear Congress, Bratislava, Slovakia, April 9-14, 2000.

Hechanova, A.E., "A Risk Communication Case Study: the Nevada Risk Assessment/Management Program," *IYNC 2000 Proceedings*, International Youth Nuclear Congress, Bratislava, Slovakia, April 9-14, 2000.

Hechanova, A.E., B.T. Mattingly, and D. Gitnacht "An Analysis of the Intent of Environmental Standards in the U.S. that Apply to Waste Disposed at the Nevada Test Site," *IYNC 2000 Proceedings*, International Youth Nuclear Congress, Bratislava, Slovakia, April 9-14, 2000.

Hechanova, A.E. *NRAMP Comments on "Addendum I; Performance Assessment for the Area 5 RWMS at the NTS, Nye County, Nevada; Update of Scenarios and Waste Acceptance Criteria Through the Performance Assessment Maintenance Program, Revision 1.0,"* Letter report, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, April 2, 2000.

Hechanova, A.E., *Comments on "Proposal for Research & Development at UNLV" by Ed Hanson, PNWAB (received February 3, 2000),* Letter report, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, February 10, 2000.

Cerefice, G.S., and R.V. Ruppert, *NRAMP Comments on "Compliance Assessment Document for the Transuranic Wastes in the Greater Confinement Disposal Boreholes at the Nevada Test Site. Volume 4: Application of Assurance Requirements (D. Brosseau, December 13, 1999),"* Letter report, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, February 2, 2000.

Hechanova, A.E., *Comments on "Recommendations regarding the Yucca Mountain Nuclear Waste Repository," (Zolin Burson, October 7, 1999),* Letter report, Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas, NV, January 6, 2000.

Presentations:

Hechanova, A.E., "Nuclear Power," Humans and the Environment Class, Environmental Studies Department, Invited Speaker, University of Nevada, Las Vegas, NV, February 28, 2000 and October 11, 2000. [PowerPoint presentation and class notes]

Hechanova, A.E., and G.S. Cerefice, "Doses from Radioactive Waste Trucks," handout and poster presentation, Pahrump Nuclear Waste Advisory Board booth, Pahrump Harvest Festival, September 15-17, 2000.

Hull, C.D., and A.E. Hechanova, "Development of a Probe for *In situ* Analyses of Tritium in Well Waters," abstract and poster presentation, Environmental Technologies Open House, U.S. Department of Energy, Nevada Operations Office, Las Vegas, NV, August 2, 2000.

Hechanova, A.E., and P. Morris, "Development of an Innovative Concept for Tritium Monitoring," abstract and poster presentation, Environmental Technologies Open House, U.S. Department of Energy, Nevada Operations Office, Las Vegas, NV, August 2, 2000.

Hechanova, A.E., "Instruments to Detect Radioactive Contamination: Engineering Solutions to Real Problems," Introductory Engineering Class, Invited Lecture, University of Nevada, Las Vegas, NV, February 8, 2000.

Davis, M., "Dose Calculations from the Transportation of Radioactive Waste," Health Physics Seminar, Invited Speaker, University of Nevada, Las Vegas, NV, February 4, 2000.

Hechanova, A.E., "Dose Calculations from the Transportation of Radioactive Waste," Pahrump Nuclear Waste Advisory Board, Invited Speaker, Pahrump, NV, February 3, 2000.

Cerefice, G.S., "Plutonium Oxide Stability: A Response to Current Media Attention," Health Physics Seminar, Invited Speaker, University of Nevada, Las Vegas, NV, January 28, 2000.

Hechanova, A.E., M. Davis, B. Krupa, C. Sully, and L. Wilson, "Evaluating Environmental Risks at the Nevada Test Site: Avian Dose Reconstruction Project Phase I," abstract and poster presentation, Nevada Science and Technology Symposium, Las Vegas, NV, January 13-14, 2000.

Hull, C.D., and A.E. Hechanova, "Development of a Probe for *In situ* Analyses of Tritium in Well Waters," abstract and poster presentation, Nevada Science and Technology Symposium, Las Vegas, NV, January 13-14, 2000.

Meetings

Bechtel Nevada, Remote Sensing Laboratory Tour and Meeting, October 26, 2000. UNLV/HRC: Anthony Hechanova

AAA UPP Meetings: see separate document.

Milestones:

Nov. 1, Hechanova officially appointed UNLV Liaison

Nov. 8-9, Senior Science adviser Tom Ward visits UNLV

Nov. 15, AAA UPP meeting in Washington DC

Dec. 8, Tom Ward visits UNLV

Dec. 12, 2000, UNLV AAA UPP proposal submitted to DOE Albuquerque, cc'd to Tom Ward. (Hechanova is PI, Cerefice is HRC-POC)

ANS Meeting

Nov. 16, attended session on Transportation of Radioactive Material. Discussed PNWAB interest.

CAB Meetings

Nov. 1, 2000. UNLV/HRC: Gary Cerefice

College of Engineering Seminars:

October 30, 2000, "Assessment in Engineering Education," by Teri Rhoads. UNLV/HRC: Gary Cerefice and Anthony Hechanova

CSTRR, "Prototype for a photovoltaic power supply system," Corporation for Solar Technology and Renewable Resources, Las Vegas, NV, August 1, 2000. UNLV/HRC: Gary Cerefice and Anthony Hechanova.

DOE/NV-EM, LLW-GCD, "Biointrusion and Buried Waste Translocation Potential," called by Angela Colarusso, August 1, 2000. NTS Field Study Trip, August 2, 2000. UNLV/HRC: Gary Cerefice and Anthony Hechanova. Update briefing, October 4, 2000. UNLV/HRC: Gary Cerefice, Anthony Hechanova, and Will Pratt. Meeting with Neptune and Co., November 7, 2000: Mark Hooten and Jim Markwiese and Gary Cerefice, Anthony Hechanova, and Will Pratt.

DOE/NV-EM Site Technology Coordination Group meeting Sept. 2, 2000 (Hechanova and Cerefice)

GCD Technical Working Group Meetings:

April 11-12, 2000. UNLV/HRC: Gary Cerefice

January 19, 2000. UNLV/HRC: Anthony Hechanova

NSTG students and staff presented the following seminars in 2000 to the academic, professional, and general community:

Cerefice, G.S., "Plutonium Oxide Stability: A Response to Current Media Attention," Health Physics Seminar, UNLV, January 28.

Davis, M. (student), "Dose Calculations from the Transportation of Radioactive Waste," Health Physics Seminar, UNLV, February 4.

Hechanova, A.E., "Instruments to Detect Radioactive Contamination: Engineering Solutions to Real Problems," Introductory Engineering Class, UNLV, February 8, 2000.

Hechanova, A.E., "Nuclear Power," Humans and the Environment Class, Environmental Studies Department, UNLV, February 28, 2000 and October 11, 2000.

Hull, C.D., "*In Situ* Tritium Probe Research Update," Health Physics Seminar, UNLV, February 18.

Sully, C. (student), "Surface Soil Contamination of the NTS," Health Physics Seminar, UNLV, March 10.

Hull, C.D., "Special Seminar on Radiation Detection Equipment," Health Physics Seminar, UNLV, March 17.

Krupa, B. (student), "Gas Flow Proportional α - β Counter," Health Physics Seminar, UNLV, March 24.

Ruppert, R.V. (student), "Quality Assurance/Quality Control," Health Physics Seminar, UNLV, March 31.

Kuchar, R. (student), "Medical Health Physics," Health Physics Seminar, UNLV, April 7.

Hechanova, A.E., "Radiological Risk Assessment Methodology," Health Physics Seminar, UNLV, April 14.

Wilson, L. (student), "Photodynamic Therapy," Health Physics Seminar, UNLV, April 28.

Hull, C.D., "The Origins and Distributions of NORM and TENORM," Professional Enrichment Program Course, Health Physics Society Annual Meeting, Denver, CO, June 25, 2000.

Hechanova, A.E., "How to Give a Good Seminar," Health Physics Seminar, UNLV, September 1.

Lauckner, K., "Radiological Risk Communication," Health Physics Seminar, UNLV, September 8.

Gitnacht, D. (student), "Alpha Spectroscopy System," Health Physics Seminar, UNLV, October 20.

James, I. (student), "Irradiation Technology," Health Physics Seminar, UNLV, November 17.

Crossan, C. (student), "UNSCEAR2000 report," Health Physics Seminar, UNLV, December 1.

Health Physics Society, Lake Mead Chapter Meetings:

October 12, 2000. UNLV/HRC: Anthony Hechanova
IYNC

Planning Meeting, November 15, 2000, Washington, DC.

Nevada Science and Engineering Colloquium, "Accelerator-Driven Transmutation Technology," University of Nevada, Las Vegas, NV, May 8, 2000. A.E. Hechanova, Colloquium Technical Program Coordinator.

Nevada Sustainable Energy Council
(Hechanova is a member)

NRC, “Public Workshop on Spent Fuel Project Office Package Performance Study,” invited by NRC, requested by S. Devlin, Tropicana Hotel, Las Vegas, NV, August 15, 2000.

NTS Historical Foundation Meetings:

October 24, 2000. UNLV/HRC: Anthony Hechanova

Nuclear Science and Engineering at UNLV Meetings:

October 12, 2000. Deans Sack and Starkweather, Rudin, Culbreth, Cerefice, and Hechanova. Hechanova tasked to write Capabilities Statement.

November 2, 2000. NSE Activities report submitted to Dean Sack.

Pahrump Nuclear Waste Advisory Board Meetings:

August 3, 2000 (Hechanova)

September 7, 2000 (Hechanova)

October 5, 2000 (Hechanova)

November 2, 2000 (Hechanova)

December 7, 2000 (Hechanova)

Harvest Festival Workshop: July 27, 2000 (Hechanova, Crossan, Ruppert, and Cerefice) (Hechanova is the Consultant Emeritus from UNLV on the Board)

Radiation Safety Advisory Committee Meetings:

October 18, 2000. UNLV/HRC: Hechanova

(Hechanova is a member of the RSAC)

December 18, 2000. Hechanova and Cerefice provide RSO comments on three user applications.

October 5, 2000 Tritium Probe Update Meeting with Carter Hull (UNLV/HRC) and Robert Goldstein (Technical Associates) at HRC. In attendance: Gary Cerefice, Shawn Crawford, Anthony Hechanova, Bruce Hurley, and Ralph Smiecinski.

Yucca Mountain Education Project Meetings:

September 5, 2000 (first meeting). UNLV/HRC: Hechanova and Lauckner

October 9, 2000. UNLV/HRC: Hechanova

October 18, 2000 (Lecture Series Task Force). UNLV/HRC: Cerefice, Hechanova, and Lauckner

November 20, 2000. UNLV/HRC: Cerefice and Hechanova (Hechanova and Lauckner are members of the YMEP)