

2001 NSTG publications, reports, and presentations supervised or co-authored by Anthony E. Hechanova

Publications, Presentations, and Reports:

Hechanova, A.E., “The University of Nevada, Las Vegas Advanced Accelerator Applications University Participation Program,” oral presentation, Institute of Physics and Power Engineering, Obninsk, Russia, December 13, 2001.

Hechanova, A.E., “The University of Nevada, Las Vegas Advanced Accelerator Applications University Participation Program,” oral presentation, Karlsruhe Lead Laboratory, Karlsruhe, Germany, December 4, 2001.

Crawford, D., K. Minato, K. Chidester, J. Wallenius, S. Pillon, D. Haas, C.-K. Kim, C. Degueldre, L. Zaboudko, T. Abrams, A.E. Hechanova, Final Panel Discussion, Argonne National Laboratory Transmuter Fuel Development Workshop, Idaho Falls, ID, November 21, 2001.

Ward, T., A. Rimski-Korsakov, M. Todosow, G. Greene, M. Divadeenam, C.L. Snead, Jr., A. Hanson, E. Pitcher, D. Beller, C. Hull, W. Culbreth, A. Hechanova, and G. Cerefice, “Note on the Benchmark and Validation of the LAHET Code System,” *Proceedings of the Accelerator Applications/Accelerator Driven Transmutation Technology and Applications '01 Embedded Topical Meeting*, Reno, NV, November 11-15, 2001.

Hechanova, A.E., “Nuclear Issues in Southern Nevada,” invited speaker, Lions International, Las Vegas, NV, November 1, 2001.

Hechanova, A.E., “Reprocessing and Transmutation,” invited lecture, Environmental Studies class, University of Nevada, Las Vegas, NV, October 25, 2001.

Hechanova, A.E., G.S. Cerefice, K. Lauckner, C. Crossan, D. Gitnacht, C. Gustafson, I. James, and J. Knoten, six posters and two demonstrations were displayed providing information on alternative energy sources (Biodiesel, Biomass, Geothermal, Hydroelectric, Solar and Wind), six additional posters and a radiation detection demonstration and three-dimensional Periodic Table with radioisotopes were displayed on the “nuclear” side of the booth. These posters included: (1) Radioactivity and Groundwater Flow at the Nevada Test Site, (2) Basic Facts about Radiation, (3) How a Geiger Counter Works, (4) Transmutation of Radioactive Waste, (5) Transportation Risks from Nuclear Waste, and (6) Mission Statement and Biographies of the PNWEAB Members, Pahrump Nuclear Waste Advisory Board booth, Pahrump Harvest Festival, October 5-7, 2001.

Hechanova, A.E. “UNLV AAA University Participation Program,” oral presentation, Quarterly Technical Review Meeting, DOE-NE Advanced Accelerator Applications Program, Argonne, IL, September 6, 2001.

- Hechanova, A.E. "The Harry Reid Center for Environmental Studies, the UNLV AAA University Participation Program, and Proposed International Collaboration," invited presentation, Amarillo National Research Center, Amarillo, TX, August 6, 2001.
- Beller, D.E. "Comparisons Of Three Nuclear Fuel Scenarios: Existing LWRs, Existing LWRs plus MOX-fueled LWRs, and Existing LWRs plus ATW Plants," LA-UR-01-4853, Harry Reid Center for Environmental Studies, August 24, 2001.
- Hechanova, A.E. "UNLV AAA University Participation Program," invited presentation, Nuclear Power Plant Department, Institute of Physics and Power Engineering, Obninsk, Russia, July 12, 2001.
- Hechanova, A.E. "UNLV AAA University Participation Program," Power Point presentation, Special DOE-NE Workshop, University of Nevada, Las Vegas, NV, June 29, 2001.
- Hechanova, A.E., "Nuclear Power," invited lecture, Humans and the Environment class, Environmental Studies Department, University of Nevada, Las Vegas, NV, June 26, 2001.
- Crossan, C., D. Gitnacht, C. Gustafson, I. James, and J. Knoten, "A Case Study in Radiation Risk Communication," abstract and poster presentation, *Proceedings of the Arizona-Nevada Academy of Science*, 45th Annual Meeting, University of Nevada, Las Vegas, NV, April 14, 2001.
- Davis, M., A.E. Hechanova, and G.S. Cerefice, "Doses from the Transportation of Radioactive Waste," abstract and oral presentation, *Proceedings of the Arizona-Nevada Academy of Science*, 45th Annual Meeting, University of Nevada, Las Vegas, NV, April 14, 2001.
- Gitnacht, D., "Inconsistencies in Environmental Standards Applied to Transuranic Waste Disposal at the Nevada Test Site." Abstract and oral presentation, American Nuclear Society/Health Physics Society Student Conference, College Station, TX, March 29-April 1, 2001. Abstract and poster presentation, *Proceedings of the Arizona-Nevada Academy of Science*, 45th Annual Meeting, University of Nevada, Las Vegas, NV, April 14, 2001.
- Hull, C.D., and A.E. Hechanova, "*In Situ* Tritium Probe for Groundwater Monitoring," abstract and poster presentation, *Proceedings of the Arizona-Nevada Academy of Science*, 45th Annual Meeting, University of Nevada, Las Vegas, NV, April 14, 2001.
- Hechanova, A.E., "An Alternate Energy Concept: Accelerator-Driven Transmutation Technology," Special Seminar for the League of Women Voters and DOE/NV, U.S. Department of Energy Complex, Las Vegas, NV, March 13, 2001. [PowerPoint presentation]
- Cerefice, G.S. "Nuclear Waste Management Strategies," Humanities Discussion Group, Las Vegas Senior Center, February 22, 2001. UNLV Yucca Mountain Education Project, Town Hall Meeting, University of Nevada, Las Vegas, February 23, 2001. Invited Lecture, UNLV Chemistry Graduate class, March 8, 2001.

Hechanova, A.E., "Transmutation: A High-Tech Solution to High-Level Radioactive Waste Management," Requested Seminar for the Pahrump Nuclear Waste Advisory Board, Pahrump Town Board, Pahrump, NV, March 1, 2001. [PowerPoint presentation]

Pike, T., "Insights, Lessons Learned, Recommendations of the Benefits and Rewards of Recycling for the Community," Requested Seminar for the Pahrump Nuclear Waste Advisory Board, Pahrump Town Board, Pahrump, NV, March 1, 2001.

Meetings

Bechtel Nevada, DOE, UNLV, Partnering for the Future. March 5, 2001. 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

March 7, 2001. UNLV/HRC: Gary Cerefice

DOE/NV-EM, LLW-GCD, Meeting with Angela Colarusso and Bruce Crowe to discuss GCD Part B compliance, Jan. 23, 2001. UNLV/HRC: Gary Cerefice and Anthony Hechanova.

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:

January 4, 2001 (Lauckner)

February 1, 2001 (Hechanova)

March 1, 2001 (Hechanova)

April 3, 2001 (Hechanova)

(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)