

Mary Rose Deak

Laboratory analyst and environmental monitor with the following skills:

- Ottec™ and Canberra™ Gamma Spectrometers: HPGe Detector; Sample analysis, QC installed Ortec Detector
- Tennelec™ S5XLB Alpha Beta Gas Flow Proportional Counter operation/QC
- Field TLD processing, QC, Panasonic UD-706™ TLD reader operation/ QC
- Beckman Coulter™ LS 6500 Liquid Scintillation Counter; analysis, QC
- Alpha/Beta Drawer counting systems
- Ion Exchange; Eichrom™ columns TRU, UTEVA, and TEVA; for uranium, thorium, plutonium, americium, neptunium; electroplating
- Air filter activity quantitation. Air pump maintenance and calibration (Hi-Q). Environmental and worksite swipe counting
- Orion™ Conductivity Meter Tritium water activity quantification using KMnO₄/ NaOH method /distillation with Liebig condenser .
- Prepare standards and reagents
- Sample collection and routes
- Survey meters; Ludlum™ , Technical Associates™, Eberline™, CDV 718™
- Pallet Jacks, use of small power tools

Computer Skills

Ortec GammaVision™, Canberra Genie Procount ESP™, Microsoft™ Excel, create spreadsheets, formulas and charts, Word™, Outlook™. TRAX™ and LIMS .Gamma Spectrometer gain adjustment for detector, Liquid Scintillation quench curves. Eclipse™ Alpha - Beta software. CPAP USDA program; upload grant/loan documents, financial analysis, contacts. Import data TLD parameter dump to ASCII file and convert to Word for TLD reader. Calculate TLD radiation.

Employment History

ARS Aleut International Chemist 2 6/2014 – 10/2014 FUSRAP Radiochemistry site remediation work, for Army Corps of Engineers

Grant Technician/ Warehouse Worker/Administrative Assistant – USDA RD SCSEP Community Action Program/10 Ferry Street Suite 218 Concord, NH 9/2009 - 11/2013
Labor Ready - Warehouse and Laborer 10/2010 - 10/2011 Lift up to one ton with pallet jack.

Laboratory Scientist III Radiochemistry Lab – Public Health Laboratory, Department of Health and Human Services/ State of New Hampshire, Sample collection and radiochemical analysis Concord, NH 8/2005-10/2007

Laboratory Scientist II Organic Chemistry Lab – Department of Environmental Services/ State of New Hampshire, Concord, NH 6/2004-8/2005

Laboratory Scientist II Microbiology Lab – Department of Environmental Services/ State of New Hampshire, Concord, Public Drinking water microbiology, swim beaches and pool. NH 12/1999 – 6/2004

Research Technologist - Massachusetts General Hospital Boston, Ma 5/1983 – 10/1989, 9/1990-5/1992 Laser research and cancer drug targeting Wellman Labs, Neurobiology

Enzyme kinetics of ALS mitochondria studies. Carbohydrate Research Lab Cancer radiochemical and glycoprotein carbohydrate studies.

Education/Training

Advanced Radiation Safety Technician Certificate Series - Lakeshore Technical College Nuclear Technology Program Cleveland, WI GPA 4.0 2015

Bachelor's Degree – Webster College St. Louis, MO Biology/Art GPA 3.24 Departmental Honors in Science

Math Courses - New Hampshire Technical Institute – Concord, NH

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Publication List

Immunologic Targeting of Cancer Cells

T. Hasan, T. Anderson, M.R. Deak, R. Granstein, V.R. Zurawski, T. Flotte

Proceedings, Volume 1065, Photodynamic Therapy: Mechanisms, (1989)

<https://doi.org/10.1117/12.9780007>

Event: SPIE OE/LASE '89, 1989 Los Angeles, CA. United States

The Systemic Administration of Gamma Interferon Inhibits Collagen Synthesis and Acute Inflammation in a Murine Skin Wounding Model

Richard Granstein, Mary Rose Deak, Edward P. Amento

Journal of Investigative Dermatology July 1989

Evidence for the Presence of an N-Acetyl Lactosamine -Type Chain in Epiglycanin

John F. Codington, Mary Rose Deak, David Frim, Roger W. Jeanloz

Archives of Biochemistry and Biophysics

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