



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

LABORATORY BRANCH

10 Clinton Street

HARTFORD, CT 06106

Br. 2

May 19, 2011

U.S. Nuclear Regulatory Commission, Region 1
Attn: Licensing Assistance Team
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Licensing Assistance Team:

03037847

This is a request to amend the State of Connecticut Department of Public Health (DPH) Laboratory NRC license #06-27895-03 to change the Radiation Safety Officer (RSO) of record.

Jon G. Bergeson, the current RSO, will retire effective June 1, 2011. The DPH Laboratory appointed Stewart K. Chute, Ph. D. as the new RSO effective on that date.

Dr. Chute's has experience and training that qualify him to implement and manage the radiation Safety Program for the DPH Laboratory. In particular, Dr. Chute's experience includes 10 years working in a radiochemistry laboratory and serving as an advisor to DPH staff and local government officials relating to environmental health and radiological emergencies. Enclosed is a CV for Dr. Chute.

Thank you for your consideration. If you have any questions about this amendment request, please contact Jon Bergeson at 860-509-7608 or Jack Bennett, Environmental Chemistry Section Chief, at 860-509-8530.

Sincerely,

John Fontana, PhD (HCLD), ABB
Laboratory Director

Jon G. Bergeson, MBA, MEP
Radiation Safety Officer

Phone: (860) 509-8500

Fax: (860) 509-8698

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NMSS/RGN1 MATERIALS-002

Stewart K. Chute, PhD

Stewart.Chute@po.state.ct.us

Education

Ph.D. 1990 **Pharmaceutical Science**, University of Connecticut, School of Pharmacy, Storrs Connecticut

Subject of thesis research:

Dopaminergic influences on behavior: How biochemical changes in neurotransmitter systems, induced by repeated administration of an amphetamine-like compound, can correlate with the development of a sensitized behavioral response.

Honors:

1988, Richardson-Vicks A. Francis Summa Memorial Award

1989, University of Connecticut Doctoral Dissertation Fellowship

Certificate, 2008 **Graduate study in health system planning**, Business Mastery Program, University of Connecticut School of Business

B.A. 1980 **Zoology**, Ohio Wesleyan University, Delaware, OH

Employment

December 1997 - Present. **Toxicologist**, State of Connecticut, Department of Public Health, Division of Environmental Epidemiology and Occupational Health Hartford CT.

Involve / advise DPH staff and local government officials on issues relating to environmental health and planning for chemical and radiological emergencies, presenting principles of internal vs external dosimetry, and strategies for protection. Participated in radiological planning and preparedness exercises with various agencies, including; The Center for Disease Control, The National Center for Disaster Preparedness, The State Department of Emergency Management, and the State Radiological Response Group. Developed health-based standards for drinking water and other media. Addressed concerns of the general public on issues related to exposure and potential health effects of chemical or radiologic exposure. Served as the Department's representative at town meetings and at the State Emergency Operations Center.

November 1996 - 1997. **Consulting Scientist**, Clark University, Marsh Institute, Worcester MA.

Collaborated on a grant project, to develop models of xenobiotic metabolism and pharmacokinetics for risk assessment purposes.

January 1993 - June 1995. **Research Investigator**, Bristol-Myers Squibb, Drug Safety Evaluation, Department of Experimental Pathology, Syracuse, New York, 13221
Responsible for designing, and reporting studies on the toxic effects of drug candidates using primary cultures, cell lines, *ex vivo* nerve-muscle preparations, ELISA, and precision-cut liver slices. Applied techniques of digital image analysis, laser cytometry, and video densitometry to measure changes in cell physiology/viability and transport systems. Developed protocols to guide toxicity testing in cultured cells and supervised their use by Laboratory Assistants. Promoted from Post-Doctoral Fellow (December 1992).

December 1990 - December 1992. **Post Doctoral Research Fellow**, Bristol-Myers Squibb, Cellular and Biochemical Toxicology, Syracuse, New York, 13221
Started a neurotoxicology laboratory by designing experimental protocols for *in vivo* or *in vitro* studies and developing novel methods for *in vitro* toxicity testing. Applied novel techniques to study the mechanism(s) of drug-induced peripheral neuropathy including tests of peripheral nerve conduction velocity. Published research in peer-reviewed journals.

1982 - 1984. **Research Assistant**, University of Connecticut, School of Pharmacy, Department of Pharmacology and Toxicology, Storrs, Connecticut.
Neuropharmacological studies of the biochemical and behavioral effects of drug treatment *in vivo*: Synaptic mechanisms of nerve function and regulation in dopaminergic, cholinergic, and serotonergic neurons. Developed bioassays for drug receptor interaction using radiolabeled drugs. Continued this work during graduate school.

1981 - 1982. **Research Assistant**, Yale University School of Medicine, Department of Obstetrics and Gynecology, New Haven, Connecticut.
Medicinal chemistry and steroid biochemistry. Synthesis and purification of iodinated and radio-iodinated steroids for possible use as an *in-vivo* diagnostic tool. Performed drug distribution and half-life studies in lab animals and humans using radiolabeled tracers.

Professional Affiliations

Society of Toxicology, Reston VA

1988-2005

Teaching experience

1993-1996, **Adjunct Faculty**, State University of New York, Health Science Center, College of Medicine, Syracuse, New York.

1984-1986, 1989-1990, **Teaching Assistant; University of Connecticut**, School of Pharmacy, Department of Pharmacology and Toxicology, Storrs, Connecticut.

Assembled materials and lectured on basic techniques of Pharmacology and Toxicology. These included: Toxic chemicals and antidotal therapy, drug and chemical effects on specific target organs and effects of drugs and chemicals on humans and laboratory animals. Lectured to nursing students on parasitology and anti-parasitic agents.

Technical publications and presentations

'Basics of Outbreak Investigation & Risk Communication'. Presented at the EPA Region 1 Pesticide Applicators Meeting, Enfield CT, February 2, 2010

'Basics of Outbreak Investigation & Risk Communication'. Presented to the CT Section of the American Water Works Association: Protecting Public Health, Rocky Hill CT, April 16, 2009

'Naturally Occurring Contaminants in Drinking Water'. Presented at the Ground Water Education Workshop, American Ground Water Trust, March 27, 2007

'Basic Principles of Effective Risk Communication for FIFRA Inspectors' Presented at the EPA Region 1 Pesticide Applicators Meeting, Portland ME, January 27, 2006

'A Comparison Value for 1,4-Dioxane in Drinking Water' Presented at the New England Private Drinking Well Symposium, Portsmouth NH, November 14, 2005

'Arsenic Concentrations in Bedrock Wells of Northeast Connecticut.' Presented at the Federal-State Toxicology and Risk Assessment Committee (FSTRAC) meeting, Albany NY, October 23-25, 2002

'Chemical Contaminants of Drinking Water.' Presented at the Ground Water Education Workshop, American Ground Water Trust, April 17, 2001

'Modeling Axonopathic and Neuronopathic Effects *In Vitro*'. Presented at 'IIVTG Symposium on in vitro markers of toxicity: techniques for evaluating the cell's response to toxic agents'. Cornell University, Ithaca NY, May 26, 1995

'Neurotoxicity Evaluation *In Vitro*: Recent Developments and Future Prospects'. Presented at the Institute For Comparative And Environmental Toxicology, Cornell University, Ithaca NY, March 17, 1995

'A Novel In Vitro Method for Studying the Effects of Neurotoxic Agents on Axonal Transport'. Presented at the Satellite Symposium On In Vitro Neurotoxicology, International Union of Pharmacology Congress, Val Morin Quebec, July 29-August 1, 1994

'A Novel In Vitro Method for Studying the Effects of Neurotoxic Agents on Axonal Transport'. Presented at the International Business Communications Symposium on In Vitro Toxicology, Bethesda Maryland, April 28-29, 1994

'A Method for Quantifying Bulk Transport of Mitochondria in Cultured Neurites' and 'Dose- and Time-Dependent Effects of Taxol on Dorsal Root Ganglion Cells in Vitro'. Presented at the 33rd

Annual Meeting of the Society of Toxicology, during the Poster Discussion Session on Peripheral Neuropathies and the Cytoskeleton, Dallas Texas, March 13-17, 1994

'Axonal Transport as an In Vitro Indicator of Neurotoxicity'. Presented at the Fourth Annual Bristol-Myers Squibb Interdivisional Symposium on Alternatives to the Use of Animals in Research and Development, Lawrenceville New Jersey, November 17-18 1993

'An In Vitro Method For Investigating Neurotoxicity and Microtubule-Based Transport'. Presented at the Annual Meeting of the Industrial In Vitro Toxicology Group, Bethesda Maryland, December 1992

'Practical Application of In Vitro Tests to Assessing the Mechanism of Nucleoside Analog Related Peripheral Neuropathy'. Presented at the Third Annual Bristol-Myers Squibb Interdivisional Symposium on Alternatives to the Use of Animals in Research and Development, Lawrenceville New Jersey April 9-10 1992

Brown, C.J. and S.K. Chute. Arsenic Concentrations in Bedrock Wells in Colchester, East Hampton, and Woodstock, Connecticut. U.S. Geological Survey Water-Resources Investigations Report 02-4135, 2002

Ginsberg, G.L., D.B. Hattis, S.K. Chute, D.J. Pelletier, W.E. Pepekko. Comparison of Cancer Potency Across Oral Dose Routes: Case Studies With Chloroform (CFM) Vinyl Chloride (VC) and Epichlorohydrin (EPI). The Toxicologist 36: 170 (abstract), 1997

Chute, S.K., G.L. Ginsberg, W.B. Pepekko. Use of Pharmacokinetic Modeling to Relate Hydrazine Lung Cancer Potency Across Gavage and Drinking Water Bioassays. The Toxicologist 54: 881

Chute, S., Flint O., and Durham S.: An Analysis of the Steady-State Dynamics of Organelle Motion In Cultured Midbrain Cells: Putative Indicator of Neurotoxic Effect. Cell Vision 1 (3): 252-259, 1994

Chute, S., Flint O., and Durham S.: Steady-State Dynamics of Mitochondrial Movement as a Putative Indicator of Neurotoxicity in Cultured Neurites. Clinical and Experimental Pharmacology and Physiology. 22: (5): 360, 1995

Gianutsos, G. and Chute, S.: Pharmacological changes induced by repeated phenylethylamine. Pharmacology Biochemistry and Behavior 25: 129-134, 1986

Gianutsos, G. Chute, S. and Dunn, J.P.: Pharmacological changes in dopaminergic systems induced by long-term administration of amantadine. European Journal of Pharmacology 110: 357-361, 1985

This is to acknowledge the receipt of your letter application dated

5/19/2011, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment (06-27895-03)
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 575194.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.