



**KETTERING MEDICAL CENTER**

3535 Southern Boulevard Kettering, Ohio 45429-1298 513 298-4331

October 19, 1984

U.S. Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

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U.S. N.R.C.  
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Dear Sir:

This is to inform you that we would like to delete Dr Theo Agard Ph.D as our Radiation Safety Officer, and replace him with Patricia Hefron - Cartwright. This is to be effective immediately. Mrs. Cartwright has been approved by the Radiation Safety Committee and her Curriculum Vitae is enclosed for your records.

Sincerely,

*Dennis Howell*

Dennis Howell, RT  
Secretary, Radiation Safety  
Committee

Kettering Medical Center  
3535 Southern Boulevard  
Kettering, Ohio 45429

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CURRICULUM VITAE  
OF  
PATRICIA HEFFRON-CARTWRIGHT

EDUCATION

MSPH Degree in Environmental Sciences and Engineering (Radiation Hygiene) August, 1977, University of North Carolina at Chapel Hill.

Graduate study in Medical Physics at the University of Chicago, 1975-1976.

BS Degree with Honors in Physics, May, 1975, Bradley University.

PAPERS

Master's Technical Report: "Teletherapy and Brachytherapy Dosimetry to Validate Treatment Planning Programs", June, 1977.

Saylor, William, Patricia Heffron, Thomas Ames, Treatment Planning Validation Project (Vol. 1), Chapel Hill, North Carolina, June, 1977.

EXPERIENCE

Kettering Medical Center, Kettering, Ohio, Department of Radiation Therapy. Assistant Medical Physicist. February, 1982 -- Present.

Calibrated 4 MeV X-rays from a linear accelerator and orthovoltage machine.

• Did Quality Assurance on all radiotherapy equipment.

Did Treatment Planning for external radiation with a computer and by manual methods.

Performed Dose Calculations on all patients. In special cases performed TLD measurements.

Did Brachytherapy Treatment Planning, Leak Testing, Dosimetry, and Surveying for Ir-192, Au-198, I-125, and Cs-137 sources.

Fabricated Tissue Compensators, Shielding Blocks, and Immobilization Casts.

Participated with the Therapist and Technologist in Simulations for patient planning.

Highland Hospital, Rochester, New York, Department of Radiation Oncology. Medical Physicist. September, 1977--August, 1981.

Calibrated high energy photons and electrons from a 12 MeV linear accelerator. Calibrated Co-60, Orthovoltage, Superficial, and Philips Contact x-ray machines.

Did Treatment Planning for external radiation via computer and manual methods.

Did Brachytherapy Treatment Planning, Leak Testing, and Dosimetry for Ir-192, Au-198, Rn-222, Ra-226, and Cs-137 sources.

Monitored administration of P-32 doses and therapeutic doses of I-131.

Fabricated Molds, Shielding Blocks, and Wax Compensators.

Participated with the Therapist and Technologist in Simulating patients during planning.

Responsible for the Personnel Monitoring for all radiation workers in the hospital via film badges.

As Assistant Radiation Safety Officer, held lectures for the staff, did all in-house leak testing, survey meter calibration, and other consultations.

Acted as Physics Consultant for the Departments of Diagnostic Radiology and Nuclear Medicine, and member of the Radioactive Materials Committee.

Took Clinical Photos within the Department of Radiation Oncology.

Helped set up a facility for treating whole-body electron patients.

Participated in the clinical education of Radiation Therapy Technology students from Roswell Park.

Monroe Radiology, Rochester, New York. Part-time Physics Consultant. September, 1977--August, 1981.

Monroe Community College, Rochester, New York. Adjunct Professor for Radiological Technology. January, 1978--August, 1981.

Taught Radiological Technology students the principles of Radiation Therapy, Radiation Protection, and Radiation Biology.

University of North Carolina Memorial Hospital, Radiation Therapy Research Assistant. August, 1976--August, 1977.

Validated computer algorithms for various treatment planning programs with in-phantom TLDs for teletherapy and brachytherapy.

University of North Carolina, Department of Environmental Sciences and Engineering. Teaching Assistant. August, 1976--August, 1977.

Helped teach a graduate level radiation instrumentation course.

Was responsible for personnel monitoring.

Participated in diagnostic X-ray machine calibration and quality assurance with the Wisconsin test tools.

Lutheran Hospital, Moline, Illinois, Department of Radiation Therapy. Assistant Medical Physicist. May, 1975--September, 1975 and June, 1976--August, 1976.

Did treatment planning for brachytherapy and teletherapy fields.

Calibrated teletherapy and superficial machines.

Did leak tests on the Co-60 machine and other sealed sources.

Helped develop a computer registry system and generate survival statistics.

Calibrated diagnostic x-ray machines and did quality control.

University of Chicago, Chicago, Illinois. Department of Radiation Therapy. Medical Physics Trainee. September, 1975--June, 1976.

Helped conduct a radiobiological study of Chinese hamster ovary cells to generate survival curves for neutron radiation as compared with photon radiation.

Methodist Medical Center, Peoria, Illinois. Department of Radiation Therapy. Assistant Medical Physicist. December, 1975--January, 1976.

Calibrated Lithium Borate discs and rods for teletherapy dosimetry.

#### PROFESSIONAL SOCIETIES

American Association of Physicists in Medicine

Sigma Pi Sigma (Physics Honorary)

CONTROL NO. 77671

#### CURRENT ADDRESS

Patricia Heffron-Cartwright  
8820 Shadycreek Dr.  
Dayton, OH 45459  
(513)434-8761

Kettering Medical Center  
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(513)296-7246