

Hackensack Medical Center

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U.S. NUCLEAR REG.
COMMISSION
MAIL SECTION

January 25, 1982



Mr. Francis A. St. Mary
Material Licensing Branch
Division of Fuel Cycle and Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. St. Mary:

As you requested through Mr. John Ferguson, I am enclosing my curriculum vitae, a filled-in Form 313M Supplement A and a copy of my Board Certificate from the American Board of Radiology. I replaced Dr. Stephen Nagy as the Radiation Safety Officer at Hackensack Medical Center last September.

Please let me know if you need further information about myself. I can be reached at (201) 441-2209.

Sincerely,

Sou-Tung Chiu Tsao

Sou-Tung Chiu-Tsao, Ph.D.
Senior Physicist
Radiation Safety Officer

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INSPECTION AND ENFORCEMENT

STCT/nb
cc: Mr. J. Ferguson
enc.

(8-78)

TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Sou-Tung Chiu-Tsao, Radiation Safety Officer	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE n/a
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3. CERTIFICATION

SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
American Board of Radiology (see copy attached)	Therapeutic Radiological Physics	June 1980

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	New York Univ. Med. Ctr. 1976-1978 Downstate Med.Ctr. 1978-1981	250	3000
b. RADIATION PROTECTION	Same as above	100	1000
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	Same as above	250	3000
d. RADIATION BIOLOGY	Same as above	200	50
e. RADIOPHARMACEUTICAL CHEMISTRY	Same as above	40	50

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
137-Cs 99m-Tc 192-Ir 222-Rn 125-I 226-Ra 60-Co 32-P 90-Sr	6000 Ci for 60-Co	New York Univ. Med. Center Downstate Medical Center Hackensack Medical Center	2 ¹ / ₂ yr. (1976-1978) 3 yr. (1978-1981) 1/2 yr. (1981-pres)	Teletherapy and Brachy- therapy, Nuclear Medi- cine

CURRICULUM VITAE

Sou-Tung Chiu-Tsao
Radiation Safety Officer
Hackensack Medical Center
Hospital Place
Hackensack, New Jersey 07601

(201) 441-2209 Work

(201) 464-8408 Home

S.S.# 134-42-4855

Citizen: Republic of China
Permanent Immigration Visa

EDUCATION:

Physics State University of New York at Stony Brook Stony Brook, New York	Ph.D. 1974
Physics State University of New York at Stony Brook Stony Brook, New York	M.A. 1968
Physics National Taiwan University Taipei, Taiwan, China	B.S. 1967

PROFESSIONAL EXPERIENCE:

Senior Physicist/Radiation Safety Officer Hackensack Medical Center Hackensack, New Jersey	9/81 - Present
Physicist/Clinical Assistant Professor Department of Radiation Oncology Downstate Medical Center Brooklyn, New York	11/78 - 9/81
Physicist/Assistant Professor/ Assistant Research Scientist Division of Radiation Oncology New York University Medical Center New York, New York	5/76 - 11/78
Visitor Institute for Advanced Study Princeton, New Jersey Research in Solid State Physics	9/75 - 4/76
Adjunct Assistant Professor Mercer County Community College Trenton, New Jersey	9/75 - 1/76
Research Scientist Department of Physics New York University New York, New York	7/73 - 6/75

PROFESSIONAL CERTIFICATION:

Certified by the American Board of Radiology
in Therapeutic Radiological Physics

June 1980

PROFESSIONAL SOCIETIES:

American Association of Physicists in Medicine (AAPM)
Radiological and Medical Physics Society of New York (RAMPS)

Sou-Tung Chiu-Tsao, Ph.D.

Publications:

Chiu-Tsao, S., Lerch, I. and Barish, R.: Extended Expression for the Tissue-Maximum Ratio Data of the Varian Clinac-4 and Clinac-6, Medical Physics 4: 535, 1977.

Lerch, I., Carella, R., Chiu-Tsao, S. and Newall, J.: Assessment of the Irradiated Brain by Quantitative Computerized Tomography Scan Analysis - I: Sampling Methods and Concepts, Int. J. of Rad. Onc., Biol. & Physics, 5: 2121-2126, 1979.

Carella, R., Lerch, I., Newall, J. and Chiu-Tsao, S.: Assessment of the Irradiated Brain by Quantitative Computerized Tomography Scan Analysis - II: Application in Studies of the Necrotic and Edematous Brain, Int. J. of Rad. Onc., Biol. & Physics, 5: 2127-2133, 1979.

Chiu-Tsao, S., High, M., Parisi, V., Porteous, D.D., Porteous, K.M. and Rotman, M.: ¹²⁵I Flood Source Dosimetry for RBE determination, Medical Physics 7: 437, 1980.

Chiu-Tsao, S.: Two-Spin-Wave Resonances and the Analyticity of the t-Matrix in the Heisenberg Ferromagnet, Physical Review B4, 3098, 1971.

Chiu-Tsao, S.: Surface Spin Wave Bound States in the Heisenberg Ferromagnet, Physical Review B11, 4525, 1975.

Chiu-Tsao, S., Levy, P. and Paulson, C.: Elementary Excitations of High-Degree Pair Interactions: The Two-Spin-Deviation Spectra for a Spin-One Ferromagnet, Physical Review B12, 1819, 1975.

Chiu-Tsao, S.: Size Effect on the Far Infrared Spin Wave Resonance Absorption Spectra in the Heisenberg Antiferromagnetic Films, American Institute of Physics Proc. No. 24, 393, 1975.

Chiu-Tsao, S. and Levy, P.: Excitation Spectra for Spin-3/2 Systems with High Degree Pair Interactions, Physical Review B13, 3046, 1976.

Chiu-Tsao, S.: Two-Magnon Raman Spectra in Spin-One Ferromagnetic FCC Lattice, Physical Review B13, 3175, 1976.

The American Board of Radiology

*Organized through the cooperation of the
American College of Radiology, the American Roentgen
the American Radium Society, the Radiological Society
the Section on Radiology of the American Medical Association
and the American Society of Therapeutic Radiology
Hereby certifies that*

Sou-Tung Chiu-Tsao, Ph.D.

*Has pursued an accepted course of graduate
and clinical work, has met certain standards and qualifications
has passed the examinations conducted under the auspices of*

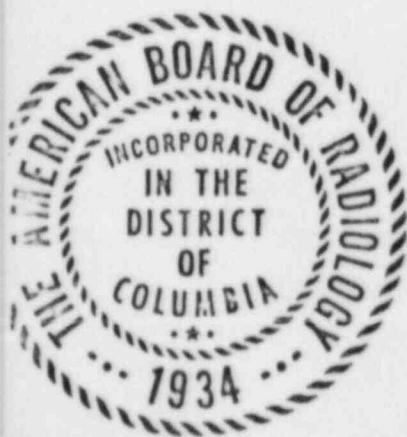
The American Board of Radiology

On this seventh day of June, 1930

*Thereby demonstrating to the satisfaction of the Board
that she is qualified to practice the specialty of
Therapeutic Radiological Physics*

E. Richard Lipp
President

C. Allen



American Board of Radiology

Organized through the cooperation of the
Society of Radiology, the American Roentgen Ray Society,
Radiation Society, the Radiological Society of North America,
Society of Radiology of the American Medical Association
and the American Society of Therapeutic Radiologists
Hereby certifies that

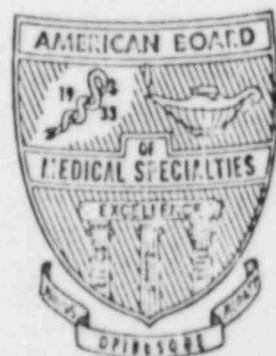
Son-Tung Chin-Tsao, Ph.D.

has pursued an accepted course of graduate study
and work, has met certain standards and qualifications and
the examinations conducted under the authority of
The American Board of Radiology

On this seventh day of June, 1980
demonstrating to the satisfaction of the Board
that she is qualified to practice the specialty of
Therapeutic Radiological Physics

Richard E. [Signature]
President

C. Allen Good
Secretary



1/21/82

TELEPHONE OR VERBAL CONVERSATION RECORD

TIME

4:10

☐ A.M.
☒ P.M.

☐ INCOMING CALL

☒ OUTGOING CALL

☐ VISIT

PERSON CALLING

St Mary

OFFICE/ADDRESS

PHONE NUMBER

EXTENSION

PERSON CALLED

John Ferguson, Assoc. Hosp. Dir.

OFFICE/ADDRESS

Hackensack Hosp.

PHONE NUMBER

EXTENSION

(201) 441-2000

CONVERSATION

SUBJECT

(CN # 08469) Renewal Request - Tong & Qualification of New RSO

SUMMARY

Mr. Ferguson will send Supplement A to form NRC-313M listing the
Tong. & qualifications of Su-Tung Chin-Tsao, new RSO.

ML10

"OFFICIAL RECORD COPY"

REFERRED TO:

ACTION REQUESTED

☐ ADVISE ME OF
ACTION TAKEN.

INITIALS

DATE

ACTION TAKEN

INITIALS

DATE