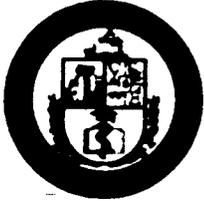


DL-042696-05



OFICINA DEL DECANO  
OFFICE OF THE DEAN

UNIVERSIDAD DE PUERTO RICO RECINTO DE CIENCIAS MEDICAS  
FACULTAD DE CIENCIAS BIOSOCIALES Y ESCUELA GRADUADA DE SALUD PUBLICA  
UNIVERSITY OF PUERTO RICO, MEDICAL SCIENCES CAMPUS  
FACULTY OF BIOSOCIAL SCIENCES AND GRADUATE SCHOOL OF PUBLIC HEALTH



April 26, 1996

Ms. Orysia Masnyk Bailey  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta St. N.W.  
Suite 2900  
Atlanta, Ga. 20323-0199

Dear Ms. Bailey:

This letter is in reference to the petition of Mr. Pedro J. Montes to be approved as teletherapy physicist for the Isaac Martínez Gonzalez Oncology Hospital in Puerto Rico.

Mr. Pedro Montes is a graduate of our Master Program in Environmental Health with a radiological health major. He took the following courses in the radiation area:

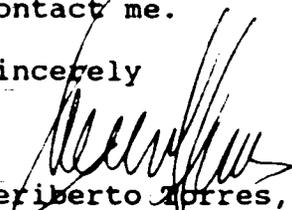
SAAM -	6544	Radiological Health	4 cred.
SAAM -	6510	Radiation Biology	4 cred.
SAAM -	6537	Environmental Health Physics	3 cred.
SAAM -	6538	Medical Radiation Physics	4 cred.
SAAM -	6615	Nuclear Instrumentation	4 cred.
SAAM -	6695	Research Project: Determination of Radiation Doses to Different Organs from diagnostic procedures using T.L. Dosimetry	6 cred.

As part of his graduate training he spent 10 weeks as a participant in the Brookhaven National Laboratory, Health Physics Training Program during the summer of 1982. During the academic year 1982 though 1984 he was involved in formal training in radiotherapy physics at the Physics Division, UPR School of Medicine. This task was performed as a research assistant granted by the University.

During the period of July 1984 though June 1985 Pedro Montes worked in radiotherapy physics both at the University Hospital, Department of Radiation Oncology and at the Institute of Radiotherapy,

Metropolitan Hospital under my direct supervision. From 1986 though 1990 he was certified by NRC as teletherapy physist for the Metropolitan Hospital. If further information is needed, please contact me.

Sincerely



Heriberto Torres, Ph.D.  
Professor and Chairman  
Environmental Health Department

st

# CONVERSATION RECORD

TIME

DATE

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

ROUTING

NAME/SYMBOL	INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

*Pedro Montes-Carriz*

ORGANIZATION (Offic. desig., bureau, etc.)

TELEPHONE NO.

SUBJECT

SUMMARY

*3/25/96*

*Asked for transcript of dinner re. termin.*

*re: ... 3/25/96*

*Transcript not available since in ...*

*... PK*

*... left ...*

*... days*

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

*[Signature]*

*3/25/96*

ACTION TAKEN

SIGNATURE

TITLE

DATE

(1-1-95 Edition)

Diagnostic radiology.  
by the American

by the American  
of Radiology:  
Specialization in  
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Committee for  
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ducation or the  
oral Training of  
thic Association  
years of clinical  
diagnostic radiology  
of an authorized

*MS Theoretical Physics  
BS Theoretical Physics  
Environmental Health - Major - Radiological and Medical Physics*

**Nuclear Regulatory Commission**

user at a medical institution that in-  
cludes:

(i) Examining individuals and review-  
ing their case histories to determine  
their suitability for teletherapy treat-  
ment, and any limitations or contra-  
indications;

(ii) Selecting the proper dose and how  
it is to be administered;

(iii) Calculating the teletherapy  
doses and collaborating with the au-  
thorized user in the review of patients'  
or human research subjects' progress  
and consideration of the need to mod-  
ify originally prescribed doses as war-  
ranted by patients' or human research  
subjects' reaction to radiation; and

(iv) Post-administration followup and  
review of case histories.

[51 FR 20561, Oct. 16, 1986, as amended at 59  
FR 61786, Dec. 2, 1994]

**§35.961 Training for teletherapy phys-  
icist.**

The licensee shall require the tele-  
therapy physicist to be an individual  
who:

(a) Is certified by the American  
Board of Radiology in:

(1) Therapeutic radiological physics;  
(2) Roentgen ray and gamma ray  
physics;

(3) X-ray and radium physics; or  
(4) Radiological physics; or

(b) Is certified by the American  
Board of Medical Physics in radiation  
oncology physics; or

(c) Holds a master's or doctor's de-  
gree in physics, biophysics, radiologi-  
cal physics, or health physics, and has  
completed one year of full time train-  
ing in therapeutic radiological physics  
and an additional year of full time  
work experience under the supervision  
of a teletherapy physicist at a medical  
institution that includes the tasks list-  
ed in §§35.59, 35.632, 35.634, and 35.641 of  
this part.

[51 FR 20561, Oct. 16, 1986, as amended at 59  
FR 61786, Dec. 2, 1994]

**§35.970 Training for experienced au-  
thorized users.**

Physicians, dentists, or podiatrists  
identified as authorized users for the  
medical, dental, or podiatric use of by-  
product material on a Commission or  
Agreement State license issued before  
April 1, 1987 who perform only those

*OK to extend license*

02-28-2002 §35.980

methods of use for which they were au-  
thorized on that date need not comply  
with the training requirements of sub-  
part J.

**§35.971 Physician training in a three  
month program.**

A physician who, before July 1, 1984,  
began a three month nuclear medicine  
training program approved by the Ac-  
creditation Council for Graduate Medi-  
cal Education and has successfully  
completed the program need not com-  
ply with the requirements of §§35.910 or  
35.920.

**§35.972 Recentness of training.**

The training and experience specified  
in this subpart must have been ob-  
tained within the 7 years preceding the  
date of application or the individual  
must have had related continuing edu-  
cation and experience since the re-  
quired training and experience was  
completed.

[59 FR 61786, Dec. 2, 1994]

**§35.980 Training for an authorized nu-  
clear pharmacist.**

The licensee shall require the author-  
ized nuclear pharmacist to be a phar-  
macist who:

(a) Has current board certification as  
a nuclear pharmacist by the Board of  
Pharmaceutical Specialties, or

(b)(1) Has completed 700 hours in a  
structured educational program con-  
sisting of both:

(i) Didactic training in the following  
areas:

(A) Radiation physics and instrumen-  
tation;

(B) Radiation protection;

(C) Mathematics pertaining to the  
use and measurement of radioactivity;

(D) Chemistry of byproduct material  
for medical use; and

(E) Radiation biology; and

(ii) Supervised experience in a nu-  
clear pharmacy involving the follow-  
ing:

(A) Shipping, receiving, and perform-  
ing related radiation surveys;

(B) Using and performing checks for  
proper operation of dose calibrators,  
survey meters, and, if appropriate, in-  
struments used to measure alpha- or  
beta-emitting radionuclides;

*Zak Martinez  
Hospital*

557 32-13471-02  
030-14696

*Marks-Garcia*

**REGIONAL TECHNICAL ASSISTANCE REQUEST FORM**

**Date:** February 26, 1996

**Mail or E-Mail to:** Donald A. Cool, (DAC) Director, Division of Industrial and Medical Nuclear Safety, NMSS, Mail Stop 8F5-TWFn, If E-mail, cc: CLE (DAC)

**From:** John P. Potter (JPP), Chief Licensing and Inspection Branch 2, Region II  
Division of Nuclear Materials Safety and Safeguards

*[Handwritten signature]*  
5/31/96

**Licensee:** I. Gonzalez Martinez Oncologic Hospital

**License No.:** 52-13471-02

- Control No. 256968
- Letter dated: February 27, 1996
- Suggested change in licensing procedure: N/A

**Problem/Issue:** Hospital Oncologico I. Gonzalez Martinez Oncologic is seeking to add Pedro Montes Garcia as the Teletherapy Physicist. His resume and qualifications are attached. Mr Montes Garcia has a Masters degree in Environmental Health which is not delineated in 35.961 as an acceptable field of study. Please review the enclosed information and advise if this individual can be named as Teletherapy Physicist.

**Recommended Action:**  Approve or  Reject

**That this individual be approved as Teletherapy Physicist.**

**Remarks:** Conversations with individual disclose that the research projects on the transcript dealt with Health Physics. We have encountered this with other Health Physics professional in Puerto Rico.

**Headquarters Reviewer:** \_\_\_\_\_

**Regional Reviewer:** Orysia Masnyk Bailey

**Inspector Phone No.:** (404) 331-2687 **FAX No.:** (404) 331-5559

**TAR Reply Requested by:** ASAP, individual currently employed by the hospital.

**Form**

**TAR-10**

g:\drss\nmis\onc.tar

## CURRICULUM VITAE

### Personal Data

Name	Pedro J. Montes García
Date of Birth	April 28, 1958
Place of Birth	Ciales, Puerto Rico
Marital Status	Married, Three Daughters

### Education

B.S. Theoretical Physics. Major in Physics and Mathematics  
University of Puerto Rico. Mayagüez Campus  
May, 1980

M.S. Environmental Health. Major in Radiological and Medical Physics  
Graduate School of Public Health - University of Puerto Rico School of **Medicine**  
San Juan, June 1984

### Special Courses and Training

"Brachytherapy : Intraprostatic Seeds Implantation Using Iodine-125 and  
Palladium-103 for Adenocarcinoma of the Prostate"  
Fort Myers, Florida February 19 & 20 1996

288683

"High Energy C-Series Clinac Technical Maintenance I"  
Varian Oncology Medical Systems  
Palo Alto, California April 4, 1994 to April 15, 1994

"Advances in Radiation Oncology Physics"  
American Association of Physicist in Medicine - Summer School  
University of Kansas  
Lawrence, Kansas July 16, 1990 to July 20, 1990

"Medical Management of Radiation Accidents"  
V.A. Hospital James A. Haley  
Tampa, Florida October 4, 1991

"Anatomy for Radiation Therapy Treatment Planning"  
University of Texas Health Science Center at San Antonio  
San Antonio, Texas January 26, 1987 to January 30, 1987

"Radiation Safety Officer's Course"  
University of Texas Health Science Center at San Antonio  
San Antonio, Texas May 21, 1984 to May 25, 1984

"External Beam Dosimetry - Principles and Calibrations"  
"External Beam, Interstitial and Intracavitary Dosimetry -  
Manual and Computer Methods of Calculation"  
"High Energy Electron and X-Ray Dosimetry" 210 Hours  
The University of Texas System Cancer Center  
M. D. Anderson Hospital and Tumor Institute  
Houston, Texas January 3, 1984 to February 4, 1984

**"Applied Health Physics" / 320 Hours**

**United States Department of Energy**

**Summer Research Fellow**

**Brookhaven National Laboratory**

**Long Island, New York June 6, 1982 to August 13, 1982**

**Experience:**

**Director of Medical Physics, Department of Radiation Therapy**

**Hospital Oncológico Isaac Gonzalez Martinez**

**San Juan, Puerto Rico**

**October 1995 - Present**

**Chief Physicist, Department of Radiation Oncology**

**North Broward Cancer Center**

**Pompano Beach, Florida**

**August 1990 to September 1995**

**Consultant Physicist, Radiation Therapy**

**Radiation Therapy Treatment Centers of Florida**

**Cape Coral, Fort Myers and Fort Lauderdale**

**Plantation, Florida**

**February 1991 to May 1995**

**Head, Department of Medical Physics**

**Radiation Oncology Center, Inc.**

**San Juan, Puerto Rico**

**July 1983 to June 1990**

286863

Instructor, Department of Radiation Oncology  
University of Puerto Rico School of Medicine  
San Juan, Puerto Rico  
July 1986 to June 1990

Dosimetrist, Department of Radiation Oncology  
University of Puerto Rico School of Medicine  
San Juan, Puerto Rico  
August 1982 to June 1983

Instructor, Department of Science and Technology  
Puerto Rico Junior College  
San Juan, Puerto Rico  
August 1984 to May 1989

Technical Collaborator, Energy Research at C. E. E. R.  
Branch of the U. S. A. Department of Energy ( D. O. E. Grant )  
San Juan, Puerto Rico  
October 1981 to May 1982

Instructor, Inter American University Natural Sciences Department  
Aguadilla, Puerto Rico  
January to August 1981

Teacher, High School Mathematics and Science  
Ernesto Valderas School  
Ciales, Puerto Rico  
August 1980 to May 1981

### Professional Organizations

"American Association of Physicist in Medicine"

Full Member

"American Association of Health Physics"

Full Member

### Publications

"Determination of Radiation Doses to Certain Radiosensitive Organs of Patients  
During Selected X Ray Examinations Using Thermoluminescent Dosimetry"

M. S. Thesis in Radiological Physics, Pedro J. Montes, Graduate Student,  
Heriberto Torres, Ph. D. Thesis Advisor

Published in Research Abstracts, Medical Science Center, P. R., 1984

"Presiones Ambientales de Origen Antropogenico en las Antillas Menores"

Caribbean Educational Bulletin Vol. X No. 2, May 1983

AUCTORIBUS · PROFESSORIBUS · QUIBUS · HOC · MUNUS · COMMISSUM · EST

CURATORES

# UNIVERSITATIS · PORTORICENSIS

## Pedro José Montes García

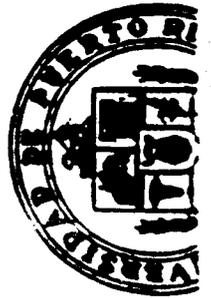
AD · GRADUM

*Magistri Scientiarum Ambientis Sanitatis*

ADMISERE · EIQ' · OMNIA · JURA · HONORES · PRIVILEGIA · AD · HUNC  
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DATUM · IN · URBE · MIO · PIEDRAS · PUERTO · RICO · DIE · OCTAVO  
MENSIS · JUNII · ANNO · DOMINI · MCMLXXXIV



*Sebastián*  
PRAESES  
CURATORUM

*Jaime*  
PRAESES

*W. S. H. King*  
DECANUS  
*Samuel*  
CANCELLARIUS



AUCTORIBUS • PROFESSORIBUS • QUIBUS • HOC • MUNUS • COMMISSUM • EST

CURATORES

# UNIVERSITATIS • PORTORICENSIS

Pedro José Montes García

AD • GRADUM

## Baccalaurei Scientiarum

ADMISERE • EIQUE • OMNIA • JURA • HONORES • PRIVILEGIA • AD • HUNC  
GRADUM • PERTINENTIA • CONCESSERE.

IN CUIUS • REI • TESTIMONIUM • NOS • HUIUS • UNIVERSITATIS • RITE  
CONSTITUTI • MAGISTRATUS • HUIC • DIPLOMATI • NOMINA • NOSTRA  
SUBSCRIPSIMUS • ET • NOSTRAE • UNIVERSITATIS • SIGILLUM  
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Ramón Meléndez Pardo

PROFESORES CURATORUM

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PROFESORES

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CANCELLARIBUS



UNIVERSIDAD DE PUERTO RICO  
RECINTO UNIVERSITARIO DE MAYAGUEZ.  
MAYAGUEZ, PUERTO RICO

*Diploma de Honor*  
*Otorgado a*

PEDRO J. MONTES GARCIA

*Por su responsabilidad, dedicación y aprovechamiento académico*  
*que le distinguen como Estudiante de Honor en FISICA*  
*durante el año académico 1975-76*

*Dado en Mayagüez, Puerto Rico*



*[Signature]* a 3 de MAYO de 1977

RECTOR

*[Signature]*  
DECANO DE ESTUDIANTES

*[Signature]*  
DECANO FACULTAD

# Certificate of Completion

This certifies that

Pedro J. Montes-Garcia, M.D.

*Has successfully completed*

**BrachyTherapy: Intraprostatic Seeds**

**Using I-125/Palladium-103**

*for Ablation of the Prostate*

*Sponsored By the American Cancer Society,*

*at Southeast Florida Regional Medical Center, Fort Myers, Florida*

*As an organization accredited to provide continuing medical education by the Accreditation Council for Continuing Medical Education (ACCME), the American Cancer Society, Florida Division certifies this continuing medical education offering meets the criteria for 10 credit hours in category 1 of ACCME Category 1 credit, provided it is used and completed as designed.*

*J. P. [Signature]* FEBRUARY 19  $\alpha$  20, 1996

*Director*

*J. P. [Signature]*

James H. [Signature], M.D.

**varian** 

*oncology systems customer support*

*Awards this*

*Certificate*  
*of*  
*Attendance*

*to*

*Pedro J. Montes*

*student*

*for attending the Varian*

*High Energy C-Series Clinac Technical Maintenance I*  
*course*

*on the dates*

*April 4, 1994*

*to*

*April 15, 1994*

  
*Pedro J. Montes*  
*de President*

  
*Varian Education Department*

American Association of Physicists in Medicine



Summer School

Be it known that

PEDRO J. MONTES

has attended the summer school on  
Advances in Radiation Oncology Physics

July 16-20, 1990

The University of Kansas, Lawrence, Kansas

Alfred R. Smith J. A. Purdy Long P. Long

CO-CHAIRMAN



# Certificate of Attendance

## James A. Haley Veterans' Hospital

13000 Bruce B. Downs Blvd.  
Tampa, Florida

EDRO J. MONTES, M.S.

attended the continuing

education program entitled:

MEDICAL MANAGEMENT OF RADIATION ACCIDENTS

Date(s): OCTOBER 4, 1991 Contact Hours: 7.0

Participant License#

Content Code: 2106 Provider# 27H0219  
Florida State Board of Nursing

Program Coordinator: *Raymond R. Stewart*  
Associate Chief, Nursing Services for Education

**The University of Texas Health Science Center  
at San Antonio**

**CERTIFICATE OF ATTENDANCE**

This confirms that the individual designated below participated in

ANATOMY FOR

RADIOTHERAPY TREATMENT PLANNING

January 30, 1987

and completed the designated activity at



Pedro J. Montes, M.S.  
La Arboleda Cond., Apt. 2305  
Guaynabo, PR 00657

Peter O. Kohler

Course Number S T0B0 00 010-7

Total hours received 36 Cat. I, AMA  
for this course  
(10 contact hours equals 1.0 CEU)

03686

Validation

**The University of Texas Health Science Center  
at San Antonio**

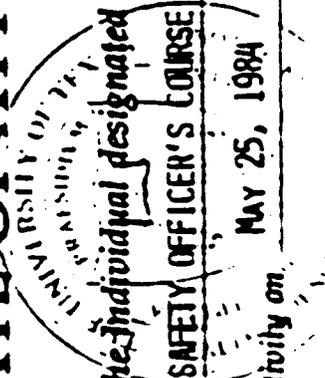
**CERTIFICATE OF ATTENDANCE**

This confirms that the individual designated below participated in

RADIATION SAFETY OFFICER'S COURSE

MAY 25, 1984

and completed the designated activity on \_\_\_\_\_.



*Timothy N. Caris*  
Timothy N. Caris, M.D.

PEDRO J. MONTES, MS  
RAD. ONC. CTR/P.O. BOX E H CAPARRA HEIGHTS  
SAN JUAN, PUERTO RICO 00922

Course Number S 1080 00 022 4  
Total hours received 36 HOURS  
for this course  
(10 contact hours equals 1.0 CEU)

Validation \_\_\_\_\_



# The University of Texas System Cancer Center

M. D. Anderson Hospital and Tumor Institute  
Texas Medical Center • 6723 Bertner Avenue • Houston, Texas 77030

CERTIFIES THAT

**PEDRO J. MONTES**

has completed a course in

## EXTERNAL BEAM DOSIMETRY - PRINCIPLES AND CALIBRATIONS

The course of eighty hours of instruction was held at The University of Texas System Cancer Center at Houston from January 3 to January 13, 1984 and included lectures and discussions upon basic physics relating to therapeutic radiology and the principles of radiation dosimetry. Laboratory exercises including calibration and other necessary measurements on Cobalt-60 irradiators and orthovoltage x-ray machines were also covered.

Robert J. Shalek, Ph.D., J.D.  
Department of Physics  
Course Instructor

Jack Cindiff, R.S.  
Department of Physics  
Course Instructor

  
James Bowen, Ph.D.  
Vice President for Education



# The University of Texas System Cancer Center

M. D. Anderson Hospital and Tumor Institute  
Texas Medical Center • 6723 Bertner Avenue • Houston, Texas 77030

CERTIFIES THAT

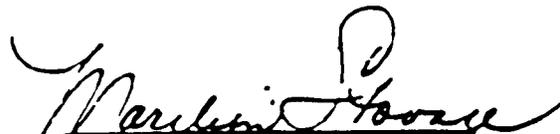
**PEDRO J. MONTES**

has completed a course in

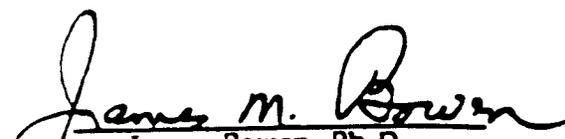
**EXTERNAL BEAM, INTERSTITIAL AND INTRACAVITARY DOSIMETRY -  
MANUAL AND COMPUTER METHODS OF CALCULATION**

The course of eighty hours of instruction was held at The University of Texas System Cancer Center at Houston from January 16 to January 27, 1984 and included lectures and practical tutorials in the generation of open beams, wedged beams, tissue compensators, inhomogeneity corrections, irregularly shaped fields, compounding of beams for fixed and rotational therapy, Paterson-Parker and interstitial calculations, isodose curves around interstitial and intracavitary applications.

  
Vincent A. Sampere  
Department of Physics  
Course Instructor

  
Marilyn Stovall, M.P.H.,  
Department of Physics  
Course Instructor

  
James R. Marbach, Ph.D.  
Department of Physics  
Course Instructor

  
James Bowen, Ph.D.  
Vice President for Education

285963





# The University of Texas System Cancer Center

M. D. Anderson Hospital and Tumor Institute  
Texas Medical Center • 6723 Bertner Avenue • Houston, Texas 77030

CERTIFIES THAT

**PEDRO J. MONTES**

has completed a course in

## HIGH ENERGY ELECTRON AND X-RAY DOSIMETRY

The course of fifty hours of instruction was held at The University of Texas System Cancer Center at Houston from January 30 to February 7, 1984 and included lectures and discussions upon the principles of high energy dosimetry, and laboratory exercises utilizing ionization chambers, thermoluminescent and ferrous sulfate dosimeters in the measurement of high energy electrons and x-rays. The course also included the measurement and control of various beam parameters such as beam alignment, beam uniformity and energy for betatrons and linear accelerators.

Peter R. Almond, Ph.D.  
Department of Physics  
Course Instructor

James Bowen, Ph.D.  
Vice President for Education



**Safety & Environmental Protection Division**  
**BROOKHAVEN NATIONAL LABORATORY**



*This Certificate attests that*

PEDRO J. MONTES

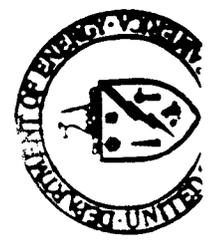
has attended a 320 hour program entitled

**APPLIED HEALTH PHYSICS**

August 13, 1982  
Date

Charles B. Yencel  
Division Head

Supervisor



# Certificate of Appreciation

IN RECOGNITION OF SERVICE IN THE FIELD OF

RADIOLOGIC TECHNOLOGY

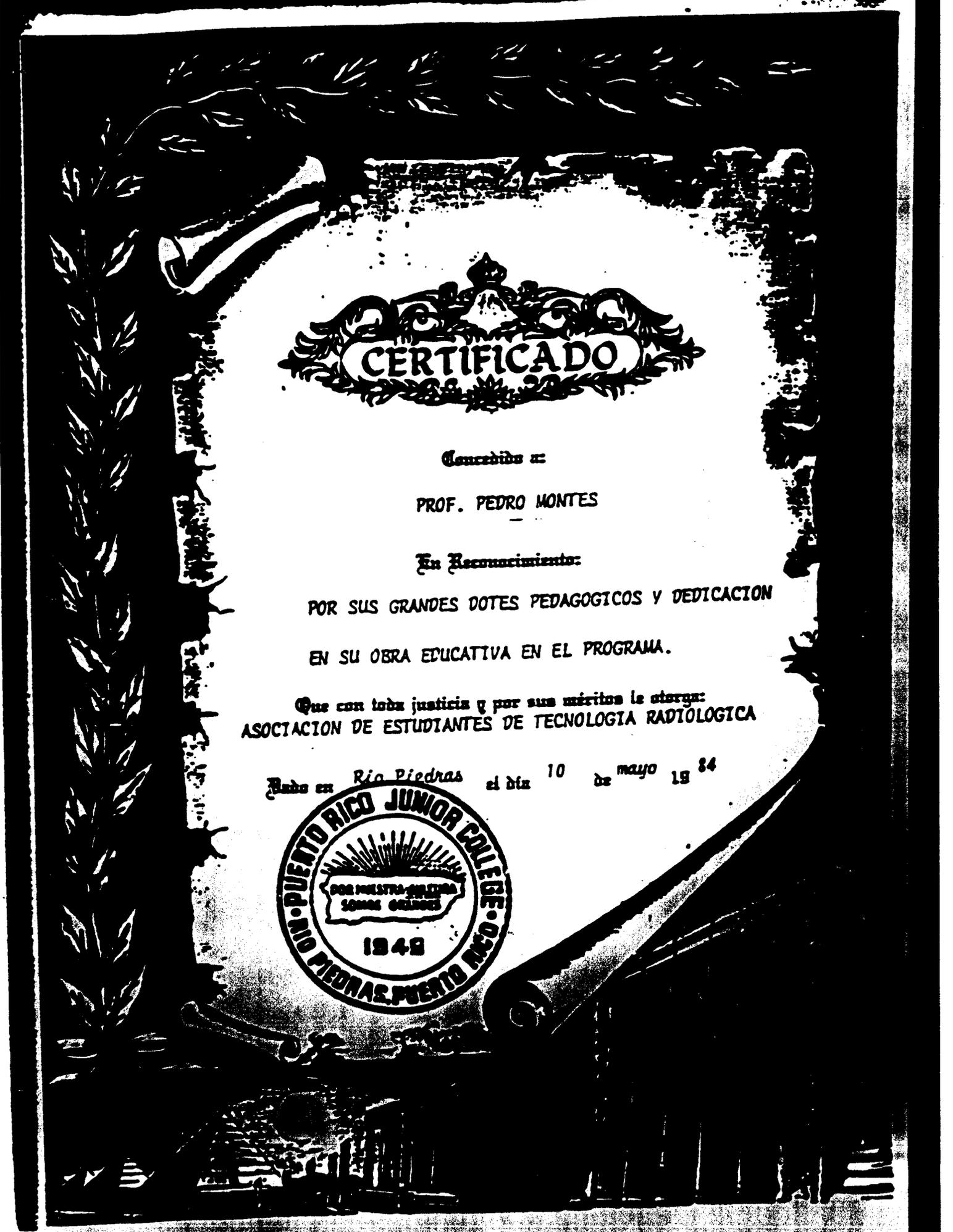
Isidro Montas

HAS GENEROUSLY CONTRIBUTED TIME  
TO ENHANCE OUR STUDENTS  
EDUCATIONAL EXPERIENCE AT  
BROWARD COMMUNITY COLLEGE

200803

  
Linda Thomas  
EXECUTIVE DIRECTOR

  
Isidro Montas  
EXECUTIVE DIRECTOR



**CERTIFICADO**

Concedido a:

PROF. PEDRO MONTES

En Reconocimiento:

POR SUS GRANDES DOTES PEDAGOGICOS Y DEDICACION  
EN SU OBRA EDUCATIVA EN EL PROGRAMA.

Que con toda justicia y por sus méritos le otorga:  
ASOCIACION DE ESTUDIANTES DE TECNOLOGIA RADIOLÓGICA

Hecho en Río Piedras el día 10 de mayo 19 84





# CERTIFICADO

Concedido a:

*Pedro Montes*

En Reconocimiento:

*Por su labor realizada.*

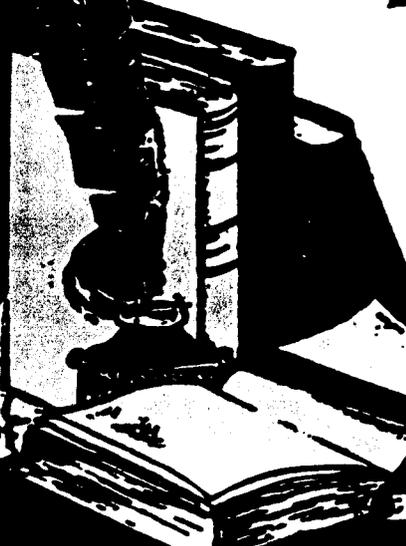
Que con toda justicia y por sus méritos  
le otorga:

*El Consejo de Padres.*

En *Siales,* Puerto Rico

a *6* de *mayo* de 19 *81*.

*Urbani*



TRAINING AND EXPERIENCE  
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Pedro J. Montes, M.S. (Curriculum Vitae Attached)	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE N/A
---	---

3. CERTIFICATION

SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
Radiation Oncology Physics (Pass Written Exam, pending orals)		

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	(1) Brookhaven National Lab. Safety and Env. Protection Div. Aug. 1982	320	150
	(2) Univ. of Tx.M.D.Anderson Hosp Feb. 1982	210	100
b. RADIATION PROTECTION	(1) " "	100	40
	(2) " "	15	5
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	(1)	40	30
	(3) Univ. of Texas Health Science Center May 1984	36	0
d. RADIATION BIOLOGY	(1)	50	30
	(3)	10	0
e. RADIOPHARMACEUTICAL CHEMISTRY	(1)	48	24

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

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Co-60	4000 ci	Metropolitan Hospital	8 Years	Therapy
Cs-137	1 ci	Metropolitan Hospital	8 Years	Therapy
Cs-137	1 ci	P.R. Nuclear Center	10 Months	Therapy
Cs-137	500 ci	Brookhaven National	1 Month	Calibration
Co-60	500 ci	Laboratory		
Cs-137	1ci	North Broward Medical Center	5 Years	Therapy

UNIVERSITY OF PUERTO RICO  
 MEDICAL SCIENCES CAMPUS  
 OFFICE OF THE REGISTRAR  
 P.O. Box 5067, San Juan, Puerto Rico 00936

OFFICIAL TRANSCRIPT

A - Excellent	F - Failure	NR - No Grade
B - Good	W - Withdraw Officially	S - Satisfactory
C - Satisfactory	P - Passed	I - Incomplete
D - Passing but Deficient	H - Honor	* - Course in P

STUDENT NUMBER : 802-25-6195 GPA BY: TRIM  
 SOCIAL SECURITY No. : ██████████  
 BIRTH DATE : 20 ABR 58 SEX : M  
 BIRTH PLACE : CIALES PR

DEGREES OR CERTIFICATES ISSUED  
 MASTER OF SCIENCE IN ENVIRONMENTAL HEALTH  
 June 8, 1984  
 CONCENTRATION

Course Code	COURSE TITLE	TYP	EC	Credit Hrs	Grade	Honor Points	Course Code	
	1 TRIM 81-82							
• HEDU6500	CORE CURRICULUM	T	1.00	08.00	A	32.00	SAAM6695	RE
• SAAM6527	PRINC ENVIRGNMENT SC	T	1.00	03.00	A	12.00		
• SAAM6544	RADIOLOGICAL HEALTH	T	1.00	04.00	A	16.00	SAAM6695	RE
	2 TRIM 81-82							
• BIDE6521	STATISTICAL ANALYSIS	T	1.00	04.00	A	16.00	SAAM6695	RE
• MICR3345	MICROBIOLOGY	T	1.00	03.00	A	12.00		
• SAAM6529	SEM ENVIRONME HEALTH	T	1.00	01.00	A	4.00	SAAM6695	RE
• SAAM6531	WATER ENVIRONMENT	T	1.00	04.00	A	16.00		
	3 TRIM 81-82							
• SAAM6534	AIR POLLUTION	T	1.00	04.00	A	16.00		S
• SAAM6535	ENVIRONMENTAL TOXICOLOGY	T	1.00	04.00	C	8.00		Me
• SAAM6538	READ ENVIRON HEALTH	T	1.00	04.00	A	16.00		
• SAAM6539	COMP SYST APP ENVIR HEALTH	T	1.00	04.00	A	16.00		S
• ZONE6303	HUMAN PARASITOLOGY	T	1.00	02.00	A	8.00		En
	VERANO 82							
SAAM6695	RESEARCH PROJECT	T	1.00	06.00	*	0.00		
	1 TRIM 82-83							
SAAM6541	LAWS ENVI HEALTH PRO	T	1.00	03.00	A	12.00		
SAAM6545	FOOD HYGIENE	T	1.00	04.00	A	16.00		
SAAM6610	RADIATION BIOLOGY	T	1.00	04.00	A	16.00		
SAAM6695	RESEARCH PROJECT	T	1.00	06.00	*	0.00		
	2 TRIM 82-83							
ADSS6572	THEORY OF ADMINISTRATION I	T	1.00	04.00	A	16.00		
CISO6506	SOCIAL ENVIRONMENT	T	1.00	04.00	A	16.00		
SAAM6695	RESEARCH PROJECT	T	1.00	06.00	*	0.00		
	3 TRIM 82-83							
SAAM6537	READ ENVIRON HEALTH	T	1.00	03.00	A	12.00		
SAAM6615	NUCLEAR INSTRUMENTATION	T	1.00	04.00	A	16.00		
SAAM6695	RESEARCH PROJECT	T	1.00	06.00	*	0.00		

The Medical University of Puerto Rico does not discriminate on the ground of race, handicap or admission progress, color and/or sex.

REMARKS

NAME: ██████████  
 ADDRESS: ██████████

