

PRNC207

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PUERTO RICO NUCLEAR CENTER

STAFF CURRICULUM VITAE

US. A.E.C. Program Review

December 9-10-11, 1973

OPERATED BY UNIVERSITY OF PUERTO RICO UNDER CONTRACT

NO AT (40=1)-1833 FOR US ATOMIC ENERGY COMMISSION

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PUERTO RICO NUCLEAR CENTER

ORGANIZATION CHART

Sauer 1, 1978

---Page Break---

TABLE OF CONTENTS

?Agard, Eugene T.

?Arce Quintero, Rafael

Block, Arthur McBride

Boseh, Antonio

Brown, Raymond Allen

Brown Campos, Richard

?Canoy, Michael John

Castillon, Jose P. A.

CCadeio Maldonado, Arturo

Chiriboga, Jorge

Clements, Richard G.

Colén, José Antonio

Colén, Julio I.

?Cuevas de Colén, Elvira

Cuevas Ruiz, José

de Lebn-Dancel, Delfin

Deshpande, S.N.

Dietrich Ormacha, René

Drewry, George, E.

Eberhardt, Manfred K.

Estrada Pinto, Alejo

Ferguson, Frederick F.

Ferrer-Monge, Jost A.

Gilead), Aviva E.

Gileadi, Michael

Gonzalo-Gonzalez, Julio A.

Kay, Mortimer I.

Kolehmainen, Seppo E.

Koo, Francis K. 8.

Medicat Physics

Physical Sciences, Radiation Chemistry :

Physical Sciences, Radioecology, Terrestrial Ecology

Radiotherapy and Cancer.

Medical Sciences and Radiobiology, Schistosomiasis». |

Reactor. . e

Radioecology, dobos Bay, Site Selection Study

Physical Sciences.

?Tropical Agro Sciences

Medical Sciences and Radiobiology, Fesciolias -

Radioecology, Terrestrial Ecology... .

Radioecology, Terrestrial Ecology...

Medical Sciences and Radiobiology, Virology

Roadioecology, Terrestrial Ecology...

Tropical Agro-Sciences so... :

?Medical Sciences and Radiobiology, Fatcolisis .

?Tropical Agro-Sciences, Radiation Chemistry .

Clinical Radioisotope Applications, Lung Study .

Radiocology, Terrestrial Ecology. orn

Physical Sciences, Health and Safety

Radioecology, Terrestrial Ecology...

Medical Sciences and Radiobiology

?Tropical Agro Sciences :

Nuclear Engineering.

Health & Safety, Joint Radiation Survey

[Nuclear Science

?Nuclear Science, Neutron Diffraction

Radiocology, Marine Biology . .

Tropical Agro Sciences... nna

---Page Break---

Lanaro, Aldo E.

Lee, Rupert A.

Liard Bertin, Felix

Lopez, Victor A.

Lowman, Frank G.

?Maglc, Rastko .

Marcial, Victor A,

Martin, F. Douglas

Martin, Stephen G,

?Mo, Helen

Mo, Tin

?Moussa, Mounir Tawik

Muiioz Ribsdeneira, Fausto

Nazario, Mata L.

Pedersen, Knud Borge

Past, Les

Plaza, Heriberto

Ritchie, Lawrence 8.

Rushtord, Frederick E,

Sasscer, Donald S.

?Simpson, George A.

Vieonte, Vance P.

Walker, David. W.

Wood, Elwyn, .

?Youngbluth, Marsh J.

Clinical Radioisotope Applications

[Nuclear Science, Hot Atom & Radiation Chemistry

?Medical Sciences and Radiobiology, Electron Microscopy

Medical Sciences and Radiobiology

Director's Office, Radioecology

Nuclear Science, Neutron Diffraction

Director's Office, Radiotherapy and Cancer

Radioecology, Jobos Bay

Radioscology, Jobos Bay.

Radioecology, Jobos Bay. - toa

Radioecology, Marine Biology, Jobos Bay |...

Radioecology, Marine Biology, Jobos Bay

Radioecology, Marine Biology, Site Selection Study

Radioecology, Jobos Bay...

Radioecology, Site Selection Study

Radioecology, Jobos Bay.

?Nuclear Engineering

Radioecology

Nuclear Engineering...

Director's Office

Information and Education Services

?Nuclear Engineering... .

Physical Sciences, Radiation Cherise, Med Pes.

Health and Safety

Radioecology, Jobos Bay

Radioecology, Jobos Bay.

Rodioecology, Marine Biology, Jobos Bay, \$\$.

Radioecology, Site Selection Study

geRgeggsees

SBSSSsesseaauseaaass

---Page Break---

TABLE OF CONTENTS by DIVISION

Director's Office

Lawrence R. Ritchie Director _ bee ee 78

Frank G. Lowman Associate Director for Mayaguez Operations ||) 1 1) | 5

Associate Director for Environmental Programs | | | | |

?Victor A. Marcial, M.D. Associate Director for Medical Programs ~ 55

Radiology Division

Frank G. Lowman Hood bee 53

Arthur MeB, Block Terrestrial Ecology | a 5

Michael J. Conroy Director, Jobos Bay, Site Selection sad piiiiioog

Richard G. Clements Director, Terrestrial Ecology... pessil low

José A. Colén Terrestrial Ecology

Elvira Cuevas de Colon Terrestrial Ecology : pees

George E. Drowry Terrestrial Ecology... Feces a

Alejo Estrada Pinto Terrestrial Ecology

Seppo E.Kolehmainen Director, Marine Biology... ss. | oe

F. Douglas Martin Jobos Bay =e Pees

?Stephen G. Martin Jobos Bay ee

Helen Mo obos Bay : Fee e ee

Tin Mo ?Marine Biology, Jobos Bay

Mounir Tawtik Moussa Marine Biology, Jobos Bay...

Fausto Mufioz Ribadenaira Marine Biology, Site Selection Study... 2...

seegusegaessagegess

Maria L. Nazario JobosBay 22...

Gary P. Owen Site Selection Study

dames D. Parrish JobosBay 2...

Leslie Piastro

Vance P. Vicente slobos Bay

Elwyn D. Wood Site Selection Study, Marine Biology, Jobos Bay. ||||

?Marsh J. Youngbluth Site Salection Study.

?Medical Sciences and Radiobiology Division

FF. Ferguson Acting Head. 35

Raymond A. Brown Director, Schistosomiasis a 8

orge Chiriboga, M.D. Director, Fascioliasis . sees 16

Julio J. Colén, Director, Virology 20

Delfin de León-Dancel _Fascioliasis : sees : 8

Félix Liard-Bertin Electron Microscopy. Senet eee oT

Victor A. Lopez Microbiology . Feel

Clinical Radioisotope Applications Division

?Aldo E. Lanaro, M.D. Head eee eanese 46

René Dietrich, M.D. Lung Study - 8

---Page Break---

Radiotherapy and Cancer Division

itor A. Marcial, M.D. Head

Antonio Bosch, M.D. Radiotherapy

Tropical Agro Sciences Division

Francis K.S. Koo Head

?Arturo Cedeño Maldonado teehares

José Cuevas-Ruiz Sees

'S.N. Deshpande Radiation Chemistry

sosé A. Ferrer-Monge a

David W. Walker Insect Sterility

Medical Physics Program

Eugene T. Agaed Heed

George A. Simpson

Nuclear Science Division

Julio A. Gonzalo-Gonzalez Head»... . . :

?Mortimer I. Kay Director, Neutron Diffraction

Rupert A. Lee Director, Hot Atom and Radiation Chemistry

Rastko C. Maglic Neutron Diffraction.

Physical Sciences Division

osé P.A. Castrilén Acting Head... :

Rafael Arce Quintero Radiation Chemistry...

Arthur MeB. Block . been

Monfred K. Eberhardt Health & Safety... - 7

George A. Simpson ?Acting Director, Radiation Chemist

"Nuclear Engineering Division

Donald S. Sasseer

?Aviva E. Gileadi

Koud 8. Pederson

Horiberto Plaza

Reactor Division

Richard Brown Campos Head

Health and Safety Division

Porfirio Toledo Rio Piedras Operations

Manfred Eberhardt Physical Sciences Division

Michaol Gileadi Joint Radiation Survey

{Information and Education Services Division

Frederick E. Rushford Head

Sees

BR

82

Bas

BRR

---Page Break---

DATE OF BIRR :

University of London

(The Middlessex Hospital)

University of Toronto

PROFESSIONAL EXPERIENCE

POSITION

Tessher

Asst. Paystcist

Lecturer (Asst. Prot.)

Scientist IZ

CCURRICULIM VITAE,

Bugene Theodore Agand

?August 15, 1952 HACE OF BIRTH: Bartedos

Married Wo, OF CHILDREN: Four (4)

suammors, veaR

B.Sc, (1et.Cless) Maths. Physics 1957

M. See Prysies 1998

Pa. 2, Prysics ago

ESEETYETON

Harrison College (Barbados)

Mass. Gen. Hospital (U.S.A.)

Vatveraity of M. T. (tana)

Puerto Rico Nuclear Center

"On Fellowship Leave fron October 1967 to Septenber 1970.

PURLIcABIOKS

?ADUIRIONAL DATA

Approximately 10 to date.

DATES

Sept. 1952-Aug. 1954

Jen. 1959-Oct. 1965

Yor. 1965-June 1972*

Sly 1972+ Present

A, AsSe, Theses: "Fuystesl problems involved in the External Counting
Cemm-fey Mwittere Located in a Seattering Nedium?.

Tats work vas done in the Departeent of Physics Applied
to Medicine, at the Middlesex Hospital Medical School,
London, Fasiand.

---Page Break---

Curiculm Viter Dr. Be, Agar

ADDEITIONAL DATA (Cont)

Ba. D. Thesis: "In Vivo Neutron Activation Analysis end
Associated Dosimetry?.

Most of the research work was done at the
Toronto General Hospital.

B, Membership in Professional Societies:

2, Health Physics Society

2. American Association of Physicists

in Medicine.

Congress in Radiological Physics to Ministry of Health,

of .

D, State Representative on University of The West Indies,

[Setoper Torres Top) a number of other Tastes,

---Page Break---

Name: Rafael Arce Quintero

Age: 28 July 21, 1944), Height 6'0", weight 175 pounds

Marital status: Married, one child

Address: 435 Mizar, Urb. Dos Pinos, Rfo Piedras, 00923,

Educational Background:

High School: University of Puerto Rico High School, Rfo Piedras, (1961)

University of Puerto Rico, Rfo Piedras, Puerto Rico

B.S. degree, (1965), Major: Chemistry; Minor: Physics

University of Wisconsin; Madison, Wisconsin

Ph.D. degree (1971), Major: Physical Chemistry; Minor: Physics

Ph.D. thesis and training: Photochemistry and Radiation Chemistry

Work Experience

: Teaching Assistant for the laboratory course of undergraduate

Physical Chemistry at the University of Wisconsin

1971-1973: Assistant Professor at the Department of Chemistry of the

University of Puerto Rico, Rio Piedras

Courses taught:

a) Chemistry 101-102 - general chemistry for sophomore

) Chemistry 363-364 ~ Physical Chemistry

©) Chemistry 365-366 ~ Intermediate laboratory of Physical Chemistry

1971-1973: Scientist I at the Puerto Rico Nuclear Center in the Gamma:
Radiolysis project, research and teaching

Honors and Societies:

Sigma Xi Scientific Society

American Chemical Society

Graduate studies entirely financed by the scholarship program of the
Economic Development Administration of Puerto Rico

Honor registration at the University of Puerto Rico

---Page Break---

Rafael Arce-Quintero (curriculum vitae)

Publications:

1) R. Arce, Ph.D. Thesis, University Microfilms, Michigan

2) R. Arce, and John E Willard, "Elementary Process in the Photochlorination of methylpentane glass at 77-97%", J. Physical Chemistry, 76, 1600, 1872.

3) R. Arce and L. Ramirez, "Intermediate Species in the photolysis of heterocyclic compounds at 77°", 7th Caribbean Chemical Conference, Mayaguez, Puerto Rico, January 1973.

Interest:

1) Teaching at the college level, working with students

2) active in sports (basketball, baseball)

3) Rock and stamp collection

4) Research interest:

a) Photochemistry of heterocyclics at 77°K in rigid glasses.

Purpose of identifying intermediate species, triplet state quantum yields, triplet-triplet extinction coefficients

b) Photochemistry of di-terbutylperoxide in alkanes, alcohols, alkyl halides at different temperatures.

) Photochemistry of halogens in organic glasses with interests in the halogen disappearance quantum yield, radical yield, radicals produced, products yields. Relationship between liquid and gas phase photohalogenations and solid state photohalogenations

4) Diffusion controlled radical reactions; reactions of radicals produced by gamma irradiation with small molecules like oxygen, bromine, chlorine as a way to determine diffusion properties of these molecules in organic glasses.

) Mercury photosensitization

3-26-1973

---Page Break---

ARTHUR MCBRIDE BLOCK

Social Security Number - 13-30-5543

Address - 1754 Pafos &+, Venus Gardens, Rio Piedras, Puerto Rico

Place and date of birth - Newark, W.J.; June 26, 1938

Education and degrees

High School - Wevurk Academy, Newark, W.J.: Diploma 1956

College - Cornell University, Ithaca, N-Y.; A.B.; Major in Chemistry and Physics 1961

Postgraduate - Rutgers University, New Brunswick, NJ. Ph.D.

Major in Physical Chemistry 1957

Thesis - "Light Scattering from Spheres in Water Suspension?"

Professional Experience

1962 - 67 Instructor, Analytical chemistry and Basic (1st year) Chemistry,

Rutgers University, New Brunswick, NJ.

1962 - 62 Chemist, Merck Co., Inc., Kenilworth, NJ. (Analytical Research-Chemical Control Division).

1963 - 64 Chemist, Johnson and Johnson Co., Inc., New Brunswick, NJ. (Analytical Research - West Research).

1967 Lecturer, University of Puerto Rico, Rio Piedras, Puerto Rico.

2968 Assistant Professor, University of Puerto Rico, Rio Piedras, P.R.

1467 - 72 Scientist - Ad Honoren, Puerto Rico Nuclear Center, Caparre Heights

St

en, San Juan, Puerto Rico.

297} = Soleniet I, Physical Scences Division and Terrestrial Ecology

Present Program, Puerto Rico thelear Center, Ro Pledras, Puerto Rico.

Professional Ascootation and Societies

Colgate-Pelmolive Fellow, 1963-64

Siiga #1 Socity, New Brunswick Chaster

?Associate Kenber ~ 1965

Mesber - igre

San Juan Area Club Councilior= 1971

Averivan Shenieal Society, 2970

Optical Society of America, 1971

Association of fouteastera Biolopiete, 1973

---Page Break---

Primary Teaching Interests:

Experimental Sciences, Mathematical Setences, History of Science.

Erimary Research Interests

Apulieations of Light-seattering in the characterization of bio-physical
eyetens.

Chemical analysis of eco-aystens.

Toxicity and Chemical treatment of non-biodegradabile compounds.

?Theoretical description of ground state properties of biologically active molecules,

Student Instruction

Courses taught: Basic Chemistry (1st. year), Analytical Chemistry, Physics, Chemistry, Instrumental Analysis.

Committees: Academic Affairs (Dept. of Chemistry, U.P.R.), Graduate Student Association (Chemistry Department Representative 1964-1966, Rutgers University). Graduate Admissions (Department of Chemistry, U.P.R.),

Proposals and Funding from Government and non-Government: Sources

(Quaternary Structure Studies of Glycogen, Phosphorylase Using Laser Light Scattering", Research Corporation grant: \$6,500, 1968,

Westinghouse Gift Program: 1 xy Recorder, 1969.

Department of Housing, Commonwealth of Puerto Rico: Electronic Components (Surplus) Estimated value: \$10-12,000, 1969.

Thermodynamic Activity Incorporation and Amino Acid Content of Glycogen Phospho-

rylase Enzyme", Submitted to ABC. Approved, Unfmded 1905 C9,

?Amino Acid Composition and Structure of Active?and Allosteric Sites of
Glycogen Phosphorylase Isolated tron the Mugeles end Blue Crabe (Callinectes
duine)*, HIB, Approved, Untuniea Tort?

?Particles Size Distribution of Particulate Matter in Marine Areas Currently
Considered Acceptable as Ocean Outfalls for Waste Disposal?, Public Works:
Comonveaith of Puerto Rico, Approved. Unfunded 1971"

?Equiment tor a Photochemical Experinent in Intermediate Laboratory Course
(Paysicel Chemistry). (University of Puerto Rico)". HEM, Approved, Ape
proximately \$5,000 granted, 1972.

Eublications

Approximately 15 to date.

---Page Break---

November 14, 1973 7

?CURRICULUM VITAE

ANTONIO BOSCH, M.D.

Born,

Malaga, Spain ~ June 7, 1930- U.S. Citizen 1964

Field

Radiotherapy and Cancer

Education

5.5. (premedical) Academia Hispano-Mexicana, México, D.F. 1948

M.D. Universidad Autónoma de México 1955

Certifications

Diplomate American Board of Radiology (Radiotherapy) 1963

Puerto Rico State Board of Medical Examiners 1984

Specialty Training

Ciba Laboratory Fellowship for Clinical Cancer Research 1955-56

Fellow in Gynecologic Cancer, Women's Hospital, México City 1955-56

Internship, Elmhurst General Hospital, New York 1956-57

Resident in Malignant Diseases, American Oncologic Hospital, Philadelphia, Pa. 1957-59

Residency in Radiation Therapy, Roswell Park Memorial Institute, Buffalo, N.Y. 1959-60

Residency in Radiation Therapy, J. Gonzalez Martinez Oncologic Hospital,

San Juan, Puerto Rico 1960-61

Research Assistant, Radiotherapy and Cancer Division, Puerto Rico Nuclear

Center, San Juan, Puerto Rico 1961-63

Experience

Junior Attending in Radiation Therapy, J. Gonzalez Martinez Oncologic

Hospital, San Juan, Puerto Rico 1961-63,

Associate in Radiation Therapy, University of Puerto Rico School of Medicine,

San Juan, Puerto Rico 1962-64

Assistant Professor in Radiation Therapy, University of Puerto Rico School of

Medicine, San Juan, Puerto Rico 1964-68

Chief Scientist 1, Puerto Rico Nuclear Center, San Juan, Puerto Rico 1963 to dere

Attending in Radiotherapy, 1. Gonzdlez Mortlnez Oncologic Hospital,

San Juan, Puerto Rico 1963-72

Aszociote Professor in Radi

Medicine, San Juan, Pu

0 Therapy, University of Puerto Rico School of

2968 10

---Page Break---

Publications

Approximately 20 to date

---Page Break---

PERSONAL:

EDUCATION:

socrertss:

EXPERIENCE:

?CURRENT INTERESTS:

PUBLICATIONS;

~CURRTCULM VITAE

Raysond Allen Brown

Pine Grove Condominium Apt. 45 ¢

Tela Verde, Muerto Rico

Born, New York, Deceaber 27, 1919

Married, two children

Wogner Lutheran College, Staten Island New York

B.S. Chemiscry, 1941

California Inscitute of Technology, Pasadena, California

M.S. Physical Chemistry, 1947

Advisor = Prof. £.'H . Swtft

Ph. D. Physical Chemistry of Proteins, 1949

Minor, Physics

Advisor - Prof. S. G. Kirkwood

Fellow, New York Academy of Science

Member of Sigma Xi

1969-1951

NIH Postdoctoral, Protein Physical Chem., Cal. Tech,

1951-1957

Lederle Lab., Physical Biochem, research

1957, 1958

Venezuela Institute, Visiting Scientist:

1958-1963

Wistar Institute, Philadelphia, Associate Member

1963-1968 (Dec. 31)

Biological Division, Oak Ridge National Labs.,

Immunology

1968 co date

Chief Setenetet IT ~ PRNC

Molecular Studies in Immunology & Physical Stochemtstry

Approximately 54

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10

?CURRICULIM VITAE

civil Statues

Home Address:

Educationsl. Background:

Professional Experience:

Commonwealth O61 Refining

Ponce Cement Corporation

University of Puerto Rico, Mayaguez

Puerto Rico Nuclear Center

Research Activities

Canna Ray Dosimetry

Reactor Instrumentation

Memberships:

Colegio de Ingenieros, Arquitectos y Agrimensores de

Richard Brown Campos

Ponce, Puerto Rico, 10/26/30

Married

cruz Maria Street

Bellas Lomas

Mayanaez, Puerto Rico 00708

5. (Mechanical Engineering)

University of Puerto Rico

M.S. (Nuclear Technology)

University of Puerto Rico

Radioisotopes Techniques Course

Ose Ridge TNS

Reactor Supervisor Training

Course, Oak Ridge National

Laboratories

Nuclear Power Reactor Safety,

wut

Field Engineer

Instructor, Department of

Physics

Research Assistant, Research

Head, Reactor Division

Sociedad de Ingenieros Mecanicos de? PR

Wealeh Physics Society

Licenses: Puerto Rico Licensed Engineer #2874

1953

1962

1987

1973 (Suener)

1955

1955

1955-58

1956

---Page Break---

MICHAEL JoWN caKoY "

Carriculum Vitae

Hone

fe 195-F ESite Juanita

Bettas Tomas

Kayugery Pe Re 0708

Work

Rada oecoTogy Division

Puerto Rico Nuclear Center

wayagues, P.'R 00795,

BIRTHPLACE: Ada, OxLanona

BIRTH DATE: August 5, 1939 photo

wumzz, 1960 September 1973

fete Nase: Karsten (Christensen) Canoy. (Birthplace: Denmark)

Sha laren?

Names and Ages: Eva Marie Canoy, 12 yeare

Michele Jenee Cancyy 6 years

ADUCATIONAL HISTORY, (Sve attached chest for details)

Inotstytion Zocation Be Degree ares

larding College Searcy, 1956-60 AB Engle

Arkantes Feychology

1963-64 Zoology-

Chemistry

University of Denver 1960 Psycholosity

Denver Colorado

Harding College 1961-62 war Course? ing

Education

Machigan State east Lansing, 1962 Poychonetrics

University iaengan

University of dustin, 1966-68 Zoology

University of Ghape? Hill, 1968-70 Doctorate zoology

North Carolina North Carolina 1972

Da

station: DNA in Ecological Systens, (Supervivort Drs iis 7. odun?

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2

VOCATIONAL EXPERIENCE:

Date

1959-60

1960-61

1961-62

1962

1963

1965

1965-66

1966-67

1967-68

1968

1970

Title

Freelance

writer,

Photographer

Photo Tab

?Technician

Psychometric

Assistant

Counselor

Counselor

?Audio-visual

Technician

?Teaching

Assistant

Laboratory

Technician

Consulting

Psychometrist

Teaching

Assistant

Director,

Jobo Project

Beply

self

Searcy, Arkanso

Denver, Colorado

Workman Studio

Denver, Colorade

Harding College

Searcy, Arkans:

Albion Public Soh.

?Albion, Michigan

Harding colle,

Searcy, Arkans

University of Texas

Austin, Texas

University of Texas

Austin, Texas

sere

Austin, Poxae

University of Texas

Austin, Texas

University of N.C.

Chapel Hil, mG.

Puerto kico

Nuclear Center

Mayaguen, Pek.

M. J Conoy

cription

Writing copy and furnieng

photos for news, adventures

and historical articleo.

Commercial photo laboratory
technician handling industrial,
USDA and NASA accounts.

Administration, scoring, and
Statistical analysis of college
entrance and placement tests.

Administer psychological tests
and offer personal and circum-
stantial counseling to high
school students.

Operation of AV equipment,
make or edit filmstrips, tapes,
movies for educational
purposes.

Laboratory instruction in
gunner courses in Hunan
Anatomy and Physiology.

Biomedical engineering in,
experimental design for flash

Dlinness studies with lascrs.

Developed 3G detection and

analysis equipment, used Com

puter of Average Transients,

helium, argon, and ruty las:

Developed private fire for

contract work with the Office

of deonomic Opportunity for

The administration and analysie

of miltivlingual and "oulture

free" psychological tes:

?Teaching laboratory eections

of Hunan Anatomy and Physiology

Teach laboratory sections of
Basic Zoology.

Supervise a before-after
environmental study of @ bay
where a power plant is under
construction.

---Page Break---

VOCATIONAL SCIENCE (cont'd)

Dave

1971

1972-73,

Time Employer

Project Puerto Rico

Director, Nuclear Center,

San Juan, P.R. Mayaguez, P.R.

Guayama: 116

Project

Project .

Director,

Jobos Prys.

Guayeniie

Project

Site Selection

Survey Project

Med. Canoy 43

Doocription

Supervise @ before-after

environmental study of a bay

where a power plant is under

construction,

Supervise an ecological study

of @ thermally altered bay.

Environmental survey of
potential power plant site

---Page Break---

4

EOE

Mane; José PA. Castrilién

Citizenship: Argentine

Date and Place of Birt)

Jamary 4, 1926, Buenos Aires, Argentina

Marital statue: murried; 2 sone

Social Security number: 583-07-012

Experience:

1950 = Th.D, University of Buenos Aires, Argentina

Thesis title: "The alkaloids of Argentine cacti

?Srichocereus candicans and trichocereus terschekis?

1950-2 = Research Laboratories of Atonor S.A.M., Munro, Argentina

1963-5 + Research Laboratories of Squibb S.A., Argentina

1956-6 ~ Organic Chemistry Laboratory of the Argentine Atomic

Energy Commission

1960-1 ~ Fellowship of the Argentine Council, University of Colorado

under Professor Bert M. Tolbert

96 = Associate Scientist I. Puerto Rico Nuclear Center.

1967 = Associate Scientist IK, Puerto Rico Nuclear Center,

1971 present Professor of Radiochemistry (24 honoree)

of Puerto Rico.

versity

agmi-2 = One year leave at the University of Ammóin, Paraguay
as Professor of Organte Chesistry on sn Organization of
?the imerican States Progran.

aoe = Acting lesa, Physical Sciences Division,

Publications

Approximately 18 publiestions to date.

---Page Break---

18

CURRICUTAM veaKE

Arturo CedeRo aldonada

Sedentist 1, Tropical Agro-Seiences Division, PRIC

Aseletant Horticulturist, Agricultural periment Station, UPR

Assistant Professor, Departaent of Horticulture, UPS

Education and Experience

1962 - B.S. (Agriculture) University of Puerto Rico, Mayaguez

1966 - M.S. (Plant Science) University of California, Riverside

1975 ~ Ph.D. (Plant Physiology) University of California, Riverside

1962-66 Research Assistant, Agricultural Experiment Station,
UPR, Mayaguez

1966 to present, Assistant Horticulturist, Agricultural Experiment
Station (UPR), Mayaguez

1973 Scientist I, Puerto Rico Tropical Center, Mayaguez

1973 Assistant Professor, UPR, Mayaguez

Publications

Four papers were published.

---Page Break---

1

(CURRICULUM VITAE

JORGE CHIRIBOGA M.D.

Field - Biochemistry, Pathology

Senior Scientist TT & Director of the Fasciola hepatica Program

Degrees:

1925-1931 German School of Lima, Fer6 = Diploma

1931-1936 High School - Anglo Peruvian Schools, Lima, Perú ~ Diploma

1938-1941 University of San Marcos, School of Sciences, Lima, Perú

1945 University of San Marcos, School of Medicine = B.M.

1968 University of San Marcos, School of Medicine ~ M.D.

Experience

1942-1945 Instructor in Pathology - School of Medicine, Lima, Peru

1945-1948 Research Associate Public Health Ministry, Lima, Peru

1949-1951 Fellowship de 1a Comision de Cultura de 1 Republica, Argentina

1952-1953 ___Fellowship of Biochemical Institute (Professor Luis F. Leloir)

Buenos Aires, Argentina

1956-1957 Head of the Department of Biochemistry - School of Agriculture,

La Molina, Lima, Peru

1956-1957 Head of the graduate program - School of Agriculture, La Molina,

Lima, Peru

1957-1959 Dean, School of Medicine, Arequipa, Peru

1957-1959 Head of the Department of Biochemistry, School of Medicine,

Arequipa, Peru

1959-1966 Associate Professor - University of Tennessee Atomic Energy

Commission Agricultural Research Laboratory, Oak Ridge, Tennessee,

1966-present Assistant Director for Scientific Programs, Puerto Rico Nuclear Center, and Professor of Biochemistry, School of Medicine,

University of Puerto Rico,

More about 100 publications «

---Page Break---

?

CURRICULUM VITAE

Name: Richard C. Clenente

Address: Santa Rosa St, #125, Urb, Ronan!, Rio Piedras, Puerto Rico

DOB: April 28, 1941, Indianapolis, Indiana

Height, 5'10", weight, 255 lbs: healthy, no defects

Status: married, four children, military service, 1A

Position: Director, Terrestrial Geology and Senior Scientist 1, Puerto

Nuclear Center, San Juan, Puerto Rico.

6 Purdue University

Major: Agronomy (Soils), Minor: Botany, Chemistry, Geology

Ph.D. 1966 University of Georgia

Major: Agronomy; Minor: Zoology, Biochemistry

Experience:

1956 - 1958 Scientist, Department of Tropical Research,

Standard Fruit & Steamship Co., San Juan, Honduras.

Research on soil fertility and plant-water relationship

collaborated with D. D. Doolittle,

1958 - 1961 Quality Control = Head, Quality Control Department,
Honduras Division of Staxiara Fruit & Steamship Co.,
Ja Ceiba, Honduras, supervisor of Division handling
procedures from harvesting through loading operations
at the Port. Development:

1962 = 1963

vegetable oil for a factory of Uantecs y Jaden, S.A. &
Society of Standard Fruit + Steamship Co. Project

100% experimental Sinesrle program dealing with the

introduction of Hawaiian varieties, planting, fertilization

and growth hormone studies,

1963 - 1966 Research Institute, Department

of Agriculture, Studies of nitrogen

fertilization, and moisture level

under « Soviet Agricultural

Research Institute.

Department of Agronomy, University of

Georgia, studies of fertilization

and soil temperature regime

work, under the direction of Dr.

1966 - 1965 Research Institute, Institute

Fiele

oP Tooley, University of Georgia.

Director of the Terrestrial Ecology Program in Panama

salvia In connection with the Inter-oceanic Canal Studies.

---Page Break---

1968 - 1969 Research Associate, Institute of Ecology. Project Coordinator

and one of Principal Investigators of a IY Grant to study the

Productivity and Mineral Cycling on Natural and Impacted

Watersheds at Coweeta, North Carolina

1969 Director, Terrestrial Ecology and Senior Scientist

Ruerto Rico Nuclear Center, Rio Piedras, P.R.

agte Prof. of Biology, Aa honoren, University of Puerto Rico, Ric

Piedras,

AL Ad Hoe Coomtvtees

1, Interagency Comittee on Water Resources, Department of Public orks,
Commonwealth, 1972,

2, Member of Oceanographic Project Control Board, Area of Natural Resources,
Department of Public Works, Comonveelh 197) - 1972.

3. Advisory Comittee to the President of the University of Puerto Rico
?on Enviromental Studies 1972 - 1973.

4, Comittee on Caribbean Wational Forest Land and Retources Managenent .
U.S. Depertuent of Agriculture, Forest Service, institute of
?Topical Forestry 1973.

5. Advisory Comittee of the Enviromental Quality Bound, Comonvealh,
1973.

3. Offices

Treasurer, Sigma Xi Club, University of Puerto Rico, Rio Piedras, P.R.

1973.

President, Sigma Xi Club, University of Puerto Rico, Rio Piedras, P.R.

1973.

Submissions

Approximately 15

---Page Break---

CURRICULUM VITAE

Name: José Antonio Colón

Residence

ADDRESS: EL Verde Field Station, Terrestrial Ecology Program

Puerto Rico Nuclear Center, Route 18, Km. 19.3

Rio Grande, Puerto Rico.

BIACE AND DATS OF BIRTH: June 10, 29kh, ato Rey, Puerto Rico

CIVIL srAmUS: Married

RESEND Pos

Research Associate I, Terrestrial Ecology Progran

Puerto Rico Nuclear ?enter, Ro Piedras, P. Rico,

DEUREES: Bachelor in Science with Maer in Biology, 1968.

re

al:

1968 to present - Resoarch Ausisvont and Research Associate at

?the Terrestrial Ecology Program, Puerto Rico

Muclear Center.

BUBLICATIONS:

1970 - A Versatile Stenflow Coller for Interception studies,

With B.G, Clements, P.RAC, Terr, Eool., Ann, Rep.

1973 - Distribution of 137ce in Sofie and Vesetation on the
Island of Puerto Rico, Health Physics, Pergamon Press.

2s 69-475.

---Page Break---

CURRICULIM VITAE

Julte T. Colon, Ph. D.

January 1969

Present Assignuent:

Associate Professor in Virology, School of Medicine

Chairman Graduate Comittee School of Medicine

Ravcation:

a, Primary School- Eugenio Marfa de Hostos, Coauo, P. R. 1943

b, Ifgh School- Florencio Santiago High School, Coane, P. R. 1964

?. College- University of Puerto Rico, Rio Piedras,

Puerto Rico, B. 8, -Chenistry) ~ 1950

4, University of Chicago, Chicago, I1linots

Ph. D, Microbtology= 1959

Military Assiganents:

U.S, Army Tropical Research Medical Laboratory ~ 1951-53

Civilian Assignments:

High School Teacher, Puerto Rico ~ 1950-51

ch Ausistant, University of Chicago - 1953-59

Microbiologist, Fort Detrick, Frederick, Maryland - 1960-63,

Chief , Microbiology Division, v. 8. A. Tr:

San Juan, Puerto Rico ~ 1963-65

cal Research,

Academic Appointments:

Associate Professor in Virology, University of Puerto Rico

1964 - 0 date

Lecturer in Biochemistry, University of Puerto Rico 1964-65

National Academy of Science, National Res. Council, Post

Doctoral Fellowship- 1959-60

Research Assistant, University of Chicago~ 1954-59

Memberships {n Societies, Professional Groups, and Organizations:

Sigma Xi Society- 1958 (Honor Society)

American Society for Microbiologists - 1958

Biophysical Society- 1963,

Tissue Culture Association- 1966

---Page Break---

2

Tesching

Agreement

Participate in the teaching of the following courses:

4, Medical Microbiology

Laboratory and lectures

b. Graduate Course

in Virology

Laboratory and Lecture

c. Graduate Course in Tissue Culture

Laboratory and Lecture

Problems of Investigation

a, Radiation activation of Latent virus in *Wolbachia* Arthropods

and Vertebrates.

b, Effect of Radiation on Interferon Production in Animals

and Tissue Culture

?The Microbiology of Infantile Diarrhea.

Miscellaneous studi

1, Changes Produced in the Intestinal Mucosa due to Viral and
Bacterial Infection in Pigs.

Research Gr

United States Atomic Energy Commission

Medical Sciences & Radiobiology Division \$40,000

Spectral Travel

2, The 68th Annual Meeting of the American Society for Microbiology

Detroit, Michigan May 5-9, 1968,

b, 1th Central American Congress for Microbiology

Panama City, Panama Dec 1-7, 1958

Spectal Conferences

4. Chatman of @ session

Bacteriology and Mycology. 11th Central American Congr

Panama City, Panama

>, Invited to partieipate in the Roundtable "Ecology of the Intestinal

Flora", in which the following work was presented : "The Virel

Etiology of Infantile Diarrhea in Puerto Rico.?

---Page Break---

©. Effect of Radtation on Coxsackie Virus Infection. Seminar

Presented at the University of Puerto Rico, Deparment of

Blology

4. Effect of Radiation on Viral Latency, seminar presented at the Nuclear Center, San Juan, Puerto Rico

Research Interests:

Intermediate metabolise biochemistry and genetics of petttacosis-lymphogranclona group of microorganism; mechanism of action of chemotherapeutic agents. Origin and source of infection muciele acid. Biochemistry and genetic of the arthropod-borne viruses.

Pathogenicity of enteric viruses,

Publications:

Approximately 32

---Page Break---

CURRICULUM vera

WME: Elvira Cueres de Colén

FRESE ADDRESS:

El Verde Field Station, Terrestrial Ecology Program,

Puerto Rico Nuclear Center, Route #186, fm. 19.3)

Blo Grande, Puerto Rico,

PLACE AND DATE OF BIRTH: August 20, 1950, Santurce, Puerto Rico

CIVIL STATUS: Married

PRESENT POSITION: Graduate Research Assistant, Terrestrial Ecology

Program, Puerto Nuclear Center, Rio Piedras,

Puerto Rico.

DEGREES: Bachelor in Science with Major in Biology, 1971.

EXPERIENCE)

2 years Teaching Assistant at University of Puerto Rico.

Department of Sociology, Rio Piedras, Puerto Rico (1970-72) «

Summer-1972, Div. of Solid Waste, Environmental Quality Board

Santurce, Puerto Rico.

July-1972 until present - Graduate Research Assistant, Puerto Rico

Nuclear Center, Terrestrial Ecology Program, Rio Piedras, Puerto Rico,

---Page Break---

4

CCURRICULIM VITAE

José Cuevas-ft

Senior Associate, Tropical AgrosSeiences Division, PRIC

Assistant Profescor (ad honoren), Horticulture Departnant, University
of Puerto Rico, Mayaguez

Education and Experience

1961 B.S. Agriculture, University of Puerto Rico, Mayaguez

1966 M.S. Biology, University of Puerto Rico, Mayaguez

1961-67 Research Assistant, Agricultural Blo-Sciences Division, PRNC

1967-7. Research Associate, Agricultural BioSciences Division, PRC

1968 to present, Assistant Professor (ad honore), Horticulture Department,
UPR, Mayaguez

1971 to present, Senior Associate, Tropical Agro-Sciences Division, PAIC

1967-68 Lecturer and Visiting Scientist during "Atoms in Action?"

Exhibits at Zouador and Guatemala

Publications

Fifteen scientific papers were published,

Professional and Honorary Societies Memberships

1. American Society of Agricultural Sciences

21 Caribbean Food Crops Society

4, Institute of Food Technologists

8. Gamma Sigma Delta

3. Colegio de Agrónomos de Puerto Rico

---Page Break---

8

?CURRICULUM VITAE

Delftn de LeSn-Dancel

I. Personal Statistics

Place and Date of Birth: Mantla, Philippines, April 8, 193%

Nationale

Filtpino

Relegion: Protestant (Baptist

Civil Status: Married

Wife: Aide luz Jiménez

Children: Marfa Aidelle, Jos# Ricardo, and Juan Carlos

addres

Calle Pegaso 749, Venus Gardens, Rfo Piedras, P.R.

Age: 39 years

Metghts: 5" 11"

TT, Education Background

1. Elementary School - F, G. Calderém, Manila, April 1968
2. High School - José Abad Santos High (8th honors), Mantla-April 1952
3. College - College of Veterinary Medicine, University of Phillipines,
April 1957, (0.24.9
- 4, Post-graduate - Texas A &M College System, August 30, 1960 - M. Se.

= Marvard School of Public Health, 1964-65 (Spectat

Student)

TIT. Employment Itstory

1, Instructor and Veterinarian, U. P.College of Agriculture

@ecenber 15, 1957 to October 33, 1962)

2, Assistant Parastiologist, University of Hewalt (Novenber 15, 1962

to Agust 16, 1963)

3. Post-Doctoral Fellow, School of Tropical Medicine, University of

Puerto Rico (September 1, 1963 to August 31, 1964)

4, Instructor, U. P. College of Veterinary Medicine, Diliaan,

Quezon City (tugust 26, 1965 to June 30, 1967)

---Page Break---

6

IV. Background in Professional Socketsies

1, Membership in Professional Societies

4, Gamma Signa Delta (Honor Sockety of Agriculture)

, Phi Sigma, Alpha Chi Chapter

American Society of Veterinary Parasitologists

4. American Veterinary Medical Association

V. Languages Spoken

1. Filipino (Tagalog)

English

3. Spanish

VE. Publications

Approximately 25

---Page Break---

2

CunRrCuLum viaae

8. N. Deshpande

Scientist I, Puerto Rico Nuclear Center

Associate Professor of Chemistry, University of Puerto Rico, Mayaguez

Education and Experience

1962 M.S. in Food Technology (with biochemistry and bacteriology as supporting fields), Purdue University

1964 Ph.D. in Food Technology (with chemistry and nucleonics as supporting fields), Purdue University

1964-66 Assistant Professor and Head of the Food Technology Department, Tuskegee Institute, Alabama

1965 Summer research participant at PRYC, sponsored by the Oak Ridge Institute of Nuclear Studies

1966-68 Associate Scientist 1, PRC

1967-68 Assistant Professor of Chemistry (ad honorem), UPR, Mayaguez

1968-69 Assistant Professor of Chemistry, UPR, Mayaguez

1968 to present, Scientist 1, PRC

1969 Research participation at the Max Planck Institute of Biochemistry, Munich, West Germany

1969 to present, Associate Professor of Chemistry, UPR, Mayaguez

1965-7. Scientific Consultant, T.C.A.1.7.1., Guatemala. Sponsored
by the Organization of American States, Washington, D.C.

Publications

Sixteen scientific papers were published.

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POST GRADUATE

XPERIENCE

CURRICULA VITAE

René Dietrich Ormachea, ¥.D.

La Paz, Bolivia - March 29, 1940

Tolosa 296, College Park, Rio Piedras, P. R. C0921

Nuclear Medtetre

Mariscal Braun, La Par, Bolivia 1947-1949

Sagrado Corazén, Sucre, Bolivia 1949-1952

Sagrado Corazén, Suere, Bolivia 1953-1957

San Calixto, La'Paz, Bolivia, 1957-1958

Universidad Mayor de San André:

Facultad de Medicina y Cirugt

Bolivia, 1959-1965

La Paz,

Physician-Surgeon, May 1966

Digestive system diseases course, La Paz, Bolivia, 1966

Endocrinology Course, La Paz, Bolivia, 1966

Basic Course of Radioisotopes Clinical Applications,
La Paz, Bolivia, 1966

Pediatrics actualization course, Jujuy, Argentina, 1967

Clinic Radiodiagnostic course, La Paz, Bolivia, 1968

XIT Course of Methodology and Medical Applications
of Radioisotopes (Institute of Atomic Energy and
Hospital of Clínicas, São Paulo, Brazil) 1990

under Atomic Energy Institute of Brazil sponsorship

Radioisotope Techniques Course and Clinical
Applications of Radioisotopes Courses, Puerto Rico

Nuclear Center, San Juan, Puerto Rico under the
International Atomic Energy Commission, Vienna,
Austria sponsorship, 1971

Ultrasound Scanning Course, Puerto Rico Nuclear center,
San Juan Puerto Rico, 1972

Pediatrics Nuclear Medicine Symposium, The Johns Hopkins Hospital, Baltimore, Maryland, U.S.A., 1972

E.C.P.T.G: Certificate, February, 1972

Puerto Rico Board of Medical Examiners, Commonwealth of Puerto Rico License, September 1973

Nuclear Cardiology Course, The Johns Hopkins Medical Institute, Baltimore, Maryland, U.S.A, 1973,

Nuclear Medicine

Assistant Medical Officer in the Nuclear Medicine Center, La Paz, Bolivia, February 1970 = May 1970

---Page Break---

Curriculum Vitae, René Dietrich Ormachea, M.D., page #2

PRESENTATIONS AT

SCIENTIFIC MEETINGS

MEDICAL SOCIETIES

MEMBERSHIP

Special Training in Nuclear Medicine at the
Hospital of Clinics and the Atomic Energy
Institute, San Pablo, Brazil, August ?
December, 1970

Special Training in Nuclear Medicine at the
Puerto Rico Nuclear Center, April 1971 to
June 1972

Setentist II, Clinical Applications Division,
Puerto Rico Nuclear Center, July 1972-present

Other Experience

General Staff of the armed Forces, La Paz,
Bolivia, from February 1961 to? June 1962

Department Assistant in Physiopathology in
the Universidad Mayor de San Andrés, from

March 1963 to November 1965,

Resident Physician in Yacimientos Petroliferos

Fiscales Bolivianos, from July 1966 to

January 1970,

?Two up to date

Nuclear Medicine Society

Puerto Rican Nuclear Medicine Society

Puerto Rico Chapter, American Heart Association

---Page Break---

mm

m.

w,

November 1973,

(CURRICULUM VITAE)

?George E. Drewy

CGRNERAL,

ome: George B. Drewry

Present: Position: Puerto Rico Nuclear Center

Place and Date of Birth Nasnvilie, Tennessee

Fetruary 10, 1935

Marita statu: Wire: Jutta R. Drowy

Children: Steven Drysa - torn 1%

Richard Kirk = "3964

ottice Adresse: Biomedical Suitaing

Puerto Rico Nuclear Center

Ceparra eights Station

San Juan, Puerto Rico 00935

Phono: Anes Code 304-767-0350 ext. P51

Home Address: Box 907

Rio Grande, PR, oo7hs

No Phone

spucAnTOn

B.S., June 1958, George Peabody College for Teachers, Nashville, Tennessee,
(major=Biology, minor-Physical Sciences).

M.S. August 1962, The University of Texas, Austin, Texas, (major-Zoology,
minor-Botany, Clark Pubs, major professor).

Ph.D. in progress, the University of Texas, Austin, Texas, (major-
Zoology, minor-Botany, Clark Pubs, major professor).

AWARDS, HONORS, AID SCHOLARSHIPS

Honorable Mention-Cetinhouse Science Talent Search, 1953

Five Undergraduate Scholarships for Tuition and Fees, 1959-1957

Beta Beta Beta, 1959

BEF Cooperative Graduate Fellowship, 1959-1960

two ISP Predoctoral Fellowships 1960-1962

PROFESSIONAL SOCIETIES

Tennessee Academy of Science - Junior Member

Texas Herpetological Society

Southwestern Association of Naturalists

---Page Break---

vr

vir.

at

American Society of Ichthyologists and Herpetologists

Biological Society of America

Association for Tropical Biology

The Society for the Study of Evolution

(CHRONOLOGICAL LISTING OF POSITIONS)

Teaching Assistant in Freshwater Biology Laboratory, University of Texas,

1957 - 1959

NSF Cooperative Fellow, University of Texas, 1959 - 1960

IGF Predoctoral Fellow, University of Texas, 1960 - 1962

Teaching Assistant in advanced mammalian physiology, 1962 - 1963

Technical Assistant in Radio Television, University of Texas, 1953

Research Associate, Puerto Rico Nuclear Center, 1963 - 1964

Associate Scientist I, Puerto Rico Nuclear Center 1964 - 1969

Scientist II, Puerto Rico Nuclear Center, 1969 to date

?TEACHING EXPERIENCE

Instructor in nature study, Peabody Demonstration School (7th grade), 1955.

Student teacher, in high school biology, Madison High, 1954.

Instructor (SP-4 and SP-5) in numerous shore courses, U.S. Army Reserve, including first aid, signal corps practice, and principles of operation and maintenance of single engine aircraft, 1955 - 1962.

?Two years teaching assistant (laboratory instructor) in mammalian biology at the University of Texas, 1962 - 1963.

One year teaching assistant (laboratory instructor) in advanced mammalian Physiology, University of Texas, 1962 - 1963.

?PUBLICATIONS

Approximately 19 to dste,

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Mage: itentnod K sbedhanst

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Buerto Feo Muclesr Center,

Blowesien? Building

ara Weights Station

San Jus, Pierto Rc0, 00935

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Present siivecs

Mane snd location ears ajor cteta

Universitat Tbingen 2950-57 ongante chemistry

Gereany)

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University Weincen 1985457 oes Hy Heimann

University of Chews 1997-59 be. W.C. Brom

Univereity of Akanens 1959-60 Dre Ae Pry

Payetteviie, Ak.

University of notre Dane

Notre Dave, Iniians 190462 Dr, Sst hel

Wetton Institut 1962-64 Independent

PLitebargh, Pa. Recearen

Techntcche Yooh 1965467 Independent

sede, thinish Besearen

Puerto ?eo Miclesr 1967 Independent,

center, san Becearch and

Perta? Rico ?Teacnin

: Hotdenhein/Brenz, Cemeny. Date of Birth: Dec. sth., 1930

Minor elds Degree ani date

Aiystes, Pe.0. 1957

Doshen! ery,

beta,

zoology

Fiesta of roseset,

Mannfch reset sons, synthe

Orem chemietey

Maalation chentstry

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Teotope tracer vork

Free ratical reactions, teotone

work, confomational snalyesc

Raliation chenictry, rhovochentetry,

free radical reactions

Railation chemistry

Ratiation chentstry,

free relied resotione, qunatun

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Curriculum vitae (M.K. Eberhardt) Page 2

Honorary appointments

University of Puerto Rico, Dept. of Chemistry - Ad honorem professor = 1971

University of Puerto Rico, School of Medicine - M honore professor = 1972

Teaching experience:

"Introduction to Radiation Chemistry" and "Introduction to Molecular orbital Theory"

Publication

Approximately 17 publications to date,

2/25/73

---Page Break---

(CURRICULIM VITAE

WWE: Alejo Estrada Pinto

PRESENT ADDRESS: Calle Julio Millén #3-11, Vieques Río Grande,
Río Grande, Puerto Rico.

PLACE AND DATE OF BIRTH: July 2, 1936, Río Grande, Puerto Rico,

LEVEL starve

Marrfea

PRESENT POSITION: Research Assistant TZ, Terrestrial Zoology Program,
Puerto Rico Nuclear Center, Río Meñas, Puerto Rico.

EXPERIENCE:

1955 - 1963 Field worker in the U.S. Forest Service

1963 to present : Terrestrial Zoology Program, Puerto Rico

Nuclear Center.

PUBLICATIONS:

1970 ~ Phenological Studies of Trees at El Verde, Chapter D-2b

in A Tropical Rain Forest, #.7. Odum, Editor, AEC Div. of

Technical Information.

A910 - Forest Recovery Following Gama Irradiation, with George
E, Drewry, Porto Rico Iticlear Center, Terrestrial Eeology
Frogras. Ann. Rep.

---Page Break---

Born

Educated :

?Taughe

Service

Positions

Research,

awards

Chetraanships ?:

Publications

Consultations:

[Ad Honoren

?cuaRICULUM VITAE

E

+ Ferguson

July 7, 1908-Knoxville, Tennessee

University Tennessee-B.A. 1932; M.S. 1934 Unv.

Virginia; Ph. D, 1938-Hrv. Virginia

Biology and Parasitology-College of William and

Mary, 1961-64; Univ. Washington 1948-50,

U.S. Public Health Commissioned Officer for 30 years

Scientist Category -Rank 0-6, Captain (Ret.)

Research Staff, Center for Disease Control, Ecologies
Investigations Program; Chief, Tropical Disease Laboratory
1954-71; Special Assistant to Director, EP

1972, Acting Head, Medical Sciences & Radiobiology, PRNC, 1973

Ecology and taxonomy of platyhelminths and Planorbidae; Insecticides of control of arthropod disease vectors; Biocontrol of bilharzia snail vectors

Du Pont Scholarship in Biology; Lease Conz#ler
Martinez; Silver Beaver (ISA)

Executive Secretary, P, R. Committee for Bilharzia
Control; Caribbean Committee for Bilharzia Research

Approximately 150 from 1934-73

Foreign governments and international agencies (e.g.,
42D, Smithsonian Inst.) on biology and control of
Schistosomiasis

Department of Medical Zoology; Department of Public
Health, University of Puerto Rico

---Page Break---

CURRICULEM VITAE

José A. Peverckione

Senior Scientist, Tropical Cereals Division, PAC

Professor of Biology, University of Puerto Rico in Mayaguez

Education and Experience

B.S. 3.5, (Agriculture) University of Puerto Rico, Mayaguez

1947 Assistant Plant Geneticist

Agriculture, Mayaguez

Institute of Zoology

1963 M.S. (Genetics), Missouri University

1964-65 Assistant Professor, Biology Department, UPR, Mayaguez

1966,

1967-68 Research Assistant, Missouri University

1965-67 Assistant Professor, Biology Department, UPR, Mayaguez

1967 Radioisotope Techniques Institute, ORNL, Tennessee

1968-69 Postdoc (Genetics), Louisiana State University

1968-69 Health Physics Training. ORNL, Tennessee

1969-70 Chief Scientist and Head, Health Physics Division, Puerto

Ricardo Tuctear Center, Mayaguez

1970 to present, Professor, Biology Department, UPR, Mayaguez

1965 to present, Senior Scientist, Tropical Agro-Sciences Division,

RIC, Mayaguez

1965 to present Nonmember Advisory Committee to the Puerto Rico Radiation

Protection Board.

Publications:

ten

scientific papers were published,

---Page Break---

Name

Date of Birth

Academic rank

Degrees

Service on Faculty

Other experience

Consulting work

2?

Gileasl, Aviva ?.

25 Novemver 1917

Full Professor, Full Time

Ph. D. Physics, 19M1 = "Péamany Péter" Univ.

Budapest, Hungary

Seu Nuc. Eng. Dept. 1960 = Univ. of Michigan,

Ann Arbor, Wichigen

9 years

Septenber 1952 = october 1955, Teacher of

Hothenatics, Physics and chemistry ~ Givath

Hoshlosa High School, Givath Haslosna, israel.

Septenber 1959 Septenber 1961, Graduate Student

Nuclear Engineer ing Department, University of

Michigan, Ana Arbor, Richigen

October 1955 - Novanber 1963, Senior Lecturer,
Technion Isree! Institute of Technology, Hol fa
Irae!

Novenber 1963 = Deconber 1964, Reactor Physicist
Puerto Rico Water Resources Authority, Rincon.

Decenber 1964 ~ June 1967, Associate Professor,
University of Puerto Rico, Mayaguee Campus,
Mayaguez. P. R. Department of hue. Engineering,
Chief Scientist, Puerto Rico Auclear Zenter

June 1967 = Present, Professor, Nuc. Eng.
Department, Univ. of Puerto Ricoy hay

ty Diractor of N, E, Dept. Raye

Chief Scientist, Puerto Rico Nuclear

Chief Engineer, Division, Deputy Division Heads

Summer 1968 = Visiting Scientist, Brookhaven

National Laboratory, Office of Theoretical Reactor

Physics.

January 1 = June 30, 1970, Visiting Scientist

Courant Institute of Mathematical Sciences,

New York University,

July 1970 = June 1971, Acting Manager, Nuclear Engineering Dept. UPE

Panel

---Page Break---

States in which registered

Membership in scientific
and professional societies

Honors a

ards

Subjects of courses taught
this year

Other assigned duties

Programs participated in, to
Improve competence as teacher

Publications

ANS, American Nuclear Society

None

ENR 621 Reactor Theory 3 credits

ENR 699 Research 53 Grad. Students

Comité de Asuntos Académicos"2 college of

Comité de Asuntos, Engineering

Visiting Scientist: Brookhaven National Lab

1968 Summer

Visiting Scientist: Courant Institute of

Mathematical Sciences until Jun,30,1970

Selected as Participant in Kautequa Type Short

Course det. 23-30, 1973.

Approximately 15 to 4

---Page Break---

Name: Michael Gilesat

Place and Date of Birth: Foland, May 22, 1911,

civil status: Married, two children

Home Address: P.O. Box 3242, Mayaguez, PR. 00708

Education Background:

Completed the College of X-Ray Technicians at Beilinson Hospital,

Petach Tiqua, Israel, 195:

B.A, Humanities, 1967, university of Puerto Rico, Mayaguez Campus,

M.Sc. Sanitary Sciences, 1969, University of Puerto Rico, School of Public

Wealth, San Juan, P.R,

Professional Experiences:

Institution

1948-1959 X-Ray Technician, Dept. of
Neurosurgery Petach Tiqua, Terael

3960-1961 X-Ray Technician, University University of Michigan,
Medical Center X-Ray Dept, Ann Arbor, Michigan

1961-1963 chief X-Ray Technician Clinic of General sick

Pund, Waifa, Israel

1964-present Scientiat 1; Head of
Yoint Radiation Survey Project Puerto Rico Nuclear Center,

Societies Health Physics Society of Puerto Rico

Hoalth Physics Society (National)

Averican Public Health Aesoctation

World Association of Consosere

Research Activité Evaluation of verth Harards Associated with
X-Ray Diagnesis in Puerto Reo,

Phantoa andi vivo dosinecry.

Publications: 18 publications

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PLACE OF BITTE

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?7 CITIRENSHIP

ELENENTAY scHoot,

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POSTGRADUATE courses

EXPERIENCE

Julio A. Gonzalez-Cossio

Box 5051, College Station

Mayaguez, Puerto Rico

Lugo, Spain

Escuela I. Almazan, Madrid, Spain

Graduated - June 1947

Instituto Tecnológico Superior,

Madrid, Spain

Graduated - June 1958

University of Murcia, Faculty of Physical

Selences

Licentiate, (Theoretical Physics) -

September, 1959,

Ph.Ds, High Honors, (So1sd State) =

January, 1962

"Winter Institute in ouantun chemistry

nd Seite State Phyeice", University

Of Gaineviile, Fla. - Decenber 1962,

Sanuary 1963,

4 one-senester course on "Solié State

Physics" by Dr. By Cy Frazer, Senior

Scientist in the leutren Diffrectien

Propran in Freckhaven hetional Laborator.

Mayaguer-tanuacy-May 1563.

September 20. Assistant
Professor (Part-time) in the University
of Sainnonca, Salansnes, Spains

---Page Break---

PROFESSIONAL,
SOCIETIES

PUBLICATIONS:

a

Research Collaborator, Neutron
Diffraction Group, Brookhaven
National Laboratory (1969-64),

Assistant Professor (1962-65),

Associate Professor (1965).

Physics Department, University
of Puerto Rico, Mayaguez, P.R.

Research Associate (1962-65),

Associate Scientist (1965-67),

Scientist (1967-68)

Senior Scientist (1969-

Puerto Rico Nuclear Center

(U.S. Atomic Energy Commission)

Mayaguez, Puerto Rico

Acting Head (1966-68),

Head (1968-)

Nuclear Science Division

American Physical Society

Asociación de Maestros de Ciencia
de Puerto Rico.

Asociación Nacional de Fisicos de
España.

Approximately 23,

---Page Break---

Curriculum Vitae

MORTIMER I. KAY

Born - August 27, 1930 - Brooklyn, New York

Status - Married - 1 child

University Education -

B.A. (Chemistry) Brooklyn College, New York - 1952

M.S. (Phys. Chem.) Purdue University = 1953

Ph. B, (Phys. Chem.) University of Connecticut - 1957

Experience

Grad. Assistant, Purdue University (1952-53)

Grad. Assistant, University of Connecticut (1953-56)

Research Assistant in Crystallography, University of Connecticut
(1956-57)

Research Associate and Visiting Associate Physicist, Penn. State

University and Brookhaven National Lab2 (1957-59)

Post-Doctoral Fellowship, Royal Norwegian Council for Scientific
and Industrial Research, Institute for Atomic Energy, Kjeller,
Norway (1959-60)

Solid State Physicist (Crystallographer), NASA, (1960-62).

Research Associate Professor of Chemistry, Engineering Experiment
Station, Georgia Institute of Technology (1962-64)

Head, Neutron Diffraction Program, Puerto Rico Nuclear Center
(1966 to date)

Societies

American Crystallographic Assn.

American Physical Society

American Chemical Society

Sigma Xi

American Association for the Advancement of Science

Publications

~About 50 publications.

---Page Break---

cuRRicyum vitae

Seppo E. Kolehaainen

Bcologtat

Scfentist TL, Head of Marine Biology Progr:

Puerto Rico Nuclear Center

Bech February 28, 1939, Espoo, Pintand

Nattonality: Citizen of Finland, permanent resident in U.S.A.

EDUCATIONAL nACKoROUND:

Bs University of Helsinkt, Helsinkt, Pinland, 1963

Major: Zoology

M.S, University of Heletokt, Helsinkt, Finland, 1966

Majors: Zoology and Limnology

Ph. Lic. University of Releinki, Heleink!, Finlande, 1967

Major: Ecology

Ph.D. University of Tennessee, 1969

Major: Ecology,

SUTERE REGSSECH participant in the Department of Radiochemistry

At the University of Helsinki, 196).

Predoctoral Research Fellow of the Finnish Atomic Energy

Research Institute, the Department of Radiochemistry at the University

of Helsinki, 1964-67.

Predoctoral Research Fellow of the Finnish AEC in Radiation

Research Section at Oak Ridge National Laboratory and the

University of Tennessee,

Assistant Professor, in the Department of Zoology at the University
of Tennessee, 1968-69,

at Puerto Rico Nuclear

Scientist 11 in Jobs Bay Program at Puerto Rico Nuclear
center, 1972

---Page Break---

MBE 5.AL.X PROFESSIONAL ORGANIZATIONS:

Research Board of Canada

Health Physice Society

National Geographic Sectety

LABORATORIES VISETEE

Radioecological and Oceanographic Laboratories in the
UiS.hc, Canada, France, Finland, Germany, Monaco and
Sueden,

PARTICIPATIONS

SPECIAL PROGRAMS:

Sejentific cruises:

From california to Puerto Xico in April, May, 1971.

Collected fish and plankton samples for trace element
analysts.

From Hawatt to Bikini Atoll, Marshall Islands in Septenber =
Novenber, 1972. in charge of the sampling of biological
samples for transurantum analyses.

Saturacion diving:

Participated in the Puerto Rico International Undersea
Laboratory In Puerto Rico, December 1972. Spent two weeks
at 35" studying populations of ascidians on a reef and
Collecting sedimento and plankton samples for trace element
analyses.

PUBLICATT

?Approximately 25 to ante.

---Page Break---

(CURRICULAM VzTAE

Francis K. 8, Koo

Senior Scientist and Head, Tropical Agro-Sciences Division, Puerto Rico

Nuclear Center

Professor of Biology (Ad Konoren)

Professor of Agronomy, University of Puerto Rico

Education and Experience

1950 Ph.D. in Plant Genetics, University of Minnesota

1950-51 Research Assistant, Department of Agronomy and Plant Pathology,
University of Minnesota,

1951-53 Research Fellow, University of Minnesota,

1953-61 Project Leader, Oats and Hay Improvement, University of
Minnesota. (Breeder of two oat varieties, Minlané and
Minhafer, released in Minnesota)

1961-67 Associate Scientist II, Agricultural Biosciences Division,
Puerto Rico Nuclear Center

1961 to present, Professor of Biology, (ad honorem), University of
Puerto Rico

1966-67 Visiting Professor, National Taiwan University, Taiwan

1967-68 Chief Scientist, Agricultural Biosciences Division, Puerto Rico

Rico Nuclear center

2968 to present, Senior Scientist and lead, Tropical Agro-Sciences

Division, Puerto Rico Nuclear Center

1972 to present, Prof

OF Of Agronomy, University of Puerto Rico

Publications

Sone 30 scientific papers and over two dozent of abstracts, short notes,

eeports, etc. in the field of genetics, cytogenetics, radiobiology, etc.

were published.

Professional society Memberships

1. Genetic Sootety of Anezica

Radiation Research Society

Honorary Society Konberehipe

1. Sigma Xi Society

2. Gamma Sigma Delta

3+ American Association for the Advancement of Science

---Page Break---

ALDO E. LANARO, M.D.

BORN

currrensare

HOME ADDRESS

TELEPHONE

activity

EDUCATION

Licenses

CURRICULUM VITAE

Director, Clinical Applications Division

Chief Scientist 1, Puerto Rico Nuclear Center

Buenos Aires, Argentina = January 29, 1920

Naturalized U. S. citizen

condoninto Palma Real

Mateid 2, wiranar,

apt. &

wnturce, Puerto Rico 00507

722-6158

Nuclear Medicine - Endocrinology

Teacher, Normal Course, 1937

Bachelor Degree (Equivalent to Mégh School), 1938

Normal Professor in Sciences, 1940

Physician, School of Medicine, University of

Buenos Aires, Argentina, 1949

Medicine Doctor, University of Buenos Aires, 1950

Argentine School of Medicine, University of

Buenos Aires, Lic. #11,300 ~ 1948

Puerto Rico Board of Medical Examiners, Commonwealth

Puerto Rico, Lic. #3744. - 1972

American Board of Nuclear Medicine - March 25, 1972

Post-graduate

Post-graduate course:

Buenos Aires, Argentina:

at the University of Buenos

Endocrinology, 1951-52

Gynecological Therapeutics, 1950

Practical Gysecology, 1981

Preparatory Course on College Teaching, 1952-53,

Advanced course on Endocr inolosy, 1952

Course on Peditrie Endocrinology, 1953

Advanced course on Endocrinology, 1953

Treorteal and Practical Course on Diagnosis

?and Treatment of Suprarenal Diseases, 1953

Diagnostic in oynseolaay, 1954

Graduate training in Biophysics Teaching

Peycoanalysis Course, 1956

Basie Course on Clinical Apelicattons of Radio~

fsotopes, Arjostine Atomic Freegy Comission,

1957

Basie Radivisotop:s Techniques Course, and

Basic Clinical Applications of Radiosotopes

Course, Puerto Rico Nuclear Center, 1959,

under World Health Organization Sponsorship.

1956-56

---Page Break---

Curriculum Vitae, Aldo E. Lanaro, M.D., page #2

a

Visit to several nuclear facilities in the USA,

1959, as part of the World Health Organization

training program.

EXPERIENCE Nuclear Medicine

In charge of the Radioisotopes Department of the
Research Medical Center at the Tornd Hospital,
Buenos Aires, Argentina, 1954-60

Director of the Radioisotopes Department of the
Endocrinology and Metabolism Hospital, 1957-63

In charge of the Radioisotopes Department at the
Argentinian Institute of Diagnosis and Treatment,
1959-61

Associate Scientist II, Clinical Applications
Division, Puerto Rico Nuclear Center, 1963-67

Courtesy Mosber, Nuclear Medicine
Martinez Onecologie Hospital,

2.consatex

969

Chief Scientist and Deputy Director, Clinical
Applications of Radioisotopes Division, Puerto
Rico Nuclear Center, 1967-69

Chief Scientist and Acting Director, Clinical
Applications of Radioisotopes Division,
Puerto Rico Nuclear Center, 1969-71

Chief Scientist and Director, Clinical Appli-
cations Division, Puerto Rico Nuclear Center,
1971-present

Courtesy Member in Nuclear Medicine, Hospital
Meléndez, Bayanúa, Puerto Rico, 1972

Courtesy Member in Radiology, Hospital
Wospieal, 1972,

Other Professional Experience

Endocrinologist at the Endocrinology and Metabolism
Hospital, 1937-63, Buenos Aires, Argentina

Medical Practitioner at the Hospital Las Heras,

Buenos Aires, Argentina, 1947-50

Attending Doctor at the Tealian Hospital, Buenos

Aires, Argentina, 1949-52

Attending in Medicine, Argentine Air Force Health

Department, 1950-60

Assistant Doctor at the National Endocrinology.

Institute, Buenos Aires, Argentina, 1952-57

---Page Break---

Curriculum Vitae, Aldo E, Lanaro, 4.0.

PUBLICATIONS

[PRESENTATIONS AT.

SCIENTIFIC MEETINGS

Medical societies

MEMBERSHIP,

page #9

Assoctate Clinte in Medicine (Ad Honoren)

Medical Department of che School of Medicine,
University of Puerto Rico, 1966

Assistant, University Hospital, 1968

Clinical Assistant Professor of Medicine, Medicine
Department, School of Medicine. (Ad Honoren)

University of Puerto Rico, 1973

Secretary-taitor of the "Endocrinology and
?Metabolism Howpital? Bulletin, 1962-63

Mesber of the Organizing Committce of the
?Argentinian Socicty of Nvclear Medicine, 1963

Wonorary President of che Argentints
?of Nuclear Medicine, 1953

Society

Honorary Member of the Peruvian Society of Biology

and Nuclear Medicine, 1966

Chairman, Nuclear Medicine Committee, X Inter-

American Congress of Radiology, 1971

Member of the Organizing Committee of the Nuclear

Medicine Society of Puerto Rico, 1972

President, Nuclear Medicine Society, Puerto Rico,

1971

Sub-Treasurer of the ALASHIMGI (Asociación Latino-

Americana de Sociedades de Biología y Medicina

Nuclear) November 24, 1972

Member of the Editorial Consulting Board, Revista

de Biología y Medicina Nuclear (Asociación Latino-

Americana de Sociedades de Biología y Medicina

Nuclear Publication), 1972

Approximately 14 to date

Approximately 27 0 date

Argentine Medical Association, Argentinian Society
of Endocrinology and Metabolism, Argentinian Society
of Biology and Nuclear Medicine, Puerto Rico Chapter
Wealth Physics Society, Puerto Rican Society of
Nuclear Medicine, AMS) Health Physics Society,
Peruvian. Society of Biology and Nuclear Medicine
(Honorary Member), Society of Nuclear Medicine,
American Nuclear Society.

---Page Break---

?CURRICULUM VITAE

Rupert A. Lee

January 21, 1932

Pin. Diamond, Denerara, Guyana

High School Education

Central High School, Guyana (1944-47)

?Queen's College, Guyana (1947-1951)

Present Status

U.S, Citizen and Married.

Degrees

B.Sc. 2nd class Hons, University of the West Indies, 1954

M.Sc. Chemistry, University College, London, 1959,

Ph.D Chemistry, University of London, 1967

Academic Experience

Science Master, Queen's College, 1954-1957 and 1959-1961.

Graduate Student, University of London, 1957-1959,

Graduate Teaching Assistant, University of Alberta, 1961-1962.

National Research Council of Canada studentship, 1962-1963.

Chemistry Master, Trinity College, 1963-1965.

Part-time Lecturer in Chemistry, University of the West Indies,

Trinidad, 1964-1965,

Research Associate PRNC and Assistant Professor of Chemistry, UPR,
1965-1967.

Scientist PRNC and Associate Professor of Chemistry, 1967 to date

Research Experience

Worked in the field of gas kinetics on the "Pyrolysis of Ethyl Iodide" under the supervision of Prof. Allan Maccoll, University College, London, (1957-1959).

Also in the field of Radiation Chemistry on the "Radiolysis of Hydrogen Halides" under Prof. D. & Armstrong, University of Calgary, (1961-1963) .

Spent 3 summer at Sloan Kettering Institute for Cancer Research working on "Radiation Protective Studies Using ^{52}Fe " with Dr. Ivo Puttman (1969).

---Page Break---

Spent 3 summer at University Chemical Laboratory Cambridge, England with Prof. Jack Lewis (study the radiation effects on some transition metal carbonyls).

Present interests are (1) Radiation Chemistry of Gaseous Organic Fluorides, (2) Radiolysis of Organic Sulfur Compounds in Aqueous

Solutions, (3) Radiation Protection Studies Using ESR.

Societ

American & British Chemical Societies

Foreign Language

Read French, German and Spanish

ications

Approximately 14

---Page Break---

51

?CURRICULUM VITAE

Felix Liard-Bertta

1, Born : October 14, 1937 - Rio Piedras, Puerto Rico

2 Selentist Associate I, Puerto Rico Nuclear Center, Rio Piedras, P. Re

3. Desres

1942-1955 Elementary, Junior, High School ~ Rio Piedras Public school!

1955-1959 Bachelor in General Sciences, University of Puerto Rico

1959 Commission of Second Lieutenant - R. O. T. C,

University of Puerto Rico

1959-1963 School of Medicine, University of Puerto Rico

No degree was obtained.

1964 Course in Radioisotopes techniques, Puerto Rico Nuclear Center

1970 Graduate School , School of Medicine, University of Puerto &

AF present completing the requirements for a Ph. D. in Veterinary

Zoology.

1973 Tutorial Course in Electron Microscopy = University of Chicago

4. Experience:

1968- Present professor of General Biology, Department of Biology,

College of Natural Sciences, University of Puerto Rico

1973 Present, Lectures in Medical Zoology at the School of Medicine,

University of Puerto Rico.

Lectures in Medical Zoology and Electron Microscopy at the
Puerto Rico Nuclear Center.

Publications: Approximately 5

---Page Break---

(CURRICULUM VITAE

wtetor

Lopez

Education:

San Germán Polytechnic Institute, 2 years, no degree.

Specialized courses in aerobiology at Comunal Disease

Center, Atlanta, Ga., National Institutes of He:

ch and Armed Forces

Institute of Pathology.

Experiene

Adotnistration of anteal services, PRNC 1967, Schistoso-

is Project, PRNC-1971 to date.

T. crush Project PRNC, 1966 to 1971.

Chief Bactertologist-U.S.A. Tropical Research Medical Laboratory,

Juan, P. Re, 1959-66,

Microbsologist, U.S.A. Experimental Medicine, Fort Detrick, Mé.

Received award for meritorious service to the Army Research Progran

in defensive aspects of biological warfare, 1954-1959,

Microbiologist, U.S.A. Tropic Research Medical Laboratory,
San Juan, P. R., 1947-54,

Chief Laboratory Technician, U. S.A. Hospital, San Juan, P.

1906-47.

Laboratory Technician, U.S. A. Hospital, San Juan, P. R.,

1941-44,

[As coauthor - approximately 10

Presentations = as Co-author - approximately 25

"as author - approximately 6

---Page Break---

(CURRICULUM VITAE

name: Frank George Lowman

Education and Expertise

1956 - Ph.D.-University of Washington, Seattle.

1948-1954 -

Research Assistant Laboratory of Radiation Biology, University of
Washington

1954-1959 ~

Research Assistant Professor, Laboratory of Radiation Biology,
University of Washington

1959-1961 -

Research Associate Professor. Electron microscopy, X-Ray diffraction,
and terrestrial and marine radiation biology, University of
Washington.

1961-1965 ~

Chief Scientist 11, Puerto Rico Nuclear Center, Professor of Biology,
ANL, Mayaguez, Puerto Rico.

1965-1973 -

Head, Radioecology Division, PRNC, Mayaguez, P. R.

1971- to present -

Associate Director for Environmental Sciences, PRNC, Mayaguez

1973 to present ~

?Associate Director, Puerto Rico Nuclear Center

Publications:

About 40 publications.

---Page Break---

Curriculum Vitae

RASTKO @. MAGLTC

Born: 7 January 1933, Sombor Yugoslavia

Marriage Stetuo: Married, two children

University Education:

Ing = degree (E.E.) University of Belgrade, Yugoslavia
(1958).

M.Sc. in Physics, Unty, of Belgrade, Yugoslavi

Pb.D, in Physics, ¥,

Expertise

Research in Neutron Physics, Institute for Nuclear
Sciences, Belgrade, Yugoslavia (1958-9).

Group leader, Neutron Time-of-Flight Spectroscopy
Institute for NeSc., Belgrade (1959-63),

Assistant Professor in E.B., Belgrade, (1960-63).

Graduate Assistant, Physics Dept., M.I.T. (1963-69).

Post-Doctoral Fellow in Material So. Division, Argonne
National Laboratory, Argonne, Ill. (1969-72).

Assistant Professor in Physics, U.P.R., Mayaguez and
part time research at P.R.N.C., Mayaguez (1972-3).

363).

T., Cambridge, Massachusetts,

Soe

Americal Physical Society

American Association of Physiciste,

Publications:

?About fifteen publications,

---Page Break---

November 14, 1973,

6

(CURRICULUM VITAE

VICTOR A. MARCIAL, M.D.

Born

Field

Education

Specialty Training

Experience:

Other:

Publications:

Son Juan, Puerto Rico = February 24, 1924

Radiotherapy and Cancer

S. University of Puerto Rico, Ro Pedras, Puerto Rico, May 1944

M.D. Harvard Medical School, Harvard University, Boston, Mass

June 1949.

Member National Board of Medical Examiners, July 1950

Member Puerto Rico Board of Medical Examiners, September 1954

Certified by American Board of Radiology (Radiation Therapy),

May 1955.

Internship ~ Sayamcn District Hospital, San Jon, Puerto Rico, 1949-50

Resident in Radiation Therapy ~ Penvore Cancer Hospital, 1951-53,

Fellow (American Cancer Society) in Radiation Therapy,, July 1953 to

August 1954 at European institutions (Curie Foundation, Paris; Christie

Hospital, Manchester; Radismhemmet, Stockholm; Radium Station, Copen=

hagen; and Royal Marsden, London).

Resident in Radiation Therapy~1954-55 (Surgical Pathology - & months at

Washington University, St. Louis; and Radiation Therapy ~ 6 months at

Tumor Institute, Seattle, Washington) -

Attending in Radiation Therapy, 1. Gonzalez Moritz Hospital,
October 1955 to June 1973.

Chief, Radiation Therapy Department, 1. Gonzalez Martine Hospital,
November 1958 to September 1971,

Director, Radiotherapy and Cancer Division, Puerto Rico Nuclear Center,
July 1958 to date «

Associate Director for Medical Programs, Puerto Rico Nuclear Center,
January 1967 to date »

Director, Cancer Control Program, Puerto Rico Department of Health,
October 1955 to June 1965.

Professor and Chief of Division of Radiation Therapy, University of
Puerto Rico School of Medicine, 1958 to date

Member, Committee for Radiation Therapy Studies, 1963-69

?Member, Concer Commission, American College of Rodiology

President Elect, Tenth Interamerican Congress of Rediology

Fomer President, Radiological Society of Puerto Rico

Secretary forthe Americas ofthe International Club of Rediotherapiss

Counselor for Puero Rico ofthe Radiological Society of North America

President-Elect of the American Redium Society

sity of

Approximately 34 to dote

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oh ARCULOM Vitae

Tourlas vartin

Ta aupunt 1947 Place: Idabel, Oklahoma

2 vary Zrazces (Henpatebeck)

@rou: 1, are It

School: Gonzales Itph School, Gonzales , tn

1964 ?Loulniana State University, saton?oure

Wajor: Zoolory Winer! ?chemi=try

The University of Texas, suetin

2oclory Minor: seolory

Thesia: Onmotic hoc? survival ir certain eyprinodont fishes

£1268 The University of Teeas, Auatin

Kasor: /eolory Minor: sotany

Diagortation: Some factors influencing penetration inte rivers

by ftushee a? the senta Cyprinagor

Job Zeper! ence:

1963 Cherteal analyst

OlineRevere Hatala Corps, Burnside, Las

1064 Field asaietant, Dr. Dark subba: The univeraity of Tex

1066-F Teaching againtant, Somparitive Anatomy, Freshmen Biolory,

Vertesrate 2olorv The Dniveraity of texas

168-71 Assistant Professor, Assistant Di

Stations, Director of the Arctic Rem

University, Burlington

Taught

Teaching: introductory Biology - nonna sors

1 semester: Teaching = graduate level

2 semesters, 1 semester? Wetland and the Environment - @ junior

Senior level course in ecology for nonmajors

1071=Preser:

Nuclear

Director of Biological

Science Unit: Indiana

ner,

Lontigt: Tadioecolory ?ivinton, Puerto Roo

vayaeure, Fuerte Aico

Publications:

Approximately 17 to date,

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7

CURRICULIM VISE - STEIN G. IEE

Stemen.ç. Mrtic, Us Merted. Tiree children, Ror: loreser 2, 1940,
Oteeae, Washington, Uke

EDUCATION

?genoeed Bogree Your conterzed

Untveratty of Washington bas. 1983

Untversity of Washington ns. 1965

University of ashington Pv, an

Mepis titles: ?Environmental factors influencing the migration of
Chinock salmon (*Oncerhynchus teyntvtacha*) tanto the hone etree coe
Viroment, (H.5.), and "An analyate of the histopathologic offerte
Gi Senger, sultave oa the Aatatic freamater clas, Carsicele fictites
Jouter", (Ph.D.). Dr. Allert K. Sperka Gnd Dr. sesneth Ee Come
Yajor professors

HOW

Stera Xt Associate, 1964

Federal water Quility Ainintetration, Research traineeship, 1968

wagon resench Leesars

Invertebrate aquiculture, mivtroneatal sapact studtes, Pathology

HESEACH AND PROFESSIOWL RōTAIECE

Year Title and Deseript ton

agre-73 Scientist 1, Puerto Rico tuclear Center, shyagues, Puerto

Rico. Duties: Benthic invortetyate surrey of potential

Bower plant cites; thngrove oyster stulies related te

oboe Bay orosect, tnvelving population vstisation God

heat tolerance etidies vith adults aad terme,

agn-2 Shelifish viologist, Seall Trites Organtzation of vestern

Wesbington, Inc., Feseral wy, Washtneton; Research folving

the establicment of shelacish aquaculture prograns in resere

vation intertidal areas, Exec. Dirt les Rey 8. Groroe sen

ayn Gensultant for above orpintzation, Snvolving wa aquaculture

fenasbility ctudy of selecved Indian-cvned intertidal tend

tn Puget Sound, Maahington,

---Page Break---

Jer

ast

1961-10

1966-67

1965-66

1963-65

?Title and Deserption

Consultant for Botse-Cascade Properties, Tne., involving
fan exteaotve intertidal survey of she predosinant mucron
fausa. Chief congultent! Dr. Kenneth Ke Chev.

Research angocinte, Untveraity of Washington, College of
Fisherieo; Federat ater Quality Aiminigratration Trainkng
Grant; Water Use Eeology; Advioor: Dr. George W. Brow, dk

Research biologist, (Rayonier, Inc.) Brvtraamect Coa
tol Division, Shelton, Washingt in. Duties involved:

2) ?eupervieton of oceanographic f1el4 surveys concerned

vith evaluating bMologicn, chentcal, en? phyeteal pare
etera of eatunries receiving pulping effluent nd 2)son-
Gucting torietty Posssaye vith various effiveat types £0
Geterraine their degree of toxicity 29 indigeaoue tenes

ibd certain invertebrates. Research we ayectficelly design
(0d to eusist coopany sonegenent in formulatiog policy
Gectasonn. Colef actentiat: Me. Roper ollefasn,

Revearch age! stant, University of Hebtngton, Devartoeat
of Civil Engioeerings Ceeen lake Water Gusitty) Guper=

Visor! Dr. Fey T. deleety

Reoearch sostetant, University of wnobington, Collage of
Fisheries; Gelactive gelnoa breeding srosren) Superviscr:

Drs hx Hate

TRCENG EERTENCE

1962-70

ron-t2

Clessroos and Inboratory lectures tn histology, pathology,
sand parasitology for College of Fisheries, University of
WanIngtoo, Fish and Shellfish Diseases course,

Classroom and leboratory lectures tn the folloving fish
fries courses, College of Pisteries, Univeresty of Wsb-
Angton:

Invertebrate pathology

Research techniques in shellfish biology

Stress Management and Pollution

Seminars with student groups from several Washington
state colleges and community colleges related to Indian
fish and shellfish aquaculture programs.

SOCIETY OF SHELLFISHERS

Society of Invertebrate Pathology

American Society of Limnology and Oceanography

Montana Shellfish Association

American Fisheries Society

Pacific Fisheries Society

Sport Fishing Institute

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Undervater photog" phy

Profeasionsl typiet

K. Sparks, Director, Naticol Marine Fisheries sévice,

Gulf Coastei Fisheries Center, 4700 Avenue U, Galveston, Tema T7550,

2. Dr. Michael C. Mix, Departoest of General Biology, Oregon State Unt-
versity, Corvallis, Oregon.

3+ Dr, David DesVotgne, Environmental Acfaire Departaant, Port of Seattle,
Seattle, Weshingtos, 95111.

4. Dr, Keaneth K. Chev, College of Fisheries, Untvereity of Washington,
Seattle, Washington, 96195.

5. Me. deoes Fraser, Head, Fisheries Research Departaent, Sal Tribes

Organization of Western Washington, Inc., 33304 Pacific Highway South,
Federal Way, Washington, 98003.

6. Dr. George W. Brom, Jr., College of Fisheries, University of Wash-
ington, Seattle, Washington, 98195.

HOME ADDRESS

Puerto Rico Nuclear Center

College Station

Mayaguez, Puerto Rico 00708

PUBLICATIONS

. Approximately 6 to date,

---Page Break---

HELEN 40

Master Degree in Biology specialize in Bacteria (1970)

Previous work experience

Le

Lipid Biochemistry lab research work in Dept.
of Biochemistry & Biophysics. Texae A &

Univ., College Station, Texas 1971 ~ 1972
uicrobiology lad. teaching assistant in

Dept. of Biology, Sam Houston State Univ.,

Hunteville, Texas 1968 - 1969

General Zoology 1ab teaching assistant in
Dept. of Biology. Sas Houston State Unive,
Hunteville, Texas 1967 ~ 1968.

---Page Break---

a

Manes Des Tin Ho

Date of Birthr August 2, 1938

Country of Births Bure

Country of Permanent Residences

Ske

Marital Status Married one child

Bducattont

Phd. Chontatry (Radtochonistry and Chomteal Ooceanography), Texas

AGM Untvorssty 1u7L

M. 3. Chontatry (livelear and Raddochonistry), University of

Arkansas 1963,

B. So» HOUS. Chentstry, Rangoon University 1960.

M.S. Thesis: Yields of Zirconium Isotopes from Spontaneous and 2h Mov

Weutron Induced Fission of Uraniunee3e

Ph.D. Dissortation: Urantur Concentrations 4n Marine Sedinents.

Experiences

Schontist 1

Radiocology Division, FuDFts Rico Nuclear Center,

Mayagues, Purto Rico (Oetdber 1972 to the present)

Duties:

(4) 50% of working time spent in research on developing a non-destructive method of determining concentrations of heavy metal pollutants in airborne particulates by the neutron activation analysis technique, and in helping to organize and conduct « Research program on air pollution in Puerto Rico Goto Bay Project sponsored by the Power Authority of Puerto Rico))

(b) the other half of working time spent in collaborating in research on the marine radioecology and the fate and budget of transuranic elements in the Bikini Atoll nuclear testing area (U.S. A. B.C. sponsored Marine Biology Project)«

Postdoctoral Research Fellow

Department of Oceanography, Texas A & M University,

College Station, Texas (Summer 1972)

?Carry out research on water pollution by industrial waste effluents
and on the effect of silt dredging on the ecosystem around,

---Page Break---

San Antonio, Texas. Responsible for collection on a research on
eastward sampling of sedimentary biological specimens by
Biodiversity measurements of physical temperature of samples, analysis
of polluting heavy metals like mercury, lead, cadmium, arsenic
Major cations by atomic absorption spectrometry, chlorinity and
Totality titrations of the column water and interstitial waters of
the marine sediments.

Chemistry Department, Texas A & M University
Eolinger Station, Texas (Spring 1972)

Dotto:

Research in Hot Atom Chemistry. Study of recoil tritium reactions An

Bryans halides Srradinted with nuclear resctor neutrons. Radiogss
Shfonatographie aralysisia of the reaction products An above etudys
fapiled s vuouun syeten for transferring Pesioactive and hatardous

rotoctot

Ghani tey Department, Toxss A&M University
Gollege Station, Texas (Fall 1966-Fall 19/2)

Noe

Responsible for research and develomant of instrumentation for none

eeEtive ansiysis ef troce amounts of uranium in marine sossnonts.s

Sharnal neutron wetivation and folayod neutron count ine analvsise

Heasanenont of urantum concentrations. sn marine sedinontn iron world

Major economy rivers, estuaries and from chertlesly reducing water

Blaine and nangenese nocules to study the spatial distribution, node

OF depositions enrichment and resoal of urantun in the marine? environ

Sints "Worked with « repitatile chonical oceanograptr on this projects

Reveareh resulted in to publications An two naJor geoohenicad

Jourpela. "Suporvieed threw unsorgraduate research Fellows in radiow

Semistry research. ?lvo and cnechel? yours tonching? of undergraduate

Ghenietry Labs, graded lab reports, quizzes.

Graduste Rosearch Assistant

Chemistey Departront, University of Arkansas

Peyettavilla, Arkanses (Spring 1963-Fall 1966)

Dutie

Duties included radiochemical separation of fission product, fallout
Geiger in rain water, air filter samples and research in radioactive
isotopes? Research in nuclear fission by Fissionable materials.
Processing of natural Uranium ores and extraction of uranium. Sepa-
ration purification, detection and identification of fission products
Parent isotopes at all levels of activity. Nuclear instruments of =
type handled and operated. Interpretation of gamma spectra
of fission.

Publications:

Approximately 8 to date,

---Page Break---

Born June 22, 1922

University

1950-60

assist

aoe,

Address: o-7 calle Lirto

UP. Doenaventuea

Mayaguez, Poozto Rico 00708

?els? Office (609)602-8244

Mone (079) 32-1262

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Brought wp in Cairo, UALR, where T attended public
shoots. "Graduated with?a Se. in geology ane ehEDIATEY
Exon Caixo University. Cane to?the Unites states in
1360, ?heceived a Ph.D. Sn geology teen the University
?f Utah in 1969." ecane a permansnt resident, (iesereat)
cof the United states in 1065, Married in 19054 wife te
dnerican citizen fron Utane

University of Utah, salt take city, Utah

Pou. (1965) im Gaology with a minor. in mineralogy

?Tesias Geology of the older Sumit? quadrangle

ean.

Cairo University, cairo, UALR.

Work Leading to M.5.egree in gaology. Thesla: sur
face and subsurtace geology of chasse viripe Mosk act
completed because of leaving to the United states

akro University, Cairo, U.A-Ke

B.Sc. in geology and cheaisty (January 1958)

Wauivaient of 60 semester credit nurs in geology and
38 4n chemistry]. ?hacesved saraka's senorial Prive, ta
1958 Gwarded to" student with nagheat cunmlative
?rade An goology in the final yest)

Associate Professor of Geology (1963)

Acting Chairman, Department of Geology (1970-73)

Assistant Professor of Geology

University Of Puerto Rico, Mayaguez, Puerto Rico

Scientist - part time

Research work on recent marine sediments in relation to

investigations of the mechanism of dispersal and distribution

of trace elements in the marine environment

Study of sediments in connection with geochemical processes

---Page Break---

toe

Summer 707

1959-60

986

Summer 1957

Summer 1956

oworARY

PUBLICATIONS

Lectures in Geology, Queens College of the City of New York, Flushing, N- York

City of New York, Flushing, N- York

Helped in teaching the summer field course in Puerto

Department of Geology, University of Utah

Assistant Research Worker, Department of Geology:

Desert Institute, National Research Center, Reno, NV.

Research work on "Surface and subsurface geology of

"Ghazal strip" in connection with water resources.

Developments

Demonstrator (part time), Department of Geology

University of Utah

Teaching consisted of laboratory instruction in "Evolution

of fossils of Egypt," and "Interpretation and construction

of geologic maps."

Geologist (Analyst), Société égyptienne des Travaux de

Industries Chamales, Suez, Canal

Assistant Geologist, Abu Za'apal aasalt Quarries. °t-xSeuiy

Mining Cos, Cairo, UsAsRe

[A training program at the laboratories of the société

Ugyptienne dea tngraia et des industries chimiques, Sues,

L. Geological society of Anarica ?Nesber, 1963)

2) Anerizan Astociation of tetroleus Geologists

(Gunior, 1961) Aesve Member, W967)

2. Society of economic Paleontolosises and Mineralogiate

(hetive Member, 1963)

4. Geological Society of Puerto Rico (Active Member, 1965)

Ceanetlor (1967-63)

1 The Sockety of the Signa xi

2) Higea Ganaa lpetion

Approcimately 15 to date.

---Page Break---

Wufloz Ribadeneira, Fausto J.

Radicecology Divieion, Scientist 1

Assistant Professor, Dept. of Public Health,

UPR School of Medicine

¥IBLD: Chemical-Nuelear Engineering

SDUCATTON: | Chenscal Engineering, Escuela Politécnica Nacional,

Quite Beuador 1955; University of kedrid 1952; Norih Gant=

pita State Cotlege 1959." Argonne Rutionai taborstory?

Argonne, Illinois, 1959: MS. Nuclear Engineerine, ieiver=

sity of Puerto Riço 1966. Radioicovopee in Industry,

Kartas State University, Sunger 1961.? Nuclear Explosives.

PRNC Sunner 1967. Dosimetry in Radiotherapy PRUCy cote

Novenver 1970.

EXPERIENCE: Assistant Lecturer in Chemical Engineering,
Escuela Politécnica Nacional, Quito, Ecuador 1952-1954
Chemical Engineer (Cementos S.A. Caracas), Medellín, Colombia
1959, Engineer Production Supervisor, "Cemento Chinchorro"
Guayaquil, Ecuador 1956-57; Chemical Engineer (Vieiras),
(División de Materiales, Spanish Council of Atomic Energy
(CSN), Madrid, Spain {1956}. Research Associate,
Nuclear Engineering Division Arzobispo National Laboratory:

on

Quaker 1962; Research Associate, Nuclear Science Division,
PRC, 1960-64; Head, International Nu. Exhibit Program,
PRNC, 1964-1967; Principal Investigator Nuclear Explosive
in Mining Program, Nuclear Engineering Division 1968-1972,
Scientist I Radiology Division, 1973 to present. Assistant
Professor, Department of Public Health, (PR School of
Medicine, (Part-Time) 1969 to present

PUBLICATIONS: 20. Covering the following fields: radiation chemistry, hydrometallurgy and research activities at the N.E. International Exhibitions Program. Papers presented at international meetings: 7; covering fields of interest: metallurgy and radiation chemistry

PRESENTATION OF ACTIVITIES: Air pollution.

---Page Break---

Curriculum Vitae

Name: Marfa L. Nazario

Bachelor of S

University of Puerto Rico

Mayaguez Campus

Major: Biology

Master of Science: To be completed by November 1873,

University of Puerto Rico

Mayaguez Campus

Major: Biology-Entomology

Memberships

- 1) Entomological Society of America
- 2) 888 Alpha Chapter

Work Experience

- 1) Research assistant:

Campus.

- 8) Insect dissection preparation

tant at the Entomology Laboratory, U'K, Yayagues

1d rearing.

1) Lab maintenance and organization.

©) Behavior-norphology studies.

2). Research work on the reproductive system of *Diatmaco saccharalis*

(P). (epideptera Crambidae). Morphological and histological

Work for the Master thesis.

Publications

1971, New Sotpugids (Arachnida: Sotpugida) from Puerto Rico. J. Agr.

Univ. Pubrto Rico. 55(4): 508-12

Submitted:

1973, Miskinen, G. K., and M, L, Nazario, Histological techniques

for the preparation of insect tissues and whole "ots. a.

Entomol. Soc. America. # pares.

1973, Miskinen, G. W.. and M. L. Sacario. Use of the microcryostat as a tool in insect histology. Stain Technol 2 pages.

---Page Break---

8

cupercunim vrrar

NAME: Cary P. Owen

DATE and

PLACE OF BIRTH: 1A March 1944, Montchello, California

PhucaTroN: N.S. Zoology

Carif. State tmiversity at Long Heach

M.S. Marine Fiolony

Scripps Institute of Oceanography

University of California at san Diego

ACADEMTC AWARDS National Science Foundation Predoctorial

Traineeship (1967-198F)

National Science Foundation Research

Assistantshin (1069-1972)

PROFESSIONAL EXPPRIFNCE

Research Associate:

1978 to date - Assisting on plankton research - Puerto Rico

Nuclear Center

(1) Guayanilla Pay Project

(2) Johos nay Prosect

(3) Site Selection Survey Projcet

Co-Chief Scientist:

Sept. '72 = Jan. '78 - Directing the field portion of a study on distribution of inshore zooplankton populations on the eastern South American coast.

1968 - 1972 - Food Chain Research Group - Scripps Institute of Oceanography ~ Research on the lower end of the marine food web. Specifically, assisting in studies on the function and importance of the Pico-zooplankton.

1965 - 1966 - California State University at Long Beach - Research on the effects of sewage effluent on marine invertebrates

Chief Biologist:

1966 Office of Naval Research - Directing biological Sampling during the M.S. Coast Guard's Tee circum-navigation attempt of the Arctic Ocean.

---Page Break---

Gary P. oven

page 2

1964 University of Southern California - Running the
University of Southern California research program
for T-3 Flecher's Island, Arctic Neean Stations

RESEARCH AND_INTERFSTS:

1969 = 1972 - Southern California coast,
Studying the energetics and population dynamics
of marine ciliates in coastal erhayments.

1865 = 1966 = Southern California coast.
Looking for evidence of environmental stress brought
about by domestic sewage contamination in polychaete
worms using biochemical parameters.

EXPERTENC!

Sept. 72 = Jan. 73, R/V Melville, Cato lens 6-8,

Fast and West Coasts South America.

Noy. 70 = Jan. 71, R/V T. Kashington, Aries Legs

452; South Pacific Gyre.

July 67 = Sept. 67, Fast Wind, Arctic Circum-

navigation Cruise, North Atlantic and Arctic Ocean,

Minor: 1979 - 72, Coastal Cruises California, Pt. Conception,

California to Southern Faja, California area, Total

duration per year averaged one month.

---Page Break---

CURRICULUM VITAE for Janee D. Parrish

PERSONAL

Present adres

Puerto Rico Nuclear Center

College Station

Mayaguez, Puerto Rico 00708

Telephone: Area Code OS + 832-1424 X32 office

ee3zrsii

2756

Social Security

Height: 6'1" Weight: 185 lb, Race: Caucasian Health

Excellent

DOB: 16 Dec 35 Birthplace: Bennettsville, South Carolina, U.S.

Citizenship: U.S. Family: wife and 2 sons

EDUCATIONAL

Present affiliation: Puerto Rico Nuclear Center

College Station

Bayamón, P. R. OTOE

Status: Scientist 1

Graduate Study:

Institution Curriculum Date Degree

Rensselaer Polytechnic Institute, Engineering 1964-1967 None
Science (part time)

University of Rhode Island, Oceanography 1967-1972 PhD

?Hingham, Rhode Island

Part-time work at Rensselaer constituted a transition from an engineering background toward marine science, with courses in mathematics and basic courses in oceanography, wave theory, physical chemistry, physical geology and Biology.

Full-time graduate study at Univ. of Rhode Island has consisted of a basic general education in oceanography with speciali-

gation in marine animal ecology. There has been a strong personal emphasis on ecology of fishes and on the tropical reef environment, largely implemented through seminars, and individual study courses, but also through research and personal study. Interest in quantitative, analytical approaches to populations and interspecific relationships have been implemented through available course work and personal study. Some basic computer and statistical techniques are also used in research.

---Page Break---

Graduate Program Committee

ame Affiliation and Addr: Specielty

Dr. S. 4. Saila Graduate School of Oceanography Fisher;

(major University of Rhode Teland ?biology

professor) Kingston, Rhode Island, 02681

Dr. NW. Harshell . . . "Productivity,

Dr. W. He Krueger Zoology Dept., 306 Ranger Hall, Tee? ecology

Unavereity of Rhode Toland Tenthology

Kingston, Rhode Island, 02661

Undergraduate Study:

Instizution Curriculum Dates Degree

Furman University, Engineering 1952-1954 None

Greenville, South Carolin (eraneferred)

Univeraity of South Carolina Mechanical

Columbia, South Carolina ?Engineering 1954-1956 BS.

Work at these two institutions comprized @ conventional 4-year

undergraduate program in basic mechanical engineering with eaphasie

on thermodynamtes and power. An overall "grade point average" of

Sto'one scale of 0 to 4.0 was earned.

Academic Honors and Awards:

1) First honor graduate, Univ. of South Carolina, 1956

2) Phi Beta Kappa

3) Tau Beta Pi

(a) Society of American Military Engineers award, Univ. of

South Carolina, 1956

(5) Westinghouse Electric Corp. scholarships, Univ. of

South Carolina,

(6) National Science Foundation fellowship, Univ. of Rhode

Island, 1957-1970

(1) National Science Foundation Fellowship, 1970-1972 (declined)

(8) National Institute of Health Fellowship, 1970-1972

(3) Sigma Xi

PREVIOUS PROFESSIONAL

Employed actively by General Electric Company from 1956 to 1967 *

as an engineer. Field engineering work on turbine-generator equipment

ent and research in fluid mechanics at the company research center.

Jeonestere of company graduate-level advanced engineering course.

Aircraft maintenance officer with U.S. Air Force 1956 to 1959.

Period of absence for military service

---Page Break---

n

MAJOR RESEARCH INTERESTS

The general field of research interest is the ecology of marine organisms, particularly the ecology of communities. Interactions between species is of major interest, including competitive and particularly predatory interactions. I would like to study the significance of predation from the behavioral to the quantitative effects on populations and communities. A number of interesting aspects of various real and theoretical models should be explored.

The environments of major interest are near-shore marine, I have particular interest in tropical environments, especially coral reefs, and would like to study reef animal communities primarily from a trophic point of view. The animal groups of particular interest is the fishes, both from the standpoint of

general ecology and their community interactions are diverse

Research methods should include observational and experimental as well as purely analytical approaches. Most of my ecological training and research has emphasized theory and analysis, however:

I enjoy field work, consider it important, and would expect to incorporate it strongly into future professional research, activities,

This research is in analysis of theoretical interactions between species and the resulting population effects,

PUBLICATIONS

Marshall, Ney J. Parrish and Ay L. Gall. 1972. A technique for collecting particulate organic matter in situ. *Marine Biology*

12: 196-198

Parrish, J.D, 1972. A study of predation on littoral tropical holothurians at Discovery Bay, Jamaica. (Abstr) In: Marine Studies along the north coast of Jamaica. Bailey, G. J. (ed. Atoll Research Bulletin. 15216.

Parrish, J.D. and S. 4. Sai?
predation and species div

1970. Interspecific competition,
Ecology, Theor, Biol. 27: 207-220.

Saile, S. 3, and J. D. Parrish. 1972. Exploitation effects upon interspecific relationships in marine ecosystems. *Ecology* 53: 383-393,

TRAVEL & LANGUAGE

Lives extensively in

Japan (US, Air Force)

Qatar (US, Air Force)

Argentina (engineering work)

Puerto Rico (scientific research)

Lived briefly in:

demaicn (ounaer ree! revearen)

enerueta (eneineps ing work)

Quebec ? "

---Page Break---

n

rave? and shorter stays int

Bahamas (reef research)

Greater Ketherlands Antilles (reef exploration)

Panese (marine research)

St. Thomas

Chire

Uruguay

Fair spoken us

Read

of Spanish languages

Spanish with difficulty.

not fluent.

VOCATIONAL

Avocational interests are primarily of an outdoor sporting nature, principally aquatic and trail activities. I have used SCUBA extensively recreationally as well as in shallow water research, and have PADI certification.

---Page Break---

None

Date of birth

?Academic rank

Degrees

Service on Faculty

Other experience

Consulting work

States In which registered

?

ree

26 Novenber, 1932

Assocta

Professor

B.S. Mech Eng. 1958, Iowa State College

MIS. Nu. Eng. 1964, Iowa State University

PhO. Mic. Eng. 1967, Iowa State University

bye

Vice President, Parents:

Campus School, Inter American University.

San German, Puerto Rico, 1968-65.

Chairman, School Board, Campus School, Inter
American University, San German, Puerto Rico
1963-70

Member, President's Council of Inter American
University, San German, 1970-71

Outboard Marine Corporation. Development of
outboard motors. July 1958 = July 1960.

Research Laboratory, AEC, Junior Engineers
on mechanical properties of materials
1960-64,

Research

August

Puerto Rico Nuclear Center, Division of Nuclear
Engineering. Scientist 11. July 1967 = present.

Instructor of nuclear Engineering, Iowa State
University, August 1964 = June 1967.

Assistant Professor of Nuclear Engineering, Iowa
State University, June 1967 = July 1967.

None

---Page Break---

%

Membership in scientific
and professional societies

Wonors and Awards

Subjects or courses taught

this year

Other assigned dutt

Prograna participated In, to

Improve competence as teacher

Phi eta Sigma

PI Tau Sigma

Tau beta Pi

Anerican Nuclear Society

?American Society for Engineering Educat on

Listed In American Hen and Vonen of Science

Dictionary of International Biography

International Scholarly Directory

None = On Sabbatical Leave

Chairman, Reactor Audit Group, PANC

Vialeing Sctentist, Oak Ridge National Let
for the USAEC, Analysis Group. Septenber 1973,

Approximately 7 to date,

---Page Break---

75

Leslte Piastre

Research Avstatant) Departwant of artne Sotenc

Puerto Rico, Maysguez, Puerto Rice, 00708,

+ Univereteey of

Date and place of birth

January 29, 1918, Burlington, Vermont,

Yoraa Eéveattont

New York State University College of Education, New York State

Teaching Certificate, 1970, (Secondary Biology)

University of Puerto Rico, H. 6. 1973, Graduate Science, (Zoology).

Yustere Theater

?The Behavioral Ecology of the Lizardfish, *Syrodontomus intermedius*,

movement and feeding periodicity, feeding Rablees sisetaaGe

Preference, reproductive biology,

Experience and Activities

Research Assistant, Department of Zoology, University of Puerto

Rico, June 1971~ June 1973,

Crutsee on A/V Crawford to the telds of Anegada, St. croix,
Nona, and Desecheo for fish collection, survey, and photogcaphy,

Auetae 40 prelistiary baseline study prior to thermal siesta ect
Anatallations.

Asetat to collecting, elasstyng, and storing fish for tchthyolgy
feuseum, UPR.

Aaniat An Laboratory experteente,
Other postetons and experienc

Bante and advanced AUT SCUBA certification, &9 open water SCUBA hours,

Migh School Biology teacher ?atudent tesching), Liverpool! Righ scheck
Liverpool, N.Y.? Jama ry 1970 ~ Sure 157

Reetdene sssietan? in dorattery, Nev York State University College
st Onvego, N. ¥., Septeuber 1968 = Decenber 1909,

Dey camp comnsstor, Central Queens YHA, Jasaiea, Lf,

1968 = August? 196:

Ye, June

Reports

Attraction-Avotdance Reactions of « Fish to a Detersect, 1971, (eo
Department of Marine Seleoce).

?The Reology and Behavior of Synodus {otersedts, 1971, (to Depertae

---Page Break---

Name

Date of birth

Acadente rank

Degrees

Service on Faculty

Other experience

Consulting work

States in which registered

Principal publications of

last five years

2a, Heriberto

13 August 1937

Associate Professor

BSEE, Univ. of Puerto Rico, 1961

HSNT, Univ. of Puerto Rico, 1963

Ph.D, Texds AGM Unive, 1966

5 years

Electrical Engineer, Puerto Rico Mater
Resources Authority, July 1961= January
1962.

Assistant Instructor, Physics Department,
Univ. of Puerto Rico, January 1963. =
May 1963.

Supervisor, Bonus Power Plant, Puerto Rico
Water Resources Authority, June 1963 ?
September 1963-

Operator, Gamma Facility, Texas ASM Univ.,
November 1965 ~ July 1966.

Nuclear Engineer, U.S. Army Engineer Reactor
Group, Fort Belvoir, Virginia, March 1966 =
December 1968.

None.

None

"Absolute Flux Measurements Using the Activity Ratio Technique? Conference on Research and Training Reactor Utilization, ANS Transactions , Supplement number | to volume 15., 1972.

"Applied Nuclear Power Engineering for Practicing Engineers", Garnes & Noble. PECDS Series, 1972.

"Experimental Verification of the Asymmetric Source Method in Reactivity Measurements? (with Rafael Nicala) PRNC Report (to be published) 1970.

"Experiments Interaction" (with David (to be published) 1971.

Investigation of Neutron Detector (Caro), PANE Report

---Page Break---

te

and professional societies

Honors and awards

Subjects of courses taught

this year

Other assigned duties

Programs participated in, to

Improve competence of teacher

n

?experimental Verification of a Theoretical

ode! for Evaluating Therne! Neutron Sif fasion
Lengths in Hydrogencous Rater als Using (nr)
Reactions" (with Juan Alearaz) PANE Resort
(tobe publ ished) "1972.

\Activity Ratio Technique for Measuring Thermal
Neutron Flux Using Activetion Detectors"

(with Rafael Sardina) PRNC Report. (to. be

publ isheg) 1971

Tau Beta Pi, Phi Kappa Phi

Nu £9 603, mu eg 626

Research Comittee of the Faculty of
Engineering

None

---Page Break---

(CURRICULUM VITAE

Kane: Ritchie, Tavrence 3.

mite: Director, Puerto Rico Nuclear Center

Place of Birth: Glenvil, Nebraska, U.S.A.

December 9, 1906.

» Grant Island, Nebraska, ?A,3, 1928 tology.

hwectern Untversty, Evanston, Tlinois, M.S. 1930 Parasitology

Northwestern University, Evanston, Tiiinoie, 7h.D. 1935 Parasitology

Honor:

Achievements and Comendstton:

July 1955 = Certificate of achievement for meritorious service by the

Logth wedieal Genera! Tanoratory,

July 1966 = Letter of Commendation of the LDSth Medios General Labora

tory.

Letter of appreciation from the Governor of Yanansh\$ Pre-

Fecture, Japan for effort in study and control of echisto-

sontasts,

1958 = Member of symposium on schistosomiasis for meeting of the

American Society of Tropical Medicine and Hygiene.

1960 = Recipient of the Tesac Gonzalez-Nartines Award, Puerto

Rican Committee for Schistosome Control,

Sept. 1964 - Invited to present paper at the first International Con-

ference of Parasitologists, Rowe.

1968 = Member of Cornell Medical College Schistosomiasis Team to

the Philippines.

1970 = Recipient of "Medal of Merit", presidential award, Philip-

pine Islands,

Major Research or Professional interest:

Parasitology, Malacology.

Military Assignments:

1945-46 = 27th Medical Laboratory - Leyte, Philippines (12 months)

1946-47 > ETH Medical Laboratory - Itoya, Japan (5 months)

1947-48 = 10th Medical Laboratory - Yokohama, Japan (8 months)

1948-49 = 10th Medical General Laboratory - Toyo, Japan (4 months)

Civilian Assignments:

1949-50 ___ ~ 10th Medical General Laboratory ~ Tokyo, Japan,

1950-51 = UGA Tropical Research Medical Laboratory ~ Puerto Rico,

1951-52 > Walter Reed Army Institute of Research = Washington, D.C.

---Page Break---

Continued Assignments (Continued):

3963-12 + Senior Scientist 1, Puerto Rico Nuclear Center,
29M-Te - Acting Head, Medical Sciences and Radiobiology Division, No
LETTS |x Head, Division of Medical Sciences and Radiobiology, Pac

AV/AT/T3 to 9/21/T3 * acting Director, Puerto Rico Nuclear Center:

Acting Director

2932-3 = Part-time Instructor ~ Northwestern University,

Assistant Professor, Belmont = Woman's College,

1936-40 + University of Maryland? Carlin.

1955-56 = Special Lecturer in Parasitology ~ University of Puerto Rico

Medical School,

Associate ~ Professor (ad honorem), Department of Biology, University

of Puerto Rico.

Assistant

Department of Public Health, St. Lucia, British West Indies

World Health Organization, 1962, 63; 1964; 1967,

Professors! societies:

British Society of Parasitology - 1937,

American Society of Tropical Medicine and Hygiene = 1947,

World Society of Tropical Medicine and Hygiene = 1960,

World Health Organization,

World Health Organization.

Biography

Approximately 100,

Biographical notes:

. Member of the Journal of Parasitology by reviewing manuscripts

An interesting specialty.

Members of committee, delegated to prepare chapter 10

'Control of Malaria', of a Manual entitled

'Hygiene and Control of Bilharzia?':

---Page Break---

(CURRICULUM, VITAE

Prepared:

april 15, 1973

WME: Frederick Bavard Rushford

DATE OF BINT: Apri 13, 1929

PLAGE OF BIRTH: Springtteig Massachusetts, (8A

CVIL STATUS: Married to Maria Teresa Faaii2e

?Ne children: Catherine Teresa Rushford (2

Frederick Fugene Rushford (29)

PRESENT ADIREES: 162 Vintani2 Street

Saneurce, Puerto Rico 00207

?Telephone: 723-6826

EDUCATION:

Sevondary: Bulkeley High School, Hartford, Connecticut

Gradusted 2 136

Undergraduate: 3. 8. degree - General Science - 1950

Srinity College, Hartfora, Connecticut

Graduate: 202 credite in Edeuation, Réycational Administration, and Bioloay

University of Puerto Rico, Rio Pledras, Puerto Mico- 195k to present

SPECIAL TRAINING: ISP Summer Institutes for Secondary Teachers, 1958-1961

University of Puerto Rico, Rio Piedras,

Traveling Science Teacher Training, Summer 1959

Oak Ridge Institute of Nuclear Studies,

Oak Ridge, Tennessee

Basic Radioisotope Techniques Course, 1953,

Puerto Rico Nuclear Center

PROFESSIONAL DIPLOMAS: Science, Secondary School Science Teacher,

Government of Puerto Rico

License, Secondary School Principal,

Government of Puerto Rico

PROFESSIONAL SOCIETIES: Member - American Nuclear Society

Member - Puerto Rico Teachers Association

Member - Countinano, Puerto Rico Chapter of the

Health Physics Society

---Page Break---

a

FB, Rushford april 15, 1973

SSHITANY SRWVECE: v. 8. fray, Hay 25, 2952 to May Ob, 1953; actite duty

Medical Laboratory? Technietan

Rank: Private 8-2

marmrmnes:

1950-51 ~ civilian Clerk, U, 8, Army Corpe of Engineers

1951-53 ~ fotive Minitary Service - Medion? Laboratory Tecintctan,

Roar Sguer Army Hospital

1975-59 ~ Secondary Setocl Teacher of eathenatics, biology, cheatstry,

in2 plysics - Antilles Consolidated Schools, D's, tent

Station, San Juan, Puerto Rico

1959-60 - Traveling Gctence Teacher - Oak Ridge Institute of HucLear

Studies

Oak Ridge Institute of nuclear Studtes,

signed vo U. S« Alomte Energy Commission ieuitics ts

Buenos Aires, Argentina

1960-62 - Mathematics and Science Teacher, Antilles High School,

US S, Naval Station, San Juan, Puerto Rico

June 1962 to July 1970 Technical Assistant to the Director,

Puerto Rico Nuclear Center (ERNG), Caparra Heights Station,

San Juan, Puerto Rico

January 1970 to present = Chief Information and Education Services Division,

Puerto Rico Nuclear Center

August 1970 to present

1972 to present. - Coordinator for Nuclear Progress, University of

Puerto Rico, Office of the President = Joint Appointments

336 U.S. and 67% M.C.

Educational Officer, Puerto Rico Nuclear Center

PURLZcaTrons:

1, Bvualuation Study of Sumer Institute in Radiation

Biology (FUG 66)

2 Ateacs..Pierto Rico Tasbiés, Vitae 1 noviesbre 1965

3: Mie Puerto Rico Tuclesr Center: Its Principal Irradiation

facilities and Scientific Progran, Teotopes and Ratlaciee

Festeclony published by Isotopes Inforaetfor Serta

GRE Biaae vafioralaborasens ee ae 3, Spring? 1967,

---Page Break---

Date of birth

Academic rank

Degrees

Service on Faculty

Other exper lence

Consulting work

Sasscer, Donald 5.

30 January 1929

Professor, full tine

SHE, Univ. of Utah, 1953

SNE, owe state Univ., 1959

Ph.D. lowe State Univ, 1964

9 years

Douglas Aircraft Corp. = Power Plant Analyzation

Section, June-December, 1963

Hebbonel Aircraft Corp. = Engine Components Design

Summer, 1956.

structor of Theoretical and Appl

State University, 1956-1959.

4 Machanics,

Istant Professor of Nuclear Engineering, toma

State University, 1961 =1964,

Research Scientist, Division of Nuclear

Engineering, Anes Laboratory of the USAEC, Anes,

Towa, 1961 = 1364.

Lecturer, AECWASEE Sumer institute in Kuclear.

Engineering, Iowa State University, Summer 1962.

Lecturer, AECOASEE Summer Institute In Nuclear
Metallurgy, Iowa State University, Summer, 1963.

Com Director and Lecturer, OCO-ASEE Summer
Institute In Fallout Shelters, Summer 1967.

Director and Lecturer, PAVRA (Puerto Rico Water
Resources. authority) Special Resistor Operator
Training Program, Summer 1970.

Director PRURA Special Reactor Supervisor
Training Program, Summer 1972.

Director and Lecturer ALC Summer Institute on
Electrical Power Generation In Puerto Rico,
Summer 1973.

Chief Scientist 1, Division of nuclear Engineering
of the Puerto Rico Nuclear Center, 1965 ~ Presents

Commonwealth Oil Refining Company, (CORCO) part=
time 1955-59.

---Page Break---

States in which rest

Memberships in scientific
professional societies,

Teaching and

Honors and Awards

Subjects or courses taught
this year

Other assigned duties

Programs participated in, to

improve competence as teacher

Publications

none

American Nuclear Society (ANS)

Health Physics Society (HPS)

American Society for Engineering Education

(see)

National Honor Society of Phi Kappa Phi

Special Fellow
Atomic Energy Commission

1959-1961

Member of American Men and Women of Science?

Guest Lecturer, USAEC Atoms In Action Program.

Univ. of Guatemala, Guatemala City, Director,

Guest Lecturer, USAEC Atoms in Action Program,
Univ. of Panama, Panama City, Feb. 1964

Elements of Nuclear Engineering

Introduction to Nuclear Engineering

Research

Chairman Dept. of Nuc. Eng. UPRRUC (extra
consentation)

Head Division of Nuc, Eng. Puerto Rico Nuclear
Center USAEC-UPR

Visiting scientist, Div. of theoretical Reactor

Phys. Brookhaven Nat. Lab. (USAEC) Summer

Visiting Scientist, Center for Electronics

Affairs and Radiological Physics Divs Argonne

Nat. Lab. (USAEC) July 1970 - July 1971

Approximately 13 to date

---Page Break---

conto viras

Date and Flaso of Birth: July 16, 1935; Washington, D.C.

_Ehuont fon:

AeBey The Catholic University of Anertes,

Washington, D.C.

Paed., Chentstzy

university of Hotre

South Send, Indians

Professional, Expertencs

Sept. 2965-008. 1969 =

3966-1969

1968-1969

Oct, 1969-Sept 1970

Sept. 1970-April 1971

July 1972 to date

Publications:

one,

Associate Scientist 1, Puerto Rico Nuclear Center,
Research in gamma radiolysis and photolysis of
heterocyclics at low temperatures

Assistant Professor, Department of Physics,
University of Puerto Rico, Graduate Research

Program Advisor.

Lecturer, Department of Chemistry, U.P.R.
Course given in "Chemical Kinetics", "Inorganic
Radiation Chemistry and Photochemistry".

State Setentist, serochen. esearch Latoratory,
Princeton, New Jersey. Research on reactions
fof neutral and fonie species in high temperatue
anes,

Research Scientist, Pengy Conversion Devices, Ine.
?Troy, Michigan. ?Resesros on phosographio arpects
of skorphous soniccnductors.

Puerto ico Nuclear Center and University of Muerto
Isleo, Chentstry Departuent, Rio Piedras Puerto Rico.
Hosearch in gamma rediclysis and photolysis of
heterocyelic conpounts, ani in cheatluninescence

of eyelie peroxides, and possible intermediate
Dioltinineccent eystons,

sa

?proximately 5 publications to date.

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RicuLuy

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+ Porfirio A. Toledo charneco

Date of Birth + November 20, 1946

Place of Birth + Arecibo, Puerto Rico

Marital Status; Married, no children

Education

Institution Degree Subject Month/year

University of PLR. RUM B.S. Mathenatic & Peye. ay 70

University of P.R.-

Medical Science Campus R.P. M.S. _-Radfological Health July 72,

Professional Experience

Position tution

Research Ase. 117 Puerto Rico Nuclear Center Sept.70-guly 71

Mayaguez~ Radioecology Div.

Associate Scientist IT Puerto Rico Nuclear center

Health and safety Division Sept. 72-uly 1973

Rfo Piedras, PR.

Associate Scientist ITI Puerto Rico Nuclear Center (508) Auy. 1973 to Present.

Meaith and Safety Division

Rio Piedras, P.R.

Instructor University of 7.2,

Medical Science Campus,R.P. (508) Aug.1973 to

present

Additional data

Health Physics Society Member

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Curriculum vitae

Name: Vance P. Vicente

Bachelor of Science: University of Puerto Rico, Rio Piedras

Campus. Concentration in? Biology, 1970,

Master of Science: University of Puerto Rico, Mayaguez

Degree in Marine Sciences, Special

Marine Biology, 1975.

Work in marine

Certificates and Memberships

1) National Association of Underwater Instructors Certificate.

2) Member of the International Oceanographic Foundation.

Previous Experience

1) Taxonomy of the benthic samples of St. Thomas for the Earth Resource Technology Satellite Program under PRIMUL.

2) Qualitative and Quantitative determination of the plankton in St. Thomas for E.R.T.S, under PRIMUL.

3) Design of a microbiological study within the undersea laboratory 'La Chalupa', PRINUL.

4) Assistant Science Program Coordinator for the Puerto Rico International Undersea.

Publications_ in Progress

1974 Vicente Vance P, and Dr. Luis R. Almodovar. Some aspects of the feeding habits of *Ghaetodon capistratus* and the *Scolecophora* 13s

Vicente Vance P. The shallow water sponges (*Demospongiae*) of the North Coast of Puerto Rico,

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CUNRECU LN VERA

David ¥, waiver

Zenlor Sctentier, troptcal agrowelences Division, Hac

Associate Frofestor, Biology Ueapartment, University of Puerto kico

Blucation

University of Waahincton, 2.8., 1950

Washington State tniversity, Wee, 1952

Washington State Uiversity, Madly 1989

Acadeats Bpersonce

Teachins: Introductory soley, Introductory Zoology, systematic

tocclugi. iemetiss, Biologica contol, Yerterrace

Fayelolog, Gera. Beolowy, Invertebrate Zosonr, tacect

Suttrol, ?Thea*ure ineests (tskonowy'y Insect BS cogy

Research: Monoculture ecology and control of Insects in stored grains;
Punitive or timber insects; gamma-irradiation of
{epiphytes and other Rhizosphere organisms; translocation,
capability, population change and distribution of agricultural
pests; growth inhibition of agricultural weeds and insects
pests,

Research Grants: ABC 1982 to present for work on insect sterility;
Skenagro Corporation 1962-63 for work with vegetative insect
control by insecticides; American Cyanamid Corporation
1935-58 for work with insecticides; Union Carbide Corporation
1950-58 for insecticide studies; USAID 1955-59 for work with
insect control; USDA 1966 to present for work on insect control.

Administrative experience

Director, Induced sterility in Insects Program, Pesticide Research
Administration Center 1963 to present; Project leader, Stored grain
insect investigations, Washington State University
Director, Malaria Control Program for the Philippines for
United States Security Administration (AID) 1950-52; Chief of
Mental Sanitation Program for United Nations Relief for
Palestinian Refugees Program, Egypt 1949-50,

19\T As. Laboratory Technician, Department of Public Health
and Preventive Medicine, University of Feckageon, chose oe
Nodtelne; 2940.50, Chief danttarian and Malaria Conteos
Qetigers linted Nations aetie® for Palestinian hetero,
Gommtscion, Goze, ?xt, UAR; 1951-33, Mitomilogsse, ts,
Public Health Service, talaria ontcol Progras, coverniont
2s sLippines; 953-55, Santor Entorologist ami hos ssant
Bitomclorist, asrtoultira foperinen: Sutton, hasnneen sete

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Currieulus Vit se (Davia walker)

University; 1963 to present, Associate Scientist, chiet

Scientist, and Scientist TT, and ad honores profesor in
Biology, Puerto Rico Nuclear Center, UPR; 1968-69, Radiation
Biologist, International Atomic Energy Agency, assigned
to the Atomic Energy Commission of Thailand as director of
work on insect sterility.

Professional Experience and Travel

ABD Awardee for Peace Program, lectures on peaceful applications
(of atomic energy presented in Spanish in Guatemala, El Salvador,
Maragua, Costa Rica, Venezuela and Ecuador. Lectures given
at National Universities and Research Centers, 1965-67.

Foreign travel has included the Middle East, 1949-505,
Persia, Middle East and Europe, 1960-69; Central and South
1965-66.

Approximately 35 to date.

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Seeanographer

Setentian IT

Puerto Rico Riclear Center

Mirth: September 15, 1934

BA. Cheatry, Mentern Washington State Coltese, 1964

BAA! Bavcation, Mentern Washington ctate Goltess) 196%

M.S, Ocennography, University of Haahinaton, 1966

Pad, Oeeanography, University of Alaskans it

Qcennographer, 1966-67, University of Mashtogton

NORDIN Fellow, 1069-70, Battelle-for*heest

Setentiat I, 1970-73, Puerto, Rieo Richens Center

Setentiat li, 1g73-present, Puerto Aico thclesr Center

Anartean Chentent Society

American Govshyaicn! Union

American Society of Linsology and Oceanograpt

International Oseenographie Foundation

The Geochemical Society

Hongroteastonat

Areratt Omera and Pliots Aasocetton

Talon Oponrephie Society

ational Rifle Aanoetation

Rapersevee:

Profes

University of Washington, Research and Teaching Assistantships, 1964-66

University of Washington, Oceanographer, in charge of Marine Routine
Chemistry Laboratory, 1966-67

University of Alaska, Research Assistantship, 1967-69

Battelle Northwest, Pacific Northwest Laboratories, HORUS Research
Fellow, 1969-70

Puerto Rico Nuclear Center, Oceanographer, 1970-73

Puerto Rico Marine Center, Head, Site Selection Survey, 1973-present

Professional

Alaskan Fishing Industry, one season, engineer; twelve seasons,
captain of fishing vessels and tenders

Approximately 12 to date

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curriculum vitae

ase marsh J. Youngbiuth

pate and place of birth: 25 September 1940, Portland, Oregon

aucatton: 3.8. Biology, 1963, Portland state University

M8, Zoology, 1966, Untveratty of Bevass

Ph.D. Blology, 1972, Stanford University

Acadente Avars

National Science Foundation Research Assistantehip (2971-1972)

Rational Selene Foundation Dissertation Grant (1971)

Society of the Stgm Xt Research Grant (1972)

California State Ruttion Scholarahp (1969-1970)

ational Setence Poundation Predoctoral Traineeship (1967-1911)

Professtonn Experience:

Research scientist:

1979-1984, plankton research program at Puerto Rico Nuclear Center,

studying coastal zooplankton communities in polluted and

unpolluted regions to assess major components and to determine

seasonal fluctuations in their abundance and diversity.

2) Examining in detail the magnitude of variability associated with

diurnal vertical migration and aggregated distribution patterns,

Research scientist:

1979-1982 Responsible for directing and conducting research program on

R/V Proteus for periods ranging from one day to two weeks.

Instructor:

1970, 1972 (June-July), Hopkins Marine Station of Stanford University

Subject: Biological Oceanography (co-instructor)

1968 (February, July-August), Universidad de Costa Rica (under auspices

of Organization for Tropical Studies)

Subject: Marine Biology (co-instructor)

?Teaching Asstetant:

1967-1968 Stanford University

Subjecte: Biological Oceanography, mrine Biology

1065-1967 Untveratty of fevatt

Gubjecter General Zoology, Invertebrate Zoology, Mnrine Feolony,

Antoni Behavior?

Tavoratory wonger:

1966 une September), Enivetok Marine Biological taboratory (under auspices

?of the Atoute Energy Comission and University of avait)

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marsh J. Youngblati, a

Reoeareh Ansietant

446 (Sune-Seplechter), Entvetok Marine Biological taboratory

Assteted with wevernl research projects, e-g.y Loolated \nucual

Diochentenl polyners fron rooxnthe Lae, collected crgiatons ter

taxrnomie and soogrcgraphte etuiies, gathered ecolagion! aed

ethologtcal date > coconut erab populations, tested nezrecetve

Detnvior of lagoon sharks toward plaatic bag models, eecvened

effect of atomte radiation on indigenous Fat

1966 (sanury, Apri3), Johnston Island (under suspicee ef Yawait Inetttute

?of Marine Blology)

Participated tn a fin toxin (cigutere) research prosras; duties
included mapping subtidal coral reef stuiy arena, tndersater
pootogruiy of these habttate, and collection of top carnivores
for biochemical nasayer

Research Experience noi teres

1969-1972 gulf of California, central and northern California Current,

Vertical structure of the Southern South Pacific gyre, studied the vertical

distribution, diel migration, and community structure of

zooplankton,

1968, 1970 Easter tropical Pacific, Eniwetok Marine Biological Laboratory.

Studied crustacean assemblages symbiotic with coral-bead algae,

aimed to explore mechanisms responsible for the maintenance

of species diversity.

1967-1968 Gulf of California. Attempted to determine with a time

dependent sampling program if the plankton/chlorophyll ratio

could be employed to evaluate grazing pressure at mesopelagic

depths.

1967, 1969, 1970 Eniwetok Marine Biological Laboratory. Studied ecological

and ethological aspects of cleaning symbiosis—a relationship in

which small reef fish remove ectoparasites from other fishes)

Yovenber-Deceader, 1970, RV 7, WASHINGTON, Troptea Eastern south
Pacific Gyre

JulyAveust, 1970, RY PROTEUS, Central and Yorthera califoraia current.

?April-June, "1968, RV TE VEGA, ?Peru to Baja Californie

June-Septenber, Lo67, av iTE VEGA, oult of California

Minor: 1969-1972, 1-8 anya, RV PROTEUS, Central california current

1269, tro" weeke, HV PROTEUS, Cult of Gniivernia,

191966, 1-8 days, RV TERITU, RY GALEM, Uowettan vaters

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Maren J. Youngoluth

omni Societies

Membership in Profe:

Anericen Institution of Biological Setences

American Society of Naturaliete

American Society of Limnology and Oceanography

?The Aacociation for Tropical Biology

?The Society of the Sigon Xt

Publications:

?Youngbluth, wars J. 1965. Aspects of the ecology and ethology of the
leaning fieh Labrotdes phthtrophbagus Randall. Z. Therpsychol. , 2
915-92.

Youngbluth, M. 1967. Some sarine fauna at Plays del Coco, Costa Rica,
Organtzation for Tropical Studies. Mineograpbed, Gan? Jove, Coste
Rice. 10 pe

Youngbluth, M. 1966. Some aspects of the ecology of the cleaning fish,
Tntrides phthiophagus Rendall. *Amer. Zool.* 6 (bs): 532-533:

ropective Publicatt

A, Vertical attribution, Atel migration, end community structure of
?euphauettde in marine? enviroments

I. Tropical, oceante vaters (Fast Tropical South Pacific)

IL. Teaperate, offshore vaters (Central California Current)

TIL, Teayerate, nearshore vaters (vonterey Bay, Californie)

TV, Recurrent groupe of eupbaustide ta stable and traneiticoal water

2, Diurnal changes in the faunal coaponeate of sonic scattering layers ta
Monterey Bay, Californie

3 Eneray transfer by populations of vertically migrating euphaustiae.

4. Season) variation in the sooplankton comunttion of Monterey Bay,

california.

5. Accuracy and precision of methods used to subsample rooplankton,

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