

CEER-A-003

STAFF RESUMES

May 1977

CENTER FOR ENERGY AND ENVIRONMENT RESEARCH

---Page Break---

STAFF RESUMES

May 1977

CENTER FOR ENERGY AND ENVIRONMENT RESEARCH

---Page Break---

Almodévar, Ismael

Bhajan, William Re

Block, Arthur Mes.

Brown, Raymond A.

Brown-Campos, Richard

Chirtboga, Jorge

Clements, Richard G.

Cuevas-Rutz, José

Cuevas-Viera, Elvira

Godschalk, Wilhelm

Goldman, Gary C.

Gomez, santiago

González, Juan G.

Holben, Brent

Tarte, Modesto

Eizary, Nima

Jobin, William R.

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Terrestrial Ecology . 2

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Human Ecology 4

Decontamination .. ou

Fossil Fuel rae 6

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Tropical Agro-Sciences 8

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Fossil Fuel, eaeees ould

?Marine Ecology oe 2

Health and Safety n

Marine Ecology coe)

restrial Ecology . 4

Director's Office 6... ws

Health and Safety .. crores) 16

Human Ecology ...

---Page Break---

Kay, Mortimer 1.

Kimmel, Joseph J.

Koo, Francis K.S.

Lanaro, Aldo B.

Lopez-Diaz, José M.

Marcial, Victor A.

Nazario, Cruz Marfa

Pacheco, José C.

Pedersen, kinud Borge

Plaza-Rosado, Heriberto

Rojas, Hilda M.

Rushford, Frederick E.

Santiago, Rosa Julla

Sasscer, Donald 8.

Singh, Rama s.

Vicente, Vance P.

Materials Scence,

Marine Ecology ...,

Tropical Agro-Sciences .

Nuclear Medicine

Marine Ecology .

Radiation Oncology ...

Human Ecology ...

Medical Physics

Nuclear Technology .

Nuclear Technology ...

Marine Ecology

Training Program

Marine Ecology ..

Director's Office

Materials Science

Marine Ecology ..

20

2

2

23

24

27

---Page Break---

Director's Office

Ismael Almodévar

Donald \$. Sasscer

Modesto Iriarte

Training Program

Frederick £, Rushford

Human Ecology

William R, Jobin

Raymond A. Brown,

Cruz Marfa Nazario

Marine Ecology

Juan G. Gonzalez

Gary C. Goldman

José M. Lopez-Diaz

Joseph J. Kimmel

Vance P. Vicente

Rosa Julia Santiago

Hilda Rojas

Terrestrial Ecology

Richard G. Clements

Arthur Mc. Block

William R. Bhajan

Elvira Cuevas-Viera

Brent Holben

Radiation Oncology

Victor A. Marcial

TABLE OF CONTENTS

ACTIVITY AND POSITION

Director6eeee 1

Actg. Assoc. Director,Chief, Energy Research, 31

Consultant 5

Head, Educational Officer .

Head, Senior Scientist I... 7

Senior Scientist I.....1.. 4

Research Associate II -..... 4

Head, Senior Scientist I...

Scientist P.....

Scientist (£222.11)

Research Associate

Research Associate

Research Associate

Research Associate

Head and Chief, Environmental Research .

Scientist It

Scientist 1, ?

Scientific Associate iit...

Scientific Associate II |

Head and Chief, Bio-Medical Research...

---Page Break---

Nuclear Medicine

Aldo E. Lanaro

Medical Physics

José C. Pacheco Diaz

Health and safety

Nimia Frizarry

Santiago Gomez,

Nuclear Technology

Knud B. Pedersen

Heriberto Plaza-Rosado

Materials Science

Mortimer I. Kay

Rama S. Singh

Fossil Fuel

Jorge Chiriboga,

Wilhelm Godschalk

Decontamination Study

Richard Brown-Campos

Tropical Agro-Sciences

Francis K.S. Koo

José Cuevas-Rufe

Head, Senior Scientist 1

Head, Research Associate It

Acting Head, Senior Associate

Senior Associate

Sentor Scientist I...

Scientist 1.

Head, Sentor Scientist I...

Sctentist 1

Senior Scientist 11

Sentor Scientist T ..

Scientist 1.

Head, Sentor Scientist 1

Sctentist I.

a

25

16

2

26

27

18

32

---Page Break---

NAME

DEGREES

PROFESSIONAL,
POSITIONS HELD

January 1976 to Present

RESUME

+ Ismael Almodévar

48

+ Ph.D., Chemistry

Forrette Mellon University, Pittsburgh, Penn. (1950)

M.S., Chemistry

Sagente Institute of Technology, Pittsburgh, Penn. (1958)

E.Se. (Magna Cum Laude)

University of Puerto Rico, Mayaguez, P. R. (1952)

Director, Center for Energy and Environment Research
of the University of Puerto Rico

August 1975-February 1976

1974

1970

1966

1965

1363

1960

1982

1975

1974

1370

1966

196s

1962

1967

AREAS OF INTEREST

Coordinator of Sctentific Affairs, Office of the President,

University of Puerto Rico

Health Scientist Administrator, Division of Research
Resources, NIH, on Sabbatical Leave from U.P.

Dean, College of Natural Sciences
University of Puerto Rico, Rio Piedras Campus

Chairman, Department of Chemistry
University of Puerto Rico, Rio Piedras Campus

Director, Graduate studt
University of Puerto Rico, Mayaguez Campus

Director, Neutron Diffraction Program
Puerto Rico Nuclear Center, Mayaguez, P.R.

Director, Nuclear Science and Technology Division
Puerto Rico Nuclear Center

Academic Appointments: Instructor (1952)*;
Assistant Professor (1960); Associate Professor (1962);
Professor of Chemistry (1967)

University of Puerto Rico

Higher Education Administration, Nuclear Chemistry,
Poalytical Chemistry, Management of Federal Health
Science Programs

During the period of 1953-55 served as a Commissioned Officer in the Korean War,

(Cont.

---Page Break---

SOCIETY MEMBER-
SHIPS

PUBLICATIONS

?American Chemical Society, Washington, D. C.

American Nuclear Socity, Washington, D. Cs

New York Academy of Sctences, New York, N.Y,

American Association for the Advancement of Science,
Washington, D.C.

American Institute of Chemists, New York, N.Y,

Chemists Assoctation, Puerto Rico

Academy of Arts and Sciences, Puerto Rico

Science Teachers Association, Puerto Rico

Society of the Sigma xt

Phi Kappa Phi Honorary Society

1s

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL,

POSITIONS HELD

1975 -

1973 - 1975

1973 = 1975,

1973 - 1975

1971 = 1975

1970 - 1971

1966 - 1970

1964 - 1966

Summer

1964

RESUME

+ William Rudolph Bhajan

: 40

B.A.» Intor-American University,

San German, Puerto Rico,

1962, Blology

M. Sc., Michigan State Untversity,

E. Lansing, Michigan, 1966, Ecology

Ph.D., Unversity of Waterloo,

Ontarte, Canada, 1970, Ecology.

= Limnologist, CEER

~ Ecology Consultant,

Environmental Research &
Applications, Cartbtec Labs

= Ecology Professor,
World University,
Hato Rey, Puerto Rico

~ Ecology External Examiner,
University of Guyana,
Georgetown, Guyana.

= Assistant Professor,
Inter-American University,
Hato Rey, Puerto Rico

= Water Pollution Ecologist,
Secretary, Dept. of Health,
San Juan, ? Puerto Rico

~ Teaching and Research in
Fresh Water Ecology,
University of Waterloo,
Ontario, Canada,

~ Teaching and Research in Ecology,
Michigan State University,

E. Lanaing, Michigan.

Research in Terrestrial Ecology,

Dr. H. T. Odum,

Puerto Rico Nuclear Center

(Cont.)

---Page Break---

1962 - 1964

1961 - 1962

1952 - 1959

?PROFESSIONAL

MEMBERSHIP.

~ Instructor (Hato Rey &

Barranquitas Ext. Centers)

Inter-American University,

San German, Puerto Rico.

Laboratory Assistant,

Inter-American University,

San German, Puerto Rico.

~ Elementary School Teacher,

Department of Education,

Georgetown, Guyana.

Beta Beta Beta Biological Honor Society

Puerto Rico Water Pollution Control Association

International Water Resources Association

20

---Page Break---

RESUME

NAME + Arthur McB. Block

AGE : 39

DEGREES + Bachelor in Arts, Cornell University

Ithaca, N. Y. - 1961 ~ Chemistry and Physics

Ph.D. - Rutgers University,

New Brunswick, N. J., 1967 - Physical Chemistry

PROFESSIONAL

POSITIONS HELD

1975 - Present - Scientist I CER

1973 - 1975 = Scientist 1 PRNC

1968 - 1972 - Assistant Prof., U.P.R. ~

Rio Piedras = Chemistry

1967 - 1968 - Lecturer, U.P.R. >

Rio Piedras ~ Chemistry

1961 - 1967 ~ Instructor ~ Rutgers University

1964 - 1965 = Chemist ~ Johnson & Johnson Corp,

1963 - 1964 Chemist - Merck & Co. Inc,

orwer

EXPERIENCE:

1976 - Proposal Reviewer, U.S. Environmental

Protection Agency

1975 = Referee, Journal of Physical Chemistry

PROFESSIONAL,

MEMBERSHIP:

Puerto Rico Society of Microbiologists; American Men & Women of

Science; American Chemical Society/ Puerto Rico Section: Elections Committee
Chairman 1975, Secretary 1976, Chairman-elect 1977; Sigma Xi, San Juan Club,
International Society of Quantum Biologists; Association of Southeastern Biologists;

Colgate-Palmolive Research Fellow (1964-1965) .

PUBLICATIONS Poa

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS HELD

1968 - Present

1963 - 1968

1958-1973

1957-1958

1951-1957

1949-1951

AREAS OF INTEREST

SOCIETY MEMBER-

SHIPS

PUBLICATIONS

RESUME

: Raymond A, Brown

57

Ph.D, ~ Physical Chemistry -

Californa Institute of Technology (1949)

M.S., Physical Chemistry

California Institute of Technology (1947)

B.3., Chemistry

Wagner Lutheran College, Staten Island, N.Y. (941)

Senior Scientist I, PRNC and CEER

Biologist, Radioimmuntology group, Biology Division.

ORNL Oak Ridge

Associate Member, Wistar Institute

Philadelphia, Pa.

Visiting Scientist, Venezuelan

Institute of Science, Caracas Venezuela

Research Scientist, Virus Laboratory

Lederle Lab, Pearl River, N.Y.

N.L.H. Post-doctoral fellow

Immunology, Physical Biochemistry

Fellow, N.¥. Academy of Science, Sigma Xi,

Puerto Rico Society of Microbiologists

65

---Page Break---

ME

DEGREES

PROFESSIONAL

POSITIONS HELD

Jan.77 to Present :

July 7S-Jan, 77

1968-1975

1959-1968

1960-1965

1958-1959

1987-1958

1955-1957

OnMeR EXPERIENCE

1973

1961

1958-59

1958

RESIN,

Brown Campos, Richard

46

Nuclear Technology, Univ. of P. R. (1962)

» Mechanical Engineering, Univ. of P. R. (1983)

Head, Decontamination Proj. § Assoc. Prof. Mech. Eng'g.

Acting Assoc. Dir., CEER § Head Reactor Div.

Head, Reactor Div., Scientist IT, PRNC

Reactor Supervisor, PRNG; Instructor, Mechanical Eng'g.

Dept. RUM-UPR

Reactor Sup. Trainee, PRNC, RUM-UPR

Instructor, Dept. of Physics, RUM-UPR

Field Engineer, Puerto Rico Conent Corp., Ponce, P. R.

Nuclear Power Reactor Safety Course, M.I.T. (Sumer)

AREAS OF INTEREST ;

SOCIETY MEMBER-

SHIPS, HONORS

PUBLICATIONS

Summer Course in Reactor Experiments, Gainesville, Fl

ORML Reactor Supervisor Training Course

ORINS Radioisotope Training Course (Sumer)

Nuclear

College of Engineers, Architects and Surveyors of P. R.

American Nuclear Society

Federation of American Scientists

5

---Page Break---

RESUME

NAME + Jorge Chirtboga

AcE 136

DEGREES M.D., University of San Marcos, School of Medicine

Lima, Peru (1948)

B-M., University of San Marcos, School of Medicine

Lima, Peru (1945)

B.S., University of San Marcos, School of Sciences

Lima, Peru (1941)

PROFESSIONAL

POSITIONS HELD:

1966 - Present Senior Scientist I, Puerto Rico Nuclear Center

(now CEER)

1977 ~ Present Assistant Secretary of Health for Environments!

Health Programs, Department of Health, Commonwealth
of Puerto Rico

1976 ~ Present Consultant to. Catholic University of Puerto Rico
on establishment of a new School of Medicine

1965 - Present Consultant to the Peruvian Atomic Energy Commission

1966 - 1971 Assistant Director for Scientific Programs, PRNC

and Head, Biomedical Division, PRNC

1953-1966 Associate Professor, University of Tennessee

AEC Agricultural Research Laboratory, Oak Ridge

1957 - 1989 Head, Department of Biochemistry, School of Medicine

Arequipa, Peru.

1957 - 1959 Organizer and Dean, School of Medicine

Arequipa, Peru

1956 - 1957 Organizer, Head of Graduate Program

School of Agriculture, La Molina, Lima, Peru

1954-1957 Head, Department of Biochemistry, School of Agriculture,

La Molina, Lima, Peru.

(Cont.)

---Page Break---

© cont.)

1952. - 1953 Fellowship of Biochemical institute (Professor Luis F. Lelott), Buenos Aires, Argentina,

1949 - 1951 Fellowship, Cultural Commission of Argentina

1948 - 1948 Research Associate, Public Health Ministry,

Uma, Ferd

1942 = 1945, Instructor in Pathology, School of Medicine

University of San Marcos, Lima, Peru

AREAS OF INTEREST Biochemistry, Environmental Health

SOCIETY MEMBER-

SHIPS, HONORS :

Member of the "Sociedad Argentina de Patología

y Enfermedades Infecciosas" - 1950. Member of

the "Sociedad Argentina de Dermatología" -

1951, Member of the "Sociedad Peruana de

Anatomía Patológica" - 1957, Member of the

"Directorio de la Sociedad Química" - Peru = 1954~

58. Member of the American Chemical Society,

U.S.A., 1953. Member of the "Sociedad

Latinoamericana de Nutrición" - 1967, Member

of the Division of Biological Chemistry of the

American Chemical Society, 1961, U. S. A.

Member of the Tissue Culture Association, 1966.

Member of the New York Academy of Sciences. 1967.

?Member of the American Society of Tropical Medicina & Hygiene, July, 1963. Member of the Advisory Committee of COLAB (Comité Latinoamericano de Biología, 1968). Member Commission of 4 persons appointed by OAS to establish new policy on Nuclear Energy development in Latin America, 1972.

Honorary Citizen of

1@ Tennessee State - 1963,

Honorary Member of the "Asociación Venezolana para el Avance de la Ciencia", 1966.

Executive Committee Member of the American Chemical Society, Puerto Rico Section, 1968.

PUBLICATIONS :

---Page Break---

RESUME

NAME + Richard G. Clements

AGE + 46

DEGREES + B.S. 1956, Purdue University, *sotis*

Ph.D. 1966, University of Georgia,

Sotls, Bio-chemistry Botany

PROFESSIONAL

POSITIONS HELD

1976 to Present - Chief, Environmental Sciences Division,

Center for Energy and Environment Research

1969 to Present - Head, Terrestrial Ecology Program,

Center for Energy and Environment Research

1968 - 1969 - Research Associate, Institute of Ecology,

Univ. of Georgia. P.1. in IBP studies at

Coweeta, N.C,

1966 - 1968 - Research Associate, Institute of Ecology,
Univ. of Georgia. Field Director of
Terrestrial Studies in Panama and Colombia
in conjunction with Inter-oceanic Canal
Studies .

1963 - 1966 - Research Assistant, Dept. of Agronomy,
University of Georgia. Graduate studies.

1961 - 1963 - Agronomist, Standard Fruit & Steamship
Company, La Ceiba, Honduras.

1961 - 1963 - Head, Quality Control Department,
Standard Fruit & Steamship Company
La Ceiba, Honduras

1956 - 1958 - Soil Scientist, Dept. of Tropical Research,
Standard Fruit Company, La Ceiba, Honduras

PROFESSIONAL

Member + American Society of Agronomy

Sigma Xi

(Cont.)

---Page Break---

PUBLICATIONS:

Association of Southeastern Biologists

Association of Tropical Biology

Ecological Society of America

American Institute of Biological Sciences

American Chemical Society

Soil-Plant-Water Relationships, Mineral

Cycling

20

---Page Break---

va

AGE

PROFESSIONAL,

POSITIONS HELD

1976 to Present

1972 = 1995

1966 - 1971

1961 = 1965

OTHER EXPERIENCE

1968 to Present

1968

AREAS OF INTEREST

SOCIETY MEMBERSHIPS :

PUBLICATIONS

RESUME

Jost Cuevas Ruiz

4s

4M, 8, Radiation Btology (Btology)

UPR, Mayaguez (1966)

J. S. Agriculture

UPR, Mayaguez (1961)

Scientist, Tropical Agro-Science Div.

Center for Energy & Environment. Research

Mayaguez, Puerto Rico

Senior Associate, ABS

Puerto Rico Nuclear Center

Mayaguez, Puerto Rico

Research Associate, ABS

Puerto Rico Nuclear Center

Mayaguez, Puerto Rico

Research Assistant, ABS

Puerto Rico Nuclear Center

Mayaguez, Puerto Rico

Assistant Professor of Horticulture,

Lecturer & Visiting Scientist

and TCAITE, Guatemala

Program?

£ at Quito, Ecuador

rooms in Astoria

Radisson Biology Food Science

Colegio de Agrónomos de Puerto Rico

Sociedad Puertorriqueña de Ciencias Agrícolas

Caribbean Food Crops Society

Gamma Sigma Delta

Institute of Food Technologists

beta Hera Beta

v

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL,

POSITIONS HELD

1976

1975

1972

1970

RESUME

+ Elvira Cuevas Viera

26

+ Bachelor in Science, U.P.R,

December, 1971 Biology

Master in Science

May, 1978 Biology

UPAR,

Present Sctentific Associate III - CEER

1976

1975

1972

Summer, 1972

PROFESSIONAL

MEMBERSHIP

PUBLICATIONS

~ Scientific Associate HII - PRNC

~ Graduate Research Assistant - PRNC

= Teaching Assistant - U.P.R.

~ Division of Solid Waste, Environmental
Quality Board.

Bota, Beta, Beta Biological Honorary Society

?American Institute of Biological Sciences

---Page Break---

Name: Wilhelm Goéchalic nae: 45

Degree; Ph.D.» Biochemistry, Intversity of Leyden, The Netherlante (1/h)

Research Scentist, P.R. Dept, of Health, Div, Eavironm ntal

4 Health

19TT-present? Sentor Selentist 1, center for megy & Favtronment Rese: rch,

: operated by U.P,R, (part tine)

197-1975 Menber Committee on Graduate Studies, U.P.R, Medical Sc/ences

Canpue

1972-1975 Associate Professor, Dept. of Blochentatry & wutrition, U.P.

?School of Medicine

1968-1972 tant Professor, Dept. of Biochemistry, University if

Virginia School of Medicine

1965-1968, Instructor, Dept. of Biochemistry, University of Vircinia

School of Medicine

1965-1968 Research associate, Dept. of Physics, University of Virginia

1964 Research Associate, Dept. of Biochemistry, University of

Leyden, The Netherlands

1963-1964 Chief Research Assistant, Dept. of Biochemistry, University
of Leyden, The Netherlands

1961-1963 Research & Teaching Assistant, Dept. of Biochemistry, University
of Leyden, The Netherlands

1958-1959 Research & Teaching Assistant, Dept. of Inorganic & Physical
Chemistry, University of Leyden, The Netherlands

1956-1964 Control officer, Dutch Public Health Service, Div. special

Regulations Oils & Fat

Areas of interest: chemical carcinogenesis, viruses, protein chemistry,

mathematical modeling, data evaluation

computer, analysis of air and water pollution

Memberships, honors: American Chemical Society, American Chemical Society,

Signa Xt

Lecturer ad honores U.P,

School of dentistry, 19/274

Publications: 18

---Page Break---

NAME

AGE :

DEGREES

PROFESSIONAL

POSITIONS HELD

December 1975 -

Present

May 1976 -

August 1976

October 197% ?

December 1974

January 197% -

June? 1375

January 1970 -

December 1973

2963 - 1969

AREAS OF INTEREST :

SOCIETY MEMBER-

SHIPS, HONOR:

PUBLICATIONS :

D

RESUME

Gary C. Goldman

35

Ph. D., Physical Oceanography

University of Michigan, Ann Arbor (1973)

?My S., Oceanography

University of Michigan, Ann Arbor (1970)

B. S., Mathematics, Physics

Bowling Green State University (1962)

Project Head/Research Oceanographer

Marine Ecology Division, cEER

Mayaguez, P. R.

Acting Head

Marine Ecology Division, ci

Mayaguez, P. R.

Asting Project Director/Research Oceanographer

Department of Natural Resources

University of Michigan

Assistant Research Oceanographer

Earth Technology Resources Division

Environmental Research Institute of Michigan

Ann Arbor, Michigan

Research Oceanographer/Teaching Fellow

Dept. of Atmos. and Oceanic Science

University of Michigan

Experimental Physicist

Inst. Research Division, N.A.S.A.

Lewis Res. Center, Cleveland

Coastal Circulation; Air-Sea Interaction

International Physics Honorary

National Mathematics Honorary

Marine Technology Society

Institute of Environmental Science

American Assoc. for the Advancement of Science

American Geophysical Union

1s - 20

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS HELD

July

= Present

September

1974 - Present

74

10-73

172

i971

1966

AREAS OF INTEREST

6-74

674

12-73

7-72

1972

isa

RESUME

: Santiago F, Gomez

?a

M.S., Physics

Gothic University of America, Washington, D.C. (1962)

M.S., Radiological Health

University of Puerto Rico (1973)

B.S., Science

Instituto De La Salle, Bogota, Colombia (1958)

Sentor Associate, Health and Safety

Division, CEER formerly PRNC)

Radiological Safety Officer

Veterans Administration Hospital, San Juan

(assigned by CEER)

Professor of Physics, Universidad

Industrial de Santander, Bucaramanga,

Colombia

Deputy Director, Air Quality Control
Program, UIS & Western Kentucky
University, Bucaramanga, Colombia

Lecturer, School of Medicine
Universidad Industria. de Santander (UIS)

Research Associate, PRNC
Mayaguez, Puerto Rico

Coordinator of Physics Program,
Universidad Industria. de Santander

Associate Professor of Physics
Universidad Industria: de Santander

Physics, Radiological Health, Health and Safety

(Cont)

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12 Cont.)

SOCIETY MEMBER-

SHIPS, HONORS

Puerto Rico Chapter, Health Physics Society

American Association of Physicists in Medicine

Radiological Science Associates, Puerto Rico

Nuclear Medicine Society of Puerto Rico

PUBLICATIONS

---Page Break---

NAME,

AGE :

DEGREES

PROFESSIONAL

POSITIONS

HELD.

1976 = Present

1963 - 1976

1957 - 1969

OTHER

EXPERIENCE :

AREAS OF INTEREST:

SOCIETY MEMBER-

SHIPS :

PUBLICATIONS =;

B

RESUME

Juan G. Gonzalez

Ph.D.

Ph.D., Biological Oceanography

University of Rhode Island, Kingston (1973)

M.S., Biological Oceanography

Texas A&M University, College Station (1957)

B.S., Zoology

University of Puerto Rico, Mayaguez (1958)

Scientist T

Head, Marine Ecology Di

sion, CEER

Aquatic Biologist

Environmental Research Laboratory

Narragansett, R.I.

Professor, Marine Sciences

University of Puerto Rico

Teach Science, Department of Education

Commonwealth of Puerto Rico

Plankton, Physiology and Taxonomy

Primary Productivity

Polluting effects in the marine environment

American Men and Women of Science

Leaders in American Science

as

---Page Break---

RESUME

NAME

Brent Holben

AGE 2 26

DEGREES + B. 8. University of idaho, 1972, Sots

M. S. Colorado State University, Colorade, 1975.

Bioclimatology..

PROFESSIONAL,

POSITIONS HELD

1975 - Present Sctentific Associate III - CEER

PROFESSIONAL

SOCIETIES

American Meteorological Society

Sigma Xt, Colorado

PUBLICATIONS

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS HELD

1976 - Present

1965 - 1975

1965 - 1975

1960 - 1965,

1959 - 1960

1958 - 1959

1954 ~ 1955

1951 - 1954

1949 - 1981

1945 - 1949

RESUME

Modesto Irtarte, Jr.

1 53

Ph.D., Nuclear Engineering

University of Michigan (1958)

M.S., Electrical Engineering

Texas A & M, (1949)

B.S., Civil Engineering

University of Puerto Rico (1951)

B.S., Electrical Engineering

University of Puerto Rico (1945)

Consultant to Center for Energy and

Environment Research

Acting Executive Director, Puerto Rico

Water Resources Authority (PRWRA various occasions)

Assistant Executive Director, PRWRA,

Electrical Planning Research and Construction

Director, 4 Divisions: Electrical Planning and
Research, Nuclear and Environmental,

Power Design Construction, Engineering and
Construction.

Senior Electrical and Nuclear Power Engineer,
PRWRA.

Staff Engineer, General Nuclear Corp., for
Design of PRWRA BONUS Nuclear Plant,

Electrical Planning Engineer, PRWRA

Load Dispatcher Superintendent, PRWRA

Electrical Design Engineer, PRWRA

Assistant Professor, Electrical Engineering
University of Puerto Rico, Mayaguez

Instructor, Electrical Engineering,
University of Puerto Rico, Mayaguez

(Cont.)

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AREAS OF INTEREST

SOCIETY MEMBER-

SHIPS, HONORS

PUBLICATIONS

13 Coat.)

+ Electrical Engineering, Nuclear Engineering,
Electrical Power Transmission

Member, American Ir.

Electronic Engineers

Member, American Nuclear Society

Member, Soctedad irteramericana de Planificacion

Member, Colegio de Ingenteros, Arquitectos y

Agrimensores de Puerto Rico

Member, Puerto Rico Association of Electrical
Engineers

Appointed by U.S. Secretary of the Interior to a
U.S. State Department Electric Power Team to
review and exchange information with the electric
power industry of West Germany in November 1967.

Deputy Director, Defense Electric Power Adminis-
tration, Power Area 1, 1970 to 1978 - appointed by
U.S. Secretary of the Interior.

tute of Electrical and

B

---Page Break---

NAME

AGE:

DEGREES

PROFESSIONAL

POSITIONS

ELD

January 1976

Present

1973 = 1976

1966 = 1973

AREAS OF
INTEREST.

PUBLICATIONS

RESIN,

Nimia E, Irizarry

32

+ MS. Radiological Health

University of Puerto Rico

School of Public Health at the Medical Sciences Campus (1973)

University BF Pusrto Rico, Mayaguer Campus (2966)

Senior Associate

Health & Safety Division, CEER

Mayaguez, PLR.

Scientific Associate I

Health & Safety Division, CEER

Mayaguez, PAR.

Research Assistant III

Marine Biozogy

Mayaguez, PAR,

+ Health Physics, Industrial Safety

ae

16

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NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS HELD

1975 - Present

1972 - 1975

1969 - 1972

1968 - 1969

1961-63, 66-68

OTHER

EXPERIENCE :

?AREAS OF INTEREST

SOCIETY MEMBER-

SHIPS

PUBLICATIONS

+ William R. Jobin

RESUME

S.B., Civil Eng.

MALT, 0959)

§.M., Sanitary Eng.

MALT. (96)

Se.D.,

Harvard Tropical Public Health (1966)

Head of Human Ecology - CEER

Consulting Engineer, International-Schistosomiasis

?and Water Pollution.

Sanitary Engineer ~ State of Mas:

Water Pollution.

Field Surveys on

Research Associate, M.I.T. - HYDRODYNAMICS

?Assistant Chief - USPHS Lab. in San Juan - SCHISTOSOMIASIS,

Member World Health Organization Expert Committee

on Schistosomiasis.

Consultant to World Bank, Clark Foundation, U.S.A. [D.,
PAHO, U.N.E.P., W.H.O., USPHS, Nobel Foundation,
NIH, and private firms on Schistosomiasis in Mauritania,
Mali, Senegal, Ghana, Swaziland, Rhodesia, Brazil,
Venezuela and Caribbean Islands.

|

|

Environmental Health, Schistosomiasis |

American Society of Tropical Medicine and Hygiene,

22

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NE

Me

DesReES

PROFESSIONAL

Partitions

HELD

Sent. 1975

Prasent

1964 ~

Present,

1962-1964

1960-1962

1959-1960

1957-1959

1956-1957

1953-1956

AREAS OF
INTEREST

SOCIETY MENBFR-

SHIPS, HONORS

1959-1960

1975

197

1975

1976-1977

PUBLICATIONS

18

CURRICULUM VITAE

Mortimer I. Kay

Mortimer I. Kay

46

Ph.D. (Phys. Chem.) University of Connecticut - 1957

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

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

Head, Materials Science Division

Head, Neutron Diffraction Program (REC, 64-72; NSF, 73-77)

Research Associate Professor of Chemistry, Engineering Experiment
Station, Georgia Institute of Technology.

Solid State Physicist, NASA,

Post-Doctoral Fellow, Royal Norwegian Council for Scientific and

Research, Institute for Atonenergi, Kieller, Horway,
Research Associate and Visiting Associate Physicist, Penn State
University and Brookhaven National Lab.

Research Assistant in Crystallography, University of Connecticut
Graduate Assistant, University of Connecticut.

Graduate Assistant, Purdue University.

Crystal & Molecular Structure, Thermal Motion, Correlation with
Electrical Properties of Materials.

American Chemical Society, American Physical Society, American Crystallo-
graphic Assn., American Assn. Adv. Sci., Society of Signal

NGIE Post Doctoral Fellowship-Kjeller, Norway; Fulbright Travel
Grant.

Invited Talk to American Crystallographic Assn., Clemson, S.C.

Invited Lecture to An. Assn. Physics Teachers, San Juan, P.R.

Organizing Committee: International Conference on Low Frequency

Optical Modes, Ferroelectricity & Superconductivity, San Juan, P.R.

Coeditor of Proceedings.

---Page Break---

NAME,

AGE

DEGREES

PROFESSTONAL

POSITIONS HELD

July 1975 -

Present

Feb. 1974 -

June 1975

Sept. 1971 -

Feb. 1973

oct. 1968 -

?Aug. 1970

OTHER

EXPERIENCE

AREAS OF

INTEREST

SOCIETY MEMBER-
SHIPS

PUBLICATIONS

RESUME

Joseph J. Kimnet

a4

A-B. = General Science, East Carolina
University - 1968

N.S. ~ Biological Oceanography, old
Dominion University - 1973

Research Associate Tt
Marine Ecology Division - C.E.£.R,
Mayaguez, P.R.

Research Associate IT
Radioecology Division ~ P.R.N.C.
Mayaguez, P.R.

Teaching Assistant

Old Dominion University

Sanitarian

VA. State Health Department

Fish Taxonomy

Diver - NAUI Certificate

Numerous eru:

and geology

Saturated diving in La Chalupa

jobs involving fish work

Ecologically oriented fish research.

Response of organisms to stress.

American Society of Ichthyologists &

Herpetologists

American Fisheries Society

American Museum of Natural History

International Oceanographic Society

4

---Page Break---

nae

DEGREE

PROFESSIONAL

POSITIONS HELD

1968,

1961

1972

1974

1967

1965,

1961

1953

1981

AREAS OF INTEREST

SOCIETY MEMBERSHIP

to Pres

co Present

to Present

+ 1968

= 1961

= 1953

HONORS

PUBLICATIONS

RESUME

Francis K. S. Koo

e

Ph. D., University of Minnesota (Plant
Genetics) 1950,

Senior Scientist and Head, Tropical Agro-Sciences
Division, Puerto Rico Nuclear Center (now CEER)

Professor of Biology, (Ad Honorem) University of
Puerto Rico

Prof

Professor of Agronomy, University of Puerto Rico

UNDP-IAEA Expert in genetics, Center of Nuclear
Energy in Agriculture, Brazil (3 months)

Chief Scientist, Agricultural Bio-Sciences Div.,
Puerto Rico Nuclear Center

National Visiting Professor, National Taiwan
University, Taiwan

Associate Scientist, Agricultural Bio-sciences
Division, Puerto Rico Nuclear Center

Project Leader, Oats and Rye Improvement, University
of Minnesota. (Breeder of two oat varieties
Minland and Minhafer, released in Minnesota.)

Research Fellow, University

of Minnesota

Radtation genetica and Radiobtology

Genetic Society of Ame-tea

Radiation Research Society

Signa Xi Society

AAAS

Gamma Signa Delta

3

---Page Break---

Name

Age

Degrees

a

Aldo E. Lanaro, 4.0.

37

Nuclear Medicine Board, v.3.8., 1972

Puerto Rico Board of Medical Beaniner

M.D., Univ. of Buenos Aires, Argentina, 1990

Professional Positions Held:

1971-present

1963-1970

Other Experience:

1974-present

1973-present

1957-1963,

1954+1960

Other Activities:

197b-present

1963-present

1954-1963

Senior Scientist 11 and Director
Nuclear Medicine Division, CEER

Associate Professor in Nuclear Medicine
UPR School of Medicine

Associate Scientist 11
Clinical Applications Division, PRNC

Consultant, Nuclear Medicine
Veterans Administration Center

Courtesy Member in Nuclear Medicine
Hospital del maestro
Hospital Presbiteriano
Hospital Metropolitano

Director of the Radioisotopes Department
of the Endocrinology and Metabolism Hosp.
Buenos Aires, Argentina

In charge of the Radioisotopes Department

of the Research Medical Center at the
Tornd Hospital, Buenos Aires, Argentina

Member of the Advisory Committee of the
"Revista de Biología y Medicina Nuclear"

Journal published by the ALASBLM
(Asociación Latino-Americana de Sociedades
de Biología y Medicina Nuclear)

Member of the Organizing Committee of the
Argentinian Society of Nuclear Medicine, 1963

Associate professor in Biological Physics

Of the School of Medicine of the University
Of Buenos Aires, Argentina

(Cont.)

---Page Break---

Aldo E. Lanaro, M.D.,

Area of Interest :

Society Membership:

Publications:

Nuclear Medicine and Endocrinology

Argentine Medical Association

Argentinian Society of Endocrinology and Metabolism

Puerto Rico Chapter of the Health Physics Society

Puerto Rican Society of Nuclear Medicine

American Association for the Advancement of Science

Health Physics Society

Peruvian Soc. of Biology and Nuclear Medicine

(Honorary Member)

Society of Nuclear Medicine

American Heart Association

Puerto Rico Medical Association, 1974

American Medical Association, 1374

American College of Nuclear Physicians, 1975

2a

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS

HELD

April 1976 -

Present

1975 - 1976

197 - 1975

1973 = 197%

1970

OTHER

EXPERIENCE

AREAS OF

INTEREST

SOCIETY MEMBER-

SHIPS, HONORS

PUBLICATIONS:

. 22

RESUME

José Manuel Lépez

27

Ph.D.» Environmental Sciences (Chemistry)

The University of Texas at Dallas (i376)

N.S., Water Chemistry

University of Wisconsin (1973)

B.S., Chemistry

University of Puerto Rico (1970)

Marine Ecology Division, C=ER

Mayaguez, P.R.

Lecturer, Environmental Sciences

The University of Texas at Dallas

Associate Research Scientist/Engineer

?The University of Texas at Dallas

Research Assistant

Texas AGM University

Instructor of Chemistry

Miguel Such Vocational School, Puerto Rico

Industrial consulting assessing significance of thermal and chemical pollutant discharges to various U.S. Great Lakes, rivers and estuaries.

Sources, significance and fate of chemical
contaminants in the environment.

American Society of Limnology and Oceanography

American Chemical Society

American Assoc. for the Advancement of Science

Professor Ad Honorem, Department of Biology, UPR

7

---Page Break---

2

RESUME

NAME + Victor A. Marcial, M.D.

AGE 1 3

DEGREES: M.D., Harvard University (1949)

B.S., University of Puerto Rico (1944)

PROFESSIONAL

POSITIONS HELD.

1958 to present Head, Radiation Oncology Division

1967 to present Associate Director for Medical Programs

1974 to present Act ter, Department of Radiological Selences, UPR School of

Medicine

1958 to present Professor and Chief of Division of Rodiation Oncology, UPR School of

Medicine

1958-70 Attending and Chief of Radiation Therapy Department, 1. González

Martinez Oneologic Hospital

1955-65 Director, Cancer Control Program, Puerto Rice Department of Health

society Former

MEMBERSHIP,

HONORS "Fellowship, National Cancer Institute

Fellowship, American Cancer Society

Alpha Omega Alpha, Honorary Medical Society

Counselor for Puerto Rico, Radiological Society of North America

Counselor for Puerto Rico, Interamerican College of Radiology

Member, Committee for Radiation Oncology Studies, MLC P

Member, Clinical Cancer Training Committee, NC

Member, Cancer Commission, American College of Radiology

Member, Cancer Management Committee of the American College of
Radiology

Chairman, Interagency, Commit

tee on Health

Member, Committee for Clinical Research, Radiotherapy Commission,

American College of Radiology

Secretary for the Americas of the International Club of Radiotherapists

President, Tenth Interamerican Congress of Radiology

President, Radiological Society of Puerto Rico

President, American Radium Society

Most Outstanding Young Physician in Puerto Rico for the Year 1962, Junior

Chamber of Commerce, San Pedro, Puerto Rico

for Tobacco and Health, P. R. De~

Present

flamber, Soar? of Governors, American Federation of Clinical Oncologic

Societies

Member, Clinical Cancer Education Committee, National Cancer Institute

(Cont.)

---Page Break---

23 (Cont)

President, Puerto Rico Division of the American Cancer Society

?Chairman, Radiotherapy Commission, Interamerican College of Radiology

Member, Scientific Committee of the XII International Cancer Congress,

Chairman, Department of Radiological Sciences, University of Puerto

Rico School of Medicine

Associate Director for Clinical Programs, Puerto Rico Comprehensive

Cancer Center

AREAS OF

INTEREST Radiation Oncology.

PUBLICATIONS; 44

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL,

POSITIONS HELD

1976 ~ Present

1975

1974

1969

1966 = 1969

?AREAS OP INTEREST

SoctETY MEMBER-

SHIPS

PUBLICATIONS

RESUME

1 Cruz Marfa Nazario

33

+ B.S. University of Puerto Rico

Rio Piedras, Puerto Rico

M.S. University of Puerto Rico

Medical Sciences Campus,

Rio Piedras, Puerto Rico

Research Associate MI, CEER,

Computer Programming, Statistics

Mathematics Instructor,

C.U.T., Caguas, Puerto Rico

Technical Assistant, PRNC

Health & Safety

Instructor, Department of

Education, Barranquitas

System Programmer I,

Department of Education

: Statistical Epidemiology

Computer Programming

+ Health-Physics Soc.oty, P.R. Chapter; American

Public Health Association, Speleological Society

of Puerto Rico.

1

---Page Break---

RESUME

NAME + José C. Pacheco Diaz

ACE 1 35

DEGREES 1 M,S., Radiological Heaith,

University of Puerto Rico, Medical Scences Campus (1970)

B.S., Mathematics

University of Puerto Rico, Mayaguez Campus (1965)

PROFESSIONAL

POSITIONS HELD di

1976 - Present Head, Medical Physics Section

Center for Energy and Environment Research

1974 - Present Instructor, Department of Radiological Sciences,

University of Puerto Rico, School of Medicine

1967 - Present Instructor, Radiological Physics

Presbyterian Hospital, San Juan, Puerto Rico

1972 - 1976 Research Associate II, Medical Physics

Puerto Rico Nuclear Center (now CER)

1971 - 1975 Ad-Honorem Instructor, School of Public Health

University of Puerto Rico

1970 - 1972 Research Associate I, Radiotherapy and Cancer

Division, Puerto Rico Nuclear Center

1965 - 1969 Radiation Protection Specialist I,

Department of Health, Commonwealth of Puerto Rico

AREAS OF INTEREST: Radiological Science related to electron treatment of malignant disease:

SOCIETY MEMBER-

SHIPS, HONORS

Member, Puerto Rico Chapter

Health Physics Society.

Member, Puerto Rico Nuclear Medicine

Society,

Member, American Association of Physicists

in Medicine.

PUBLICATIONS

---Page Break---

age

Degrees

Professional

Positions. Held

August 1976 to

Present

July 1970 to

July 1976

July 1967 to

1970

June 1967 to

July 1967

August 1964 to

June 1967

July 1967 to

Present

?August 1960 to

July 1964

July 1958 to

?July 1960

Other Experience

Dec. 1952 to

Dec. 1954

1973

1976

1968-1969

1969-1970

1970-1371

1973-Present

1978

Areas of Interest

Publications

Memberships

+ Phi Eta Sigma, Pi Tau Sigma, Tau

RESUME

Knud Borge Pedersen

a

Ph.D. Nuclear Engineering, Iowa State Univ. , 1967

H.S./Nuclear Engineering, Iowa State Univ," 1964

8.5. Mechanical Engineering, Iowa State College, 1956

Associate Professor, RUM

Assistant Professor, Nuclear Eng., Univ. of Puerto Rico, AUM

Assistant Professor, Iowa State University

Instructor, Nuclear Eng., Iowa State University, Ames, Iowa

Scientist, Senior Scientist, Puerto Rico Nuclear Center,

Mayaguez, P.R.,

Junior Engineer, Ames Labor

ory, Ames, twa

Development Engineer, Outboard Marine Corp., Waukegan, 111

2 U.S. Army, Corporal

Research Participant, Oak Ridge National Laboratory, Oak

Ridge, Tennessee

Fellow, NASAASEE Systems Design Summer Faculty Program,

Johnson Space Center, Houston, Texas,

+ Vice President, Parents-Teachers Organization, Campus School ,

TAU, San Geronimo, Puerto Rico

: Chairman, School Board, Campus School, 1AU

Member, President's Council of Inter American University,

San Geronimo, P. R.

Member, Board of Directors, YMCA, Mayaguez, P. R.

Member, League of Women Voters, Puerto Rico

Thermo Sei

6

nces, Nuclear Power Plants, Environmental impacts

PI, Honorary Fraterniti:

Aner can Nuclear Society, Member, co-founder of Latin Aner ice

?Section

Amer can Society for Engineering Education

Phi Kappa Phi Honor Society

Wilderness Society

Sociaty for Prevention of Cruelty to Animals

---Page Break---

Name

Age

Degrees

Professional

Positions Held

Dec. 1966 to

Present

Other Experience

Areas of Interest :

Society Member=

ships, Honors

Publications

27

RESUME

Herizerto Plaza-Rosado

33

Ph. 9., Nuclear Engineering, Texas A & M Univ. (1966)

H.S.5 Nuclear Technology, Univ. of P. R. RUM (1963)

B.S., Electrical Engineering, Univ. of P. R., RUM (1961

neering Professor, RUM, and Scientist, Nuclear
reering Division, CEER, Mayaguez, Puerto Rico

Auburn University Post Doctoral Fellow, Energy Con
Program. (August 27, 1976 - May 6, 1977)

Net ineray Analysis and Economies of Energy Systems, Energy
Conservation.

American Society for Engineering Education

Tau 3eta Phi

Phi <appa Phi

10

---Page Break---

PROFESSIONAL

POSTIONS HELD

vetober 1975 -

Present,

uly 1976 =

© 1875

Aug. 1971 -

June 197%

May-August 1971

June 1969 -

June 1970

OTHER EXPERIENCE :

AREAS OF INTEREST:

SOCIETY MEMBER-

SHIPS

PUBLICATIONS

28

RESUME

Hilda M, Rojas

27

Master of Science, Biological Oceanography

Department of Marine Science

University of Puerto Rico (1976)

Bachelor of Science, Zoology

University of Maryland (1971)

Research Associate I

Marine Ecology Division, CEER

Mayaguez, P.R.

Research Associate T

Radicecology Division, PRNC

Mayaguez, P.R,

Research Associate

Department of Marine Science, UPR

Mayaguez, P.R,

Head Chemistry Section

Student Originated Studies Program

National Science Foundation

Washington, D.C.

Laboratory Assistant

Biochemistry Department

University of Maryland

Diver - NAUI Certificate

Benthic Taxonomy

Marine algal taxonomy

Research in plankton and marine algal biology

TOF, Smithsonian, NAUZ

---Page Break---

NAME

AGE

DEGREES,

PROFESSIONAL

POSITIONS HELD

October 1976 = Present

August 1970 - Present

January 1970. ~ Present

June 1972 - June 1974

June 1962 - July 1970

August 1960 ~ May 1962

October 1960 - Nov. 1960

July 1959~ July 1960

April 195;

= June 1959

January 1952 - May 1953,

AREAS OF INTEREST

Socery Mematt

SHIPS

PUBLICATIONS

RESUME, 29

: Frederick Edward Rushford

M.S., Biology (required course credits completed)

University of Puerto Rico, Rio Piedras Campus

B.S., General Science

Trinity College, Hartford, Connecticut 1959)

Head, Training Program

Center for Energy and Environment Research (CEER)

Educational Officer

CER, formerly Puerto Rico Nuclear Center (PRNC)

Head, Training and Information Division

CER, formerly PRNC

Coordinator for Nuclear Programs, President's,

University of Puerto Rico, Joint Appointment #38 Hat Rc,

Technical Assistant to the Director

Fuerto Rico Nuclear Center

Teacher, Science and Mathematics

Antilles High School, U. S. Naval Station, San Juan

Assistant Scientist, Oak Ridge Institute of Nuclear

Studies, assigned to USAEC Exhibit, Buenos Aires, Arg.

?Traveling Science Teacher

Oak Ridge Institute of Nuclear Studies

Teacher, Science and Mathematics

Antilles High School, U. S. Naval Station, San Juan

Medical Laboratory Technician, Military Service

Rodriguez Army Hospital, San Juan, Puerto Rico

+ Educational Administration, Science Education,

Technical Information

Puerto Rico Teachers Association

National Education Association

Puerto Rico Science Teachers Association

Puerto Rico Chapter, Health Physics Society

American Nuclear Society, 1965 - 1976

3, served as Editor for PRNC, now CEER, Annual Reports

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS HELD

1972 = Present

1975 - 1976

1964-1972

1963-1968

1960 - 1961

1960-1969

AREAS OF INTEREST

SOcTETY MEMaER-

SHIPS, HONORS

PUBLICATIONS

30

RESUME

+ Rosa Julia Santiago

4

M.S., Health Physics

University of Puerto Rico, Mayaguez (1963)

B.S., Biology

University of Puerto Rico, Mayaguez (1960)

Research Associate [:, Marine Ecology

Puerto Rico Nuclear Center (now CER)

Acting Head, Bikin! Project, PRNC

Research Associate I, Marine Biology

Puerto Rico Nuclear Center

Research Assistant II, Resonance in
Radiation Effects Project, PRNC

Staff Member, Summer Institute of
Radiation Biology, PRNC

Research Assistant I, Health Physics
Division, PRNC

1 Biology, Health Physics

Health Physics Society

Puerto Rico Chapter, Health Physics Society
Beta, Bota, Beta

0

---Page Break---

RESUME,

Nay 1977

NAME + Sasscer, Donald 5,

NE 247

DEcRES 1 Ph.D, Nuclear Engineering, ova State Univ., 1964

N.S., Nuclear Engineering, Towa State Univ., 1959

3.S., Mechanical Engineering, Univ. of Utah, 1955

PROFESSIONAL

POSITIONS HELD

Jan, 197 to: Acting Associate Director, CEER

Present

1964 to present: Assoc. Prof., Prof. of Nuclear Enginecring, RUM-UPR

1964 to present: Scientist II, Chief Scientist II, Nuc. Eng'g., CEER

1966 to Present: lead, Nuclear Technology Division of CEER

?Aug. 76 to Jan. 76: Energy Coordinator, School of Engineering, RIN-UPR

1966 to 1976s Director, Dept. of Nuclear Engineering, RUR-UPR

1961 to 1964 Assist. Prof., Assoc. Prof., Nuclear fng., fova State Univ.

1961 to 1964 Research Scientist, Nuclear fng'g., Anes Lab. USABC

1956 t0 1959 Instructor, Theoretical and Applied Mech., Iowa State Univ.

Nov, £5 to Jan.56 : Industrial Engineer, U.S.A.F., Hill Airforce Base, Utah

June 56 to Aug.56 : Mechanical Engineer, McDonnel Aircraft Corp.

1953 to 1955: Ind Lt., Ist Lt., Guidance System Officer, U.S.A.F.

June 53 to Dec.S3 : Mechanical Eng'g., Douglass Aircraft Corp.

Nov. 1968 + Consultant, Commonwealth Oil Refining Company, part-time

AREAS OF INTEREST : Nuclear, OTEC

SOCIETIES, MEMBER-

SHIPS, HONORS: Member, American Nuclear Society (ANS)

i Member, Health Physics Society (HPS)

i Member, American Society for Engineering Education (ASEE)

USABC Special Fellow, 1959-1961

: Member Engineering Honor Society of Tau Beta Phi

Member of National Honor Society of Phi Kappa Phi

Listed in American Men and Women of Science

: Recipient of Award by Engineers, Architects, and Surveyors

3 Society (Colegio de Ingenieros, Arquitectos y Agrimensores)

Of Puerto Rico in recognition Of contribution to the education

tion of professional engineers in Puerto Rico, August 1974,

PUBLICATIONS =: 18

---Page Break---

NAME,

AGE :

DeGREES

PROFESSIONAL

POstTTONS

HELD

1072 - Present :

1972 - Present :

197. - 1972

1969 - 1971

1967 - 1969

owweR

EXPERIENCE

AREAS OF

INTEREST

SOCIETY MEMBER-

SHIPS, HONORS

PUBLICATIONS.

RESUME

Rama S. Singh

39

Ph.D. Electrical Engineering (Solid State), Univ. R.1. (1971)

M.Sc. Physics, Banaras Hindu University, India (1959)

B.Sc. with Honors in Physics, Banaras Hindu Univ., India (1959)

Asst. Prof., Department of Physics, RUM-UPR,

Scientist I (Joint Appointment), CEcR

NRC Postdoctor fellow, U.S. Army MUCOM and Nat'l. Bureau of
Standard, Washington, D.C.

Instructor, Department of E.E. University of Rhode Island.

Research and Teaching Asst., Dept. of E-E., U.R.I.. Rhode Island

Research Collaborator, Department of Physics, Brookhaven National

Laboratory during summer of 1976.

Phase Transition in Crystals, Light Scattering, Solar Energy

Storage and Selective Surfaces of the Collectors.

American Physical Society

Institute of Electronics and Electrical Engineer

Phi Kappa Phi

11, one in press, three in preparation

---Page Break---

NAME

AGE

DEGREES

PROFESSIONAL

POSITIONS HELD

1975 - Present

1973 - 1975

1973

OTHER

EXPERIENCE

AREAS OF INTEREST

SOCIETY MEMBER-
SHIPS

PUBLICATIONS

RESUME

Vance Peter Vicente

27

M.S.) Biological Oceanography

University of Puerto Rico, Mayaguez (1973)

B.S., Biology

University of Puerto Rico, Rio Piedras (1970)

Research Associate IIT

Marine Ecology Division, CEER

Mayaguez, P.R.

Research Associate II

Radioecology Division, CEER

Mayaguez, P.R.

Assistant Science Program Coordinator

PRINUL

San German, P.R.

Cooperative Consultant for sponge-ecology
and? taxonony.

Cooperative Consultant for s
Diological studies.

Benthic Ecology ? Seagrass bed ecology,
Mangrove root communities, coral r
ecology: Sponge ecology and eaxcnoay:

International Association of Aquatic Vascular
Plant Biologist (TAAVPB)

Association of Island Marine Laboratories of
the Caribbean (ATMLC)

National Association of Underwater Instructors (NAUI)

International Oceanographic Foundation (TOF)

Oceanic Society

American Museum of Natural History (Associate)

Sociedad Española de Auxilio Mutuo y

Beneficiencia de Puerto Rico (Associate)

7

---Page Break---