



THE CITADEL

29 November 2019

Dear Krause Center Award Selection Committee:

It is my distinct privilege to present the nomination of Dr. John M. Palms '58, CAPT, USAF (Ret.), for the Krause Center Award for Distinguished Service, Leadership, and Ethics. An internationally recognized scientist and academician, national security advisor, eminent educator and public servant, distinguished Citadel graduate, and tireless advocate for humanitarian causes, Dr. Palms exemplifies to the highest degree, the ethos of the Krause Award and the essence of servant-leadership. His is the story of a life well-lived, a man running to win the prize for the upward calling.

Born in the Netherlands, John M. Palms immigrated to the United States in 1951, becoming a Citizen in 1956. He graduated from The Citadel as a distinguished Air Force ROTC cadet in 1958, receiving a commission into the United States Air Force. While on active duty with the USAF, Dr. Palms completed a master's degree in physics, served as a nuclear weapons officer, and taught physics at the US Air Force Academy. After being honorably discharged in 1970, he completed the Ph.D. in physics and joined the faculty of Emory University, where he rose through the ranks, ultimately being appointed as the Charles Howard Chandler Professor of Radiation and Environmental Physics. His 23-year career at Emory was one of ever-increasing responsibility and leadership, culminating in his role as the University's Chief Academic Officer. This accumulated experience led to a two-year turn as president of Georgia State University, after which he accepted the invitation to become the 26th president of the University of South Carolina (USC), a post which he served faithfully and fruitfully for 12 years.

During the Palms presidency, USC enjoyed a period of increased service and effectiveness, including the largest capital campaign in the history of state (\$500 million), a 50% increase in external funding for research to \$123 million, a \$300-million investment in campus infrastructure, and an 11% increase in enrollment at the seven campuses outside Columbia. Though an impressive record for a university president, what is more impressive and demonstrative of Dr. Palms' commitment to servant-leadership was his insistence on shaking the hand of every graduate at every campus throughout the state. In the course of USC's Bicentennial Celebration, he led the focus on reconnecting the University to the citizens of South Carolina. He retired from USC as Distinguished President Emeritus and Distinguished Professor Emeritus.

Swain Family School of Science and Mathematics

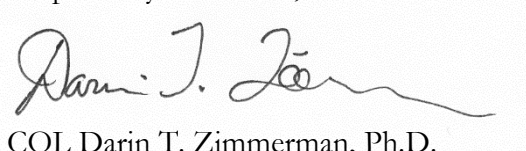
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His expertise in radiation physics and his accumulated business experience led to service in numerous advisory roles – as a member of the National Nuclear Accreditation Board, the Advisory Council for the National Academy of Nuclear Training, and as leader of the team that designed the environmental radiation monitoring program in the wake of the Three-Mile Island Nuclear Power Plant accident. Further, he served for twenty-one years on the board of Exelon Corporation, the largest nuclear utility in the US, five years as board Chairman for Assurant Corporation, and ten years as Chairman of the Institute for Defense Analyses, a federally-funded non-profit, advising the Secretary of Defense and other federal agencies including the National Institutes of Health, the National Science Foundation, the Department of Energy, and the Office of Science and Technology. Moreover, he served on the board of The Geo Group, one of the largest public prison companies in the world, and Computer Task Group, an information technology company.

Perhaps what separates Dr. Palms from his peers, many of whom have enjoyed lives of distinguished leadership, is his volunteerism and advocacy for those less-visible humanitarian causes that impact all members of society. For his educational contributions within the Catholic Church, Dr. Palms and his wife Norma received the Papal Honor Pro Ecclesia et Pontifice Cross from Pope Benedict XVI, the highest honor that is bestowed on a lay person. He served on the board of the Nederland American Foundation, Chairing the Education Committee, which is responsible for supporting Fulbright scholar exchanges between the US and the Netherlands. He is active supporter of numerous volunteer and charitable organizations including United Way, Spoleto Festival USA, and is an active member of the Swain Family School of Science and Mathematics Dean's Advisory Council.

Despite his numerous accolades and many top-tier administrative and advisory roles, John Palms is a humble human being, who thinks of others before himself, and who sees and seeks the good in his fellow man. For all his honorific service and life-long pursuit of excellence with integrity, exemplifying the core values of honor, duty, and respect, I implore you to consider him for the Krause Center Award for Distinguished Service, Leadership, and Ethics, a fitting tribute to a life well-lived and a model alumnus of The Citadel.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Darin T. Zimmerman", with a stylized flourish at the end.

COL Darin T. Zimmerman, Ph.D.

Dean and Professor of Physics

Swain Family School of Science and Mathematics

JOHN MICHAEL PALMS, Ph.D., ScD (Hon), LHD (Hon)
Vitae

- Current Academic Position:** Distinguished University Professor Emeritus, 2007-present, Distinguished President Emeritus, University of South Carolina, 2002-Present
- Personal:** Born, Rijswijk, The Netherlands 1935 – Naturalized U. S. Citizen (1957)
- Education:**
- 1959-1966 University of New Mexico, Ph.D. (Physics), 1966 (Dissertation, University of California, Los Alamos Scientific Laboratories)
 - 1958-1959 Emory University, M.S. (Physics)
 - 1954-1958 The Citadel, B.S. (Physics)
 - 1953-1954 St. Petersburg Junior College (one semester)
 - 1951-1953 Clearwater High School, Clearwater, FL
 - 1949-51 St. Alloysius College (High School), The Hague, The Netherlands
- Special Honors:**
- 2014 Establishment of the Annual Dr. John M. Palms Outstanding Innovation Award for Exceptional Contributions to the Nuclear Power Industry in maintaining a safe and effective working environment for nuclear plant personnel, Department of Nuclear Engineering, Plasma and Radiological Engineering, University of Illinois Urbana, Champaign, Illinois
 - 2012 Naming of a major research building, the John M. Palms Center for Graduate Science Research, University of South Carolina.
 - 2012 Distinguished Service as Board Member The Institute for Defense Analyses (1988-2012) and Chair (1998-2012), Alexandria, VA
 - 2012 Exelon Corporation Scholarship Program John M. Palms, Ph.D., Linn State Technical College (\$5,000 Annually), Linn, MO
 - 2012 Exelon Corporation Executive Committee Scholarship Program, John M. Palms, Ph.D., (\$5,000 Annually), Purdue University, West Lafayette, IN.
 - 2012 Spoleto Festival USA First Annual, "The Mary Loretta Ramsey Award for Generosity and Commitment to Developing and Enriching the Community of Charleston," with Norma Cannon Palms, Charleston, SC
 - 2011 Assurant Corporation Distinguished Service as Board Member (1990-2011) and Chair (2001-2011), New York, NY.
 - 2009 The Citadel Distinguished Alumnus Award, School of Science and Math
 - 2007 Papal Honor Pro Ecclesia et Pontifice Cross from the Holy Father, Pope Benedict, XVI, 2007, the highest award given to a lay person for church work while serving as President at the University of South Carolina
 - 2004 First Mepkin Abbey Wisdom Award, Mepkin Abbey, Moncks Corner, SC
 - 2004 Netherlands/America Foundation Ambassador K. Kerry Dornbush Award
 - 2003 James F. Zimmerman Outstanding Alumni Award, University of New Mexico
 - 2002 Bestowing on President Palms the title Distinguished President Emeritus, the University of South Carolina Board of Trustees

Special Honors
Continued:

- 2002 A Concurrent Resolution, the South Carolina House of Representatives and the Senate express their boundless gratitude for a highly successful tenure as President of the University of South Carolina
- 2002 Honorary Degree, Doctor of Humane Letters, University of South Carolina
- 2002 The Center of Excellence John M. Palms Bicentennial Chair, University of South Carolina; now (2015) endowed at approximately 2.0 million dollars.
- 2002 The Order of the Palmetto, the State of South Carolina Highest Award Presented by Governor David Hodges.
- 2001 The National Collegiate Honors Council, Presidential Leadership Award for Exemplary Achievements on behalf of Honors Education at the University of South Carolina.
- 2001 North American Technical Center, ISOE OECD NEA/IAEA, Radiation Protection Professional of the Year
- 1995 USC Student Government, Richard A. Rempel Faculty Award, (for service to students)
- 1990 Commendation by the Senate of the State of Georgia for Leadership and other purposes and other purposes as Distinguished President
- 1988 Emory University, Awarded a Chair, the Charles Howard Candler Professor of Nuclear Radiation and Environmental Physics
- 1985 Emory University, Thomas Jefferson Award, Emory, (Emory's highest award for leadership and service by Trustees, Faculty and Students)
- 1980 The Citadel, Honorary Degree, Doctor of Science
- 1980 Emory University, Phi Beta Kappa, Hon. (by the Faculty at Emory University)
- 1958 The Citadel, Distinguished Air Force ROTC Graduate, Regular Commission
- 1958 The Citadel, Newman Club, Outstanding Catholic Scholar of the Graduating Class of Nineteen Hundred and Fifty-Eight.
- 1958 The Citadel, Who's Who Graduate
- 1958 The Citadel, President Arnold Air Society
- 1958 The Citadel, Sigma Pi Sigma, Honorary Physics Society, Regional President
- 1958 The Citadel, The Round Table

Positions as
Presidents:

- 1991-2002 President, Professor of Physics, University of South Carolina, Columbia, South Carolina
- 1989-1991 President, Professor of Physics, Georgia State University, Atlanta, Georgia

Emory University
Positions:

- 1988-1989 Charles Howard Candler Professor of Nuclear Radiation and Environmental Physics
- 1985-1986 Interim Dean of the Graduate School
- 1982-1988 Vice President for Academic Affairs
- 1980-1982 Vice President for Arts and Sciences; Acting Director, Emory University Computing Center
- 1979-1980 Vice President for Arts and Sciences; Acting Dean of Emory College
- 1979-1980 Acting Chairman, Department of Anthropology
- 1976-1977 Acting Chairman, Department of Mathematics and Computer Science
- 1974-1980 Dean, College of Arts and Sciences
- 1973-1974 Professor of Physics and Chairman, Physics Department; Associate Professor, Radiology Department, School of Medicine

Emory University 1969-1973 Chairman, Associate Professor, Physics Department
Positions Continued: 1966-1969 Assistant Professor, Physics Department

Military Service: 1966-71 Air Force Inactive Reserve – Honorable Discharge, Captain
1961-62 Instructor, United States Air Force Academy
1959-61 Air Force Special Weapons Center, Air Research and Development
Command, Weapons System Analysis Group, Kirkland Air Force
Base, Albuquerque, New Mexico, Liaison with Los Alamos
Scientific Laboratory and Livermore National Laboratory and Air
Force, Navy, and Army – Special Weapons
1958-1962 Regular Commission and service in the United States Air Force
1958-1959 Second Lieutenant, Emory University, M.S. in Physics

Other Positions: 1966 Staff Member, Oak Ridge National Laboratory Instrumentation Division
1963-66 Staff Member, University of California, Los Alamos Scientific
Laboratory, Physics
1962-63 Staff Member, Western Electric, Sandia Laboratory, High Altitude
Weapons Effects
1959-61 Lecturer, Physics Department, University of New Mexico
1958 Summer, Civilian Physicist, Aeronautical Research Laboratory, Wright
Patterson Air Force Base
1956 Physicist Civilian, Army Ballistic Missile Agency, Huntsville, Alabama

Special Committees:

Government:

2002-present Defense Science Study Group Mentor, Institute for Defense Analyses
(IDA)
1988-2012 Institute for Defense Analyses (IDA), Alexandria, Virginia, a federally
funded research and development center (FFRDC); Board of
Trustees Chairman, (1998-2012)
Summer 1991 Federal Advisory Commission on Consolidation and Conversion of
Defense Research and Development Laboratories
1989 & 1990 Defense Science Board Summer Study Task Force
1990 Environmental Protection Agency Panel Member for Review of
Computerized Radiological Risk Investigation System (CRRIS)
1985-89 Oak Ridge National Laboratory, Health & Safety Research Division
Advisory Committee to the Director
1996 Panel for Semiconductor Detectors, National Academy of Science
National Research Council
1996 President's Commission on White House Fellowships, Atlanta Regional
Selection Panel

Education:

2011-Present Advisory Committee, College of Science and Mathematics, The Citadel
2012-2014 Chair of Advisory Committee to the President, The Citadel
2002-2003 Chairman, Southern Association of Colleges and Schools Substantive
Change Committee, Integration of stand-alone Medical School as
part of the University of Tennessee System

<u>Special Committees</u>	1986-2000	Chairman, Southern Association of Colleges and Schools Re-Accreditation Visiting Committee for Southern Methodist University (2000), Auburn University (1992-93), University of Miami (1986)
<u>Continued:</u>	1995-96	Chairman, Rhodes Scholars Selection Committee, South Carolina
	1994	Truman Scholarship Selection Committee
	1987 & 1989	Chairman, Rhodes Scholars Selection Committee, Southern Region, Atlanta
	1981-88	Executive Committee, American Council on Education, Chief Academic Officers and Provosts
	1980-89	Advisory Committee, Fernbank Museum of Natural History
	1970-74	Council Member, Chairman, Oak Ridge Associated Universities

<u>Professional Societies:</u>	American Association for the Advancement of Science
	American Association of Physics Teachers
	American Council of Education
	American Conference of Academic Deans
	American Physical Society
	Council of Provosts and Academic Vice Presidents
	Institute for Electrical and Electronic Engineers
	Nuclear Science Group, American Nuclear Society
	Health Physics Society
	Sigma Xi
	Sigma Pi Sigma

<u>Boards (Trustee and/or Director):</u>	<u>Educational:</u>
	2001-2002 National Collegiate Athletics Association, Board of Directors
	1997-2002 National Merit Scholarships Corporation, Board of Directors
	1991-2002 South Carolina Council of Presidents; President, (1999-2000)
	1984-1989 Wesleyan College, Macon, Georgia, Board of Trustees
	1984-1989 Pace Academy, Atlanta, Georgia, Board of Trustees
	1974-2001 Presidential Advisory Committee, The Citadel
	<u>Industrial:</u>
	2006-2011 The Geo Group, Inc., Boca Raton, Florida, Board of Directors-All Committees
	2003-2007 Maroon Biotech, Chicago, IL, Board of Directors, Chair
	2001-2012 Computer Task Group (CTG), Buffalo, NY, Board of Directors and Compensation Committee
	2001-2007 SIMCOM International Holdings, Incorporated, Atlanta, GA, Board of Directors, Audit Committee
	2000-2012 Exelon Corporation (merger of PECO Energy and Unicom Chicago), Board of Directors, Audit Committee and Genco Committee
	1997-2001 Institute of Nuclear Power Operations National Advisory Council
	1995-1999 Norfolk Southern Corporation Advisory Board
	1996-1997 Carolina First Bank, Board of Directors, Audit Committee
	1992-1995 NationsBank of the Carolinas, Columbia, South Carolina, Board of Directors, Finance Committee

Boards (Trustee
and/or Director)
Continued:

1991-2001 Mynd Corporation (formerly Policy Management Systems), Columbia,
South Carolina, Board of Directors
1991-2000 PECO Energy, Philadelphia, Pennsylvania, Board of Directors, Chairman
of Nuclear Committee
1990-2004 Assurant, Inc. (formerly Fortis, Inc. and AMEV, Board of Directors
(2004-2011) Chairman of the Board (2004-2011)
1985-1990 Source Technologies, Inc., Atlanta, Georgia, Board of Directors
1984-1989 Institute of Nuclear Power Operations, National Academy for Nuclear
Training, Atlanta, Georgia, National Nuclear Accreditation Board
1979-2010 Three Mile Island Public Health Fund-Committee to Develop Publicly
Acceptable Environmental Monitoring Program for Three Mile
Island –post-accident)

Governmental and Community:

2004-present Spoleto Festival USA Trustee, Charleston, South Carolina
2002-present Chair, Samuel Freeman Charitable Trust, New York, NY
1993-2002 Central Carolina Economic Development Alliance
1991-2002 Greater Columbia Chamber of Commerce, Board of Directors
South Carolina Universities Research and Educational Foundation Board
South Carolina Research Authority Board
United Way of the Midlands, Board of Directors
1989-1990 The Atlanta Area Council of The Boy Scouts of America, Executive
Board
1987-1989 Saint Joseph's Hospital, Atlanta, Georgia, Board of Trustees
1988-1989 Georgia Research Alliance, Board of Trustees
1988-1990 Civic-Atlanta Partnership of Business and Education, Inc., Board of
Directors
United States Penitentiary, Atlanta, Georgia, Community Relations Board
Atlanta Chamber of Commerce High Technology Task Force
DeKalb County Chamber of Commerce Economic Development
Committee
Georgia Partnership for Excellence in Education

Publications and
Presentations:

Edited conference proceedings
Presented over 40 papers and abstracts
Produced and interviewed on "Emory Today" television program
Published six book chapters
Published 60 scientific and technical papers
Published 150 reports in various research fields
Has spoken to numerous educational, service, science, and religious groups and
organizations

Consultation:

Academy of Natural Sciences, Philadelphia, Pennsylvania
Allied Chemical Nuclear Services, Barnwell, South Carolina
Celenase Corporation, North Carolina
Georgia Department of Human Resources, Atlanta, Georgia
Hughes Aircraft, Inc., Santa Barbara, California
Lockheed, Marietta, Atlanta
National Cancer Institute

Consultation
Continued:

Oak Ridge National Laboratory, Health Safety Research Division Advisory Committee
to the Director
Ortec Inc., Oak Ridge, Tennessee
Tennelec, Inc., Oak Ridge, Tennessee
Three Mile Island Public Health Fund, Philadelphia, Pennsylvania
TWR Space Systems Division, Los Angeles, California

Recent Selected
Papers and
Presentations:

Twenty-Five Years of Environmental Radionuclide Concentrations near a Nuclear Power Plant. By Charles Harris, Danielle Kreeger, Ruth Patrick, John M. Palms
Health Physics – The Radiation Safety Journal, Vol. 108, No 6, 503-513
May 2015

A Personal Fifty-Five Year Life and Perspective in Fundamental and Applied Atomic and Nuclear Radiation Physics, Invited Plenary 1 Session Paper *Symposium on Radiation Measurements and Applications (SORMA XV)* – June 8-12, 2014, University of Michigan

Exelon Board Governance Approach to Achieving Excellence in Nuclear Plant Fleet Operations and Nuclear/Radiological Safety. Plenary Opening Speaker at 2012 Asian ISOE ALARA Symposium, IAEA Commission/OECO-NEA – 2012

25-Y Study of Radionuclide Monitoring with Terrestrial and Aquatic Biomonitors. By John Palms, Ruth Patrick, Danielle Kreeger and Charles Harris. *Health Physics* – The Radiation Safety Journal, Vol. 92, No. 3, 217-225 – March 2007

A Nuclear Renaissance. Plenary opening speaker at the 2007 ISOE International ALARA Symposium EPRI Radiation Protection Conference. Global Expansion of Nuclear Power Successful Operation, Fort Lauderdale, FL – January 2007

Twenty-Five-Year Study of Radionuclide in the Susquehanna River via Periphyton Biomonitors. By Ruth Patrick, John Palms, Danielle Kreeger and Charles Harris. *Health Physics* – The Radiation Safety Journal, Vol. 92, No. 1, 1-9 – January 2007

The Future of the World Nuclear Power Industry. Presented at the World Nuclear University, Stockholm Sweden, 2006 Summer Program Institute. Attended by Nuclear Power Industry representatives from thirty-five countries – August 2006

The Current Status of U.S. Nuclear Power and Prospects for the Future.
Invited paper presented at the University of Chicago – Argonne National Laboratory Symposium “Chernobyl: Reflections on Health Consequences of a Nuclear Catastrophe – May 2006

Personal
Information:

Married: Norma Cannon Palms (1958) Charleston, South Carolina
Children: John Michael, Jr. (1959), Danielle Maria (1966), and Lee Cannon Palms (1969)
Nine grandchildren
Hobbies include playing sports, reading, recreational time with wife and family
Fine and Performing Arts Performances
Church Communities
Fund Raising

Updated June 3, 2015

John Michael Palms, Ph.D, Sc.D (Hon)., LHD (Hon)

Recent Authored and Co-Authored Publications and Presentations: (2006-2015)

Twenty-Five Years of Environmental Radionuclide Concentrations nears a Nuclear Power Plant. By Charles Harris, Danielle Kreeger, Ruth Patrick, John M. Palms – *Health Physics* – The Radiation Safety Journal, Vol. 108, No 6, 503-513 – May 2015

A Personal Fifty-Five Year Life and Perspective in Fundamental and Applied Atomic and Nuclear Radiation Physics, Invited Plenary 1 Session Paper *Symposium on Radiation Measurements and Applications (SORMA XV)* – June 8-12, 2014, University of Michigan

Exelon Board Governance Approach to Achieving Excellence in Nuclear Plant Fleet Operations and Nuclear/Radiological Safety. Plenary Opening Speaker at 2012 Asian ISOE ALARA Symposium, IAEA Commission/OECO-NEA – 2012

25-Y Study of Radionuclide Monitoring with Terrestrial and Aquatic Biomonitors. By John Palms, Ruth Patrick, Danielle Kreeger and Charles Harris. *Health Physics* – The Radiation Safety Journal, Vol. 92, No. 3, 217-225 – March 2007

A Nuclear Renaissance. Plenary opening speaker at the 2007 ISOE International ALARA Symposium EPRI Radiation Protection Conference. Global Expansion of Nuclear Power Successful Operation, Fort Lauderdale, FL – January 2007

Twenty-Five-Year Study of Radionuclide in the Susquehanna River via Periphyton Biomonitors. By Ruth Patrick, John Palms, Danielle Kreeger and Charles Harris. *Health Physics* – The Radiation Safety Journal, Vol. 92, No. 1, 1-9 – January 2007

The Future of the World Nuclear Power Industry. Presented at the World Nuclear University, Stockholm Sweden, 2006 Summer Program Institute. Attended by Nuclear Power Industry representatives from thirty-five countries – August 2006

The Current Status of U.S. Nuclear Power and Prospects for the Future. Invited paper presented at the University of Chicago – Argonne National Laboratory Symposium “Chernobyl: Reflections on Health Consequences of a Nuclear Catastrophe – May 2006

Master’s Thesis, MS – (1959)

“Triple Coincidence Positron Spectroscopy,” Physics Department, Emory University (1959).

Dissertation, Ph.D. – (1966)

“Coulomb Excitation of Ytterbium Nuclei,” Physics, Tandem Van de Graaff Facility, P Division, University of California’s Los Alamos Scientific Laboratory. Degree from University of New Mexico.

Publications Authored and Co-Authored:

Major Reports

“Proceedings of the International Conference on Inner Shell Ionization Phenomena and Future Applications,” (edited by R.W. Fink, S.T. Manson, J.M. Palms and P.V. Rao), Volumes I, II, III, and IV, 2384 pp. U.S. Atomic

“Radiological and Ecological Studies in the Vicinity of the Susquehanna Steam Electric Station: Aquatic-Terrestrial Studies.” Reports from years 1980-1986, Division of Environmental Research, The Academy of Natural Sciences, Philadelphia, PA 19103.

“In-Plant and Environmental Monitoring and the Management of Radioactive Effluents Information for Light Water Reactors, e.g., Three Mile Island,” The Academy of Natural Sciences, Philadelphia, PA 19103 (1987). The appendices written with Ruth Patrick, David Walker, Barry Wahlig, Mahmoud R. Ghavi, John Till, William Harding and Abraham S. Goldin.

Book Chapters

“Newer Developments in Detector Design and Materials,” Ch. 5, Semiconductor Detectors in the Future of Nuclear Medicine, (edited by P.B. Hoffer, R.N. Beck and A. Gottschalk), the Society of Nuclear Medicine (1971).

“The Evaluation of CdTe for Gamma and X-Ray Spectrometers and Counters,” Ch. XXIII-1, Proceedings of the International Symposium on Cadmium Telluride, (edited by P. Siffert and A. Cornet), Strasbourg, France (June 29-30, 1971).

Authored and Co-Authored Papers Published

“High Resolution Measurements of Gamma Rays from Neutron Inelastic Scattering” (with R.B. Day), Proceedings of the International Conference on the Study of Nuclear Structure with Neutrons, Antwerp (July 1965).

“Thermoelectric Control Apparatus for the Fabrication of Thick Lithium-Drifted Germanium Detectors” (with A.H. Greenwood), Rev. Sci. Instr. 36, No. 8, 1209 (August 1965).

“Ionization Produced by Energetic Germanium Atoms within a Germanium Lattice” (with A.R. Sattler and F.L. Vook), Sandia Corporation, Albuquerque, NM, Phys. Rev. 143, No. 2, 588 (1966).

“Further Evidence for Effective Nucleon Spin g-Factors” (with E.M. Bernstein and G.G. Seaman), Proceedings of the International Conference on Nuclear Physics, Gatlinburg, TN (September 1966).

“A Comparison of Rotational M1 Transition Rates Between High and Low Spin States,” (with G.G. Seaman and E.M. Bernstein), Proceedings of the International Conference on Nuclear Physics, Gatlinburg, TN (September 1966).

“Trapping and Energy Resolution in Semiconductor Detectors” (with R.B. Day and G. Dearnaley), IEEE Trans. Nucl. Sci. NS-14, No. 1, 487 (1967).

“M1 transition Probabilities in the Odd Ytterbium Isotopes, ^{171}Yb and ^{173}Yb ,” Phys. Rev. 151, No. 3, 1004 (1966).

“A Ge(Li) Concentric Duode Spectrometer for Compton Suppression” (with R.E. Wood and O.H. Puckett), Bull. Am. Phys. Soc. 13, 1, 51 (1968); IEEE Trans. Nucl. Sci. NS-15, 3, 397 (1968).

"Electron Capture Decay of ^{207}Bi L Subshell Fluorescence Yields and Coster-Kronig Transition Probabilities of Pb" (with P.V. Rao and R.E. Wood), Proceedings of Conference on the Electron Capture and Higher Order Processes in Nuclear Decays, Debrecen, Hungary, 2, 22 (July 15-18, 1968).

"An Ultra High Resolution Ge(Li) Spectrometer for Singles and Coincidence X-Ray and Gamma-Ray Studies" (with P.V. Rao and R.E. Wood), Nucl. Instr. & Methods 69, 310 (1968).

"Characteristics of an Ultra High Resolution Germanium Spectrometer for Singles and Coincidence X-Ray and Gamma-Ray Studies" (with P.V. Rao and R.E. Wood), IEEE Trans. Nucl. Sci. NS-16, No. 1, 36 (1968)

"Note on the Gamma Ray Spectrum from the ^{47}Ca Decay" (with R.E. Wood and P.V. Rao) Nucl. Phys. A126, 300 (1969).

"Gamma-Rays from the Decay of ^{74}Ge and ^{77}Ge " (with A. Ng, R.E. Wood, P.V. Rao and R.W. Fink), Phys. Rev. 176, No. 4, 1329 (1968).

"Electron Capture Decay of ^{207}Bi : L Subshell Fluorescence Yields and Coster-Kronig Transition Probabilities of Pb" (with P.V. Rao and R.E. Wood), Phys. Rev. 178, No. 4, 1997 (1969).

"The Decay of Hg^{203} : L Subshell Fluorescence Yields and Coster-Kronig Transition Probabilities of Thallium" (with R.E. Wood and P.V. Rao), Bull. Am. Phys. Soc., Miami Beach, 13, 1369 (November 1968); Phys. Rev. 187, No. 4, 1497 (1969).

"Clinical X-Ray Beam Analysis with Ultra High Resolution Ge(Li) with Si(Li) Detectors" (with R.E. Wood, P.V. Rao and R.H. Rohrer), presented at the Amer. Assoc. of Physicists in Med., Chicago (December 1968), AAPM Quarterly Bull. (December 1968).

"Evaluation of Some Large Area Silicon Junction Detectors for Cryogenic Applications" (with H.H. Nichols), Nucl. Appl. & Tech. 7, 164 (1969).

"A Fano Factor Measurement for Silicon Using Low Energy Photons" (with P.V. Rao and R.E. Wood), Nucl. Instr. & Methods 76, No. 1, 69 (1969).

"Further Evaluation of CdTe as a Gamma-Ray Detector" (with D.M. Edwards, R.E. Wood, P.V. Rao and H.H. Nichols), International Conference on Radioactivity in Nuclear Spectroscopy, Nashville (August 11-15, 1969).

"The K-Conversion Coefficient for the 37.15 keV M1 Transition in Sb^{121} " (with K.S.P. Sastry, R.E. Wood and P.V. Rao), International Conference on Radioactivity in Nuclear Spectroscopy, Nashville (August 11-15, 1969).

"Orbital Electron Capture Decay of Dy^{159} " (with R.E. Wood and P.V. Rao), International Conference on Radioactivity in Nuclear Spectroscopy, Nashville (August 1969).

"-Vibrational and Ground-State Rotational-Band Mixing in ^{238}Pu " (with R.E. Wood and P.V. Rao), Phys. Rev. C 2, 1125 (September 1970).

"Fluorescence and Coster-Kronig Yields of L Subshells in Hg from the Decay of ^{198}Au and ^{204}Tl " (with R.E. Wood, R.V. Rao and V.O. Kostroun), Phys. Rev. C 2, 592 (Aug 1970).

"Evaluation of CdTe as an Integral Gamma-Ray Counter" (with H.H. Nichols), Nuclear Applications & Technology 9, No. 1, 112 (1970).

“Monte-Carlo Analysis of the Ge(Li) Detector Used in the Sum-Coincidence Mode” (with D.M. Walker), IEEE Trans. Nucl. Sci NS-17, 3, 296 (1970). Presented at IEEE Scintillation and Semiconductor Counter Symposium, Washington, D.C. (March 11-12, 1970).

“Coulomb Excitation of ^{113}In and ^{115}In with Oxygen Ions” (with E.M. Bernstein and G.G. Seaman), Nucl. Phys. A141, 67 (1970).

“Electron Capture Decay of ^{181}W : L Subshell Fluorescence and Coster-Kronig Yields in Ta” (with S. Mohan and R.W. Fink, Sch. Of Chem., Ga. I. of Tech., and R.E. Wood and P.V. Rao), Z. Physik 239, 423-428 (1970).

“Neutron Activation Cross Sections for As, Br, Rb and Sr Isotopes at 14.4 MeV” (with P.V. Rao, R.E. Wood and R.W. Fink), Phys. Rev. C 3, No. 2, 629-635 (1971).

“Absence of Radiative Component in L_2 - L_3 X Coster-Kronig Transition Probability” (with M.H. Chen, B. Crasemann, P.V. Rao and R.E. Wood), Phys. Rev. 16, No. 4, 618 (1971).

“Medical Problems in Eye Tumor Identification” (with J.H. Larose, W.H. Jarrett, W.S. Hagler and R.E. Wood), Proceedings of the IEEE Trans. on Nucl. Sci., Part I, 18, No. 1, 50-56 (February 1971).

“Energy Levels and Transitions in ^{197}Au from (n, n') Reaction” (with J.A. Nelson, V.R. Dave and R.M. Wilenzick), Phys. Rev. C3, No. 1, 307 (1971).

“High-Z L-Subshell X-Ray Emission Rates” (with P.V. Rao and R.E. Wood), Phys. Rev. A3, 1568-75 (May 1971).

“Si(Li) Spectrometers for Electrons and Low-Energy Photons” (with R.E. Wood, P.V. Rao and O.H. Puckett), Nucl. Instr. & Methods 94 245-252 (1971).

“Newer Developments in Detector Design and Materials,” Proceedings of The Role of Semiconductor Detectors in the Future of Nuclear Medicine, Society of Nuclear Medicine, N.Y., Ch. 5, 58-78 (1971).

“Does the Coster-Kronig Transition Probability f_{23} Have a Radiative Component?” (with M.H. Chen, B. Crasemann, P.V. Rao and R.E. Wood), Phys. Rev. A4, No. 3, 846-849 (1971).

“ L_2 - L_3 X Coster-Kronig Transition Probability at $Z = 82$ ” (with R.E. Wood and P.V. Rao), Phys. Rev. 5, No. 1, 11-13 (1972).

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