American Association of Physicists in Medicine

Awards Ceremony

July 26, 1999

Opryland Hotel, Washington Room
Nashville, Tennessee
6:00 pm

The American Association of Physicists in Medicine was founded in 1958 to promote the application of physics to medicine and biology, to encourage interest and training in medical physics and related fields and to prepare and disseminate technical information in medical physics and related fields.

1999 Program

Welcome and Presentation of Awards
Geoffrey S. Ibbott, Ph.D., FAAPM
AAPM President

Young Investigators Competition

AAPM Medical Physics Travel Grant
John A. Antolak, Ph.D.

AAPM-IPEM Medical Physics Travel Grant
Ge Wang, Ph.D.

Farrington Daniels Award
David W. O. Rogers, Ph.D.

Sylvia Sorkin Greenfield Award
Willi A. Kalender, Ph.D.
Marc Kachelriess, Ph.D.

AAPM Fellows

B. Wally Ahluwalia, Ph.D., FAAPM
Howard I. Amols, Ph.D., FAAPM
Lowell L. Anderson, Ph.D., FAAPM
Krishnadas Banerjee, Ph.D., FAAPM
Robert J. Barish, Ph.D., FAAPM
Daniel R. Bednarek, Ph.D., FAAPM
Peter J. Biggs, Ph.D., FAAPM
John M. Boone, Ph.D., FAAPM
Charles W. Coffey, II, Ph.D., FAAPM
Karen P. Doppke, M.S., FAAPM
James M. Galvin, D.Sc., FAAPM
Robert G. Gould, Sc.D., FAAPM
James M. Hevezi, Ph.D., FAAPM
Douglas Jones, B.Sc., FAAPM
John S. Kent, M.S., FAAPM
H. Dale Kubo, Ph.D., FAAPM
Pei-Jan Paul Lin, Ph.D., FAAPM
Wendell R. Lutz, Ph.D., FAAPM
Thomas R. Mackie, Ph.D., FAAPM
Melissa C. Martin, M.S., FAAPM
Daniel L. McShan, Ph.D., FAAPM
Charles A. Mistretta, Ph.D., FAAPM
Stephen W. Nagy, Ph.D., FAAPM
Amos Norman, Ph.D., FAAPM
George D. Oliver, Jr., Ph.D., FAAPM
Satish C. Prasad, Ph.D., FAAPM
Isaac Rosen, Ph.D., FAAPM
Stephen Rudin, Ph.D., FAAPM
J. Anthony Seibert, Ph.D., FAAPM
Claudio H. Sibata, Ph.D., FAAPM
Melvin P. Siedband, Ph.D., FAAPM
Thomas G. Stinchcomb, Ph.D., FAAPM
Keith J. Strauss, M.Sc., FAAPM
Orhan H. Suleiman, Ph.D., FAAPM
David L. Vassy, Jr., M.S., FAAPM
Carl J. Vyborny, Ph.D., FAAPM
Charles R. Wilson, Ph.D., FAAPM
Ellen D. Yorke, Ph.D., FAAPM

Award for Achievement in Medical Physics
Perry Sprawls, Ph.D., FAAPM
Joe P. Windham, Ph.D., FAAPM

William D. Coolidge Award
Faiz M. Khan, Ph.D., FAAPM

Closing Remarks
Reception immediately following in the Adams Room.

William D. Coolidge Award

The AAPM's highest honor is presented to a member who has exhibited a distinguished career in medical physics, and who has exerted a significant impact on the practice of medical physics.

William D. Coolidge Award Recipients

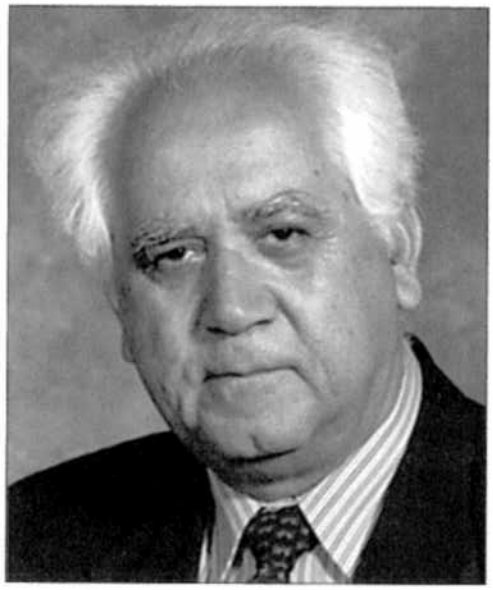
1972	William D. Coolidge	1986	Warren K. Sinclair
1973	Robert J. Shalek	1987	Gordon L. Brownell
1974	John S. Laughlin	1988	John R. Cunningham
1975	Marvin M.D. Williams	1989	William R. Hendee
1976	Harold E. Johns	1990	Peter R. Almond
1977	Edith E. Quimby	1991	Moses A. Greenfield
1978	Lawrence H. Lanzl	1992	Nagalingam Suntharalingam
1979	Herbert M. Parker	1993	Colin G. Orton
1980	John R. Cameron	1994	F. H. Attix
1981	James G. Kereiakes	1995	Robert Loevinger
1982	Gail D. Adams	1996	Leonard Stanton
1983	Edward W. Webster	1997	James A. Purdy
1984	Robley D. Evans	1998	Bengt E. Bjarngard
1985	Jack S. Krohmer	1999	Faiz M. Khan

Award for Achievement in Medical Physics

The Achievement Award denotes outstanding career achievement in medical physics practice, education, or organizational affairs and professional activities.

AAPM Fellowship

The category of Fellow honors members who have distinguished themselves by their contributions in research, education, and leadership in the medical physics community.



AAPM William D. Coolidge Recipient for 1999

Faiz M. Khan, Ph.D.

Faiz Khan was born in Pakistan where he received his undergraduate education at Emerson College, Multan. He did his graduate studies at Government College, Lahore, and finished with his M.S. degree in Physics in 1959. Shortly after graduation, he got a job as "hospital physicist" in the Institute of Radiotherapy, Mayo Hospital, Lahore. This was first such position created in Pakistan, so the training opportunities there were nonexistent. After working for 3 years as a self-taught medical physicist, he received a Fulbright Scholarship Award to come to the U.S. in 1963 for furthering his graduate education. He received his Ph.D. degree in Biophysics from the University of Minnesota in 1969, under the advisorship of Dr. Merle Loken who was a Nuclear Medicine physician with an M.D. And Ph.D. degree and board certification in radiological physics. Dr. Khan joined the University of Minnesota as faculty in 1968. He received his on-the-job clinical training in association with Dr. Vaughn Moore who was chief physicist at the University of Minnesota Hospital until 1973. Dr. Khan assumed the directorship of the Physics Section in 1974 and is currently professor and head of the Physics Section at the University of Minnesota, Radiation Oncology Department.

Dr. Khan has served in many capacities in the American Association of Physicists in Medicine including member of the Board of Directors, Chairman of the Radiation Therapy Committee, President of the AAPM, and Chair and Member of several committees and task groups. As AAPM President he promoted the idea of clinical residencies for medical physicists. He appointed a presidential Ad-Hoc Committee to draft a document on the essentials of hospital based medical physics residency programs. He later served on the Residency Review Committee that prepared criteria for accreditation of such programs. In parallel with the AAPM activities, Dr. Khan served on the Board of Chancellors of the American College of Medical Physics. He is currently Chairman of the American Board of Medical Physics. Dr. Khan is Fellow of the AAPM, Fellow of the ACMP, and recipient of the 1998 Marvin M.D. Williams Award by the American College of Medical Physics.

Dr. Khan's career in medical physics spans over 30 years. He has published 80 papers in peer-reviewed journals and written 16 articles and chapters in various books and proceedings. He has written a textbook "The Physics of Radiation Therapy," which is currently in its second edition. He has co-edited 3 other books on radiation oncology.

Dr. Khan's professional interests have included clinical work, teaching and research. He has taught or advised over 170 students including medical residents, medical physics residents, and graduate students in medical physics. In the research area he has contributed papers on clinical dosimetry, treatment techniques, and treatment planning. His current interests are in the area of treatment planning algorithms for photon and electron beams.

AAPM Award for Achievement in Medical Physics

Joe P. Windham, Ph.D.

IN MEMORIAM

Joe Windham, Head of the Radiological Physics and Engineering Division, Department of Diagnostic Radiology, Henry Ford Hospital in Detroit, passed away on December 17, 1998 at the age of 64. He died of complications arising from a long-term progressive lung condition. Dr. Windham, a long standing member of the AAPM, the ACR Commission on Medical Physics and the Society of Nuclear Medicine, began his academic endeavors at Michigan State University, receiving a B.S. in Geology in 1956. In 1967, after serving two years as a Navy pilot and working in industry and at Wayne State University as a research assistant and health physicist, Dr. Windham accepted a fellowship at the University of Cincinnati where, under the direction of Dr. James Kereiakes and Dr. Al Shapiro, he earned both M.S. and Ph.D. degrees in Nuclear Science and Engineering. In 1972 he took a faculty position at the Medical College of Ohio where he remained until 1984 when he accepted the position of Radiological Physicist at Henry Ford Hospital. In 1977 Joe was certified in Radiological Physics by the ABR, and examined for the Board on several occasions.

Dr. Windham was a highly respected researcher, teacher and mentor. In his doctoral thesis work, he was a pioneer in the application of the discrete ordinate method to neutron transport calculations. Later his research interests turned to diagnostic image processing, where he amassed an extraordinary record of achievement over a span of more than twenty years. Dr. Windham was Principal Investigator or Co-Principal Investigator on grants totaling more than seven million dollars, many of which were NIH grants. Most notable among his diagnostic contributions was his work in the application of eigenimage filtering to dynamic processes such as stroke analysis using magnetic resonance and radionuclide imaging methods. His research accomplishments earned him seats on five different NIH panels, including chairmanships of three Special Study Sections during the period 1990-1992. His publications reflect his effectiveness as a mentor of graduate students, many of whom appear as authors or co-authors and now occupy responsible positions in medical physics.

Dr. Windham served his profession well through volunteer work in scientific and professional societies. Elected a fellow of the AAPM in 1996, he served two terms on its Board of Directors and held numerous committee appointments, including Annual Meeting, Finance, Program, Continuing Education and Research. He had been an Associate Editor of the Association's scientific journal *Medical Physics*. He was also very active in the ACR's Commission on Medical Physics where he was a Commissioner-at-Large and Chair of the Committee on Education and Training in Physics.

For all of Joe Windham's scientific, educational and professional accomplishments, those of us who really knew him know that his real passion for living stemmed from his relationships with the people he loved—his wife of over 40 years, Patricia, his daughter and son-in-law, Kathleen and Stan Korducki, his grandson, Nicholas, his "pseudo kids" (students at Medical College of Ohio with whom he and Pat shared their home) his many, many close friends including the parishioners at Saint Patrick Heatherdowns Catholic Church in Toledo where he served as a Deacon since 1989, and the couples who benefitted from marriage preparation counseling conducted by Joe and Pat, an activity that he regarded as one of his most important contributions. A large fraction of those in this list were fortunate to have enjoyed the fruits of his favorite hobby—he was a highly accomplished gourmet cook. Joe was genuinely interested in every person he met, and he enjoyed every experience that life has to offer. A better friend could not be found. We will all miss him greatly.

Perry Sprawls, Ph.D.

Perry Sprawls received his Ph.D. degree from Clemson University in 1968 after joining the Emory University faculty in 1960. He is Professor of Radiology at Emory and served as Director of the Division of Radiological Sciences and is on the faculty of Xian Medical University, China, and the University of Malaya. He is a Director of the College of Medical Physics, International Center for Theoretical Physics, Trieste, Italy. Dr. Sprawls is certified by the American Board of Radiology in diagnostic physics, the American Board of Medical Physics in diagnostic imaging physics and magnetic resonance imaging and has served as an examiner for both boards. He is a Fellow of the AAPM and the ACR. Much of his career has been devoted to medical physics education and the improvement of medical physics in the developing countries of the world. He has served in many capacities in the AAPM and is currently Chair of the International Affairs Committee under which he developed the Partners in Physics Program and other activities to provide the AAPM membership with opportunities for international involvement. He led the development of the continuing education accreditation program for both AAPM and CAMPEP. In the American College of Radiology he serves on the Commission on Medical Physics and as chair of the Research and Technology Assessment Committee. He previously led in the creation of the annual ACR Medical Physics Symposia. He is the author of a series of textbooks on the physics of medical imaging and has conducted medical physics educational activities in 16 countries.

New AAPM Fellows

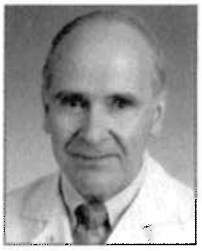
B. Wally Ahluwalia, Ph.D.

B. "Wally" Ahluwalia received his Ph.D. From Boston University. He began his career in medical physics at the University of Colorado. In 1973, he became an NIH fellow at Massachusetts General Hospital. He then served as Assistant Physicist at MGH. Dr. Ahluwalia joined the University of Oklahoma HSC, where he is Associate Professor of Radiological Sciences in radiation therapy. He has served AAPM as a member of the Committee on Training of Medical Physicists and Committee on Training of Radiologists; has been Secretary and President of the American Board of Science in Nuclear Medicine. He is past President of American College of Nuclear Medicine. He is board certified by ABR, ABSNM and ABMP and is Fellow of ACNM and the ACR. He has been a panel member of U.S. Nuclear Regulatory Commission. Dr. Ahluwalia has written four book chapters, edited a book, and published over 35 papers in peer-reviewed journals.

Howard I. Amols, Ph.D.

Howard Amols received his Ph.D. in 1974 from Brown University. He was a National Cancer Institute Post-Doctoral Fellow and staff member at Los Alamos National Laboratory. He held faculty positions at Brown and Columbia Universities prior to becoming Chief of Clinical Physics at Memorial Sloan Kettering Cancer Center in New York in 1998. He has served as Associate Editor of *Medical Physics* and is on AAPM's Task Group for Intravascular Brachytherapy. He has been a Panel Chair for the RAPHEX, ABMP, and ACR Resident In-Service Examinations. He serves on ASTRO's Task Force on Vascular Radiotherapy and Scientific Program Committee. He received the 1996 Landauer Award from the AAPM's San Francisco Bay Chapter and is certified in Radiation Oncology Physics by the American Board of Medical Physics. Dr. Amols has over 85 peer-reviewed papers and book chapters, plus 8 contributions of modest notoriety in the AAPM Newsletter .

Lowell L. Anderson, Ph.D.



Lowell Anderson received his Ph.D. degree from the University of Rochester in 1958. After an eleven-year appointment as biophysicist at Argonne National Laboratory he joined the Department of Medical Physics at Memorial Sloan-Kettering Cancer Center in 1969, where he was head of Brachytherapy Physics until 1998 and is now Member, Emeritus. He is certified in Radiological Physics by the American Board of Radiology. Dr. Anderson has served on several Task Groups of the AAPM Radiation Therapy Committee and is currently a member of TG-64 on Permanent Prostate Seed Implant Brachytherapy. He has served on the Board of the American Brachytherapy Society and as chairman of the ABS Physics Committee, and is currently an editor of the Journal of Brachytherapy International. He has presented numerous lectures on brachytherapy for the AAPM's Therapy Physics Review Course and as refresher courses at ASTRO meetings. Dr. Anderson has published 79 papers in peer-reviewed journals.

Krishnadas Banerjee, Ph.D.

Krishnadas Banerjee received an M.S. degree in physics from Calcutta University in 1956. He came to the University of Pittsburgh as a Fullbright scholar and received his Ph.D. degree in 1961. He returned to India and did two years of post-graduate fellowship at the Saha Institute of Nuclear Physics in Calcutta India. He then returned to the United States in 1969 to do a one year fellowship at the University of Pittsburgh. Dr. Banerjee joined St. Francis Medical Center, Pittsburgh in 1970 as a clinical physicist. He is now the Director of the Department of Radiological Physics and Radiation Safety. Dr. Banerjee is board certified by the ABR in Radiological Physics and is a fellow of the ACR. He has been active professionally in the ACR. Dr. Banerjee has been involved in many capacities with the ABR and currently is the coordinator of the written physics examination committee.

Robert J. Barish, Ph.D.

Robert Barish began his career as a radiation oncology physicist at the State University of New York, Downstate Medical Center. After three years he went to London to work with Prof. J.W. Boag, and in 1976 he received a doctoral degree in Physics Applied to Medicine from the Institute of Cancer Research, Royal Marsden Hospital. Subsequently he held positions at New York University Medical Center and the Catholic Medical Centers of Brooklyn and Queens. Dr. Barish is presently a consultant, providing education to airline flight crews with respect to their exposure to cosmic radiation. He has been an Associate Editor of *Medical Physics* since 1988, and for the past 20 years has served continuously as an officer of RAMPS. He chairs the therapy physics written examination committee of and is an oral examiner for the ABR. Dr. Barish has published 30 peer-reviewed papers and one book.

Daniel R. Bednarek, Ph.D.

Daniel R. Bednarek received his doctoral degree in Medical Physics from the University of Chicago in 1978. He is certified in Radiological Physics by the American Board of Radiology and is currently Associate Professor in the Department of Radiology at the State University of New York at Buffalo and Medical Physicist at the Erie County Medical Center. He has been active in the training of graduate students, medical students, residents and hospital staff. His recent research has centered on medical imaging and radiation dose assessment with over 140 publications. Dr. Bednarek has served the American Board of Radiology as oral examiner in radiological physics and as a member of the diagnostic radiology written examination committee. He was a charter member of the Commission on Accreditation of Educational Programs for Medical Physicists of the AAPM and has served the Upstate New York Chapter of the AAPM as secretary-treasurer and president.

Peter J. Biggs, Ph.D.

Peter Biggs obtained his Ph.D. in high energy physics from the University of London in 1966. He worked at the Daresbury Nuclear Physics Laboratory until 1970 and at MIT until 1975, performing research at Fermilab and Brookhaven National Laboratories that resulted in the discovery of the J/y particle. In 1975, he joined the Department of Radiation Oncology at the Massachusetts General Hospital where he received his Medical Physics training and is currently a Radiation Biophysicist and Associate Professor at Harvard Medical School. He is certified by the ABR in Therapeutic Radiological Physics and serves on their written exam committee in this specialty. He has served as scientific program coordinator for the annual meeting and been active on many AAPM task groups and committees, including TG51 and TG57; he is currently chairman of PUBCOM. Dr. Biggs was the recipient of the Farrington-Daniels and AAPM-HPA travel awards.

John M. Boone, Ph.D.

John Boone received his Ph.D. degree in Radiological Sciences in 1985 at the University of California Irvine. He is currently Professor of Radiology at the University of California, Davis. John has served on several AAPM task groups and committees, and was Scientific Director of the 1995 AAPM Meeting in Boston. He was Associate Editor for *Medical Physics* from 1992 to 1998, and chairman of the Journal Business Management Committee from 1995 - 1998. During his tenure as chair, the Journal changed Editors and Editorial Offices, went electronic with a CD ROM, and *Medical Physics* On-Line was launched. Dr. Boone is board certified in diagnostic physics by the ABR and the ABMP. He is a member of the NIH study section in Radiology, and serves on the Integration Panel of the US DoD Breast Cancer Research Program. Dr. Boone has published 75 articles and is co-author of a textbook used for radiology residents.

Charles W. Coffey, II, Ph.D.

Charles Coffey received his Ph.D. degree from Purdue University in 1975. Following graduation, he joined the Department of Radiation Medicine at the University of Kentucky Medical Center as a clinical radiotherapy physicist. In 1993, he joined the Department of Radiation Oncology at Vanderbilt Medical Center as Chief of Clinical Physics. He has served in various capacities in the American Association of Physicists in Medicine, including Secretary from 1994-1996. He is board certified by the American Board of Radiology and the American Board of Medical Physics in therapeutic Radiological Physics and is a Fellow of the American College of Radiology. Throughout his career, he has been active in graduate medical physics education; he currently serves as Program Director in the M.S. Medical Physics Program at Vanderbilt. He has 20 publications in referred journals and several book chapters.

Karen P. Doppke, M.S.

Karen Doppke received a M.S. degree from the University of Wisconsin, where she studied radiation damage in thermoluminesent dosimeters. In 1974, she joined the Department of Radiation Medicine, Harvard Medical School at Massachusetts General Hospital. She has been active at both the national and local level of the AAPM. Ms. Doppke has served on various AAPM Committees and Task Forces. She was Board Member at Large and is presently Board Representative for The New England Chapter and was President of the Chapter. Ms. Doppke is certified by the American Board of Radiology in Therapeutic Radiation Physics. She served on the American Board of Radiology Task Force for Radiological Physics written Examinations, is active in the American College of Radiology accreditation program, and is a member of the Committee on Practice Accreditation in Radiation Oncology. Ms. Doppke has authored 37 peer-reviewed articles and five chapters.

James M. Galvin, D.Sc.

James Galvin received his M.S. degrees in Nuclear Engineering and Medical Physics from the University of Cincinnati. After working as a clinical physicist at the Joint Center for Radiation Therapy, he received his D.Sc. degree in Medical Radiological Physics from the Department of Environmental Health Sciences at the Harvard School of Public Health. He then moved to the Hospital of the University of Pennsylvania where he remained for a period of fifteen years. After a five year tenure as the Director of Radiation Therapy Medical Physics at New York University Medical Center Hospital, he returned to Philadelphia. He is now the Director of Medical Physics for the Department of Radiation Oncology at Thomas Jefferson University Hospital and is Professor at Jefferson Medical College. Dr. Galvin has served on the Board of Directors, held a number of committee assignments, and is currently the secretary of the AAPM.

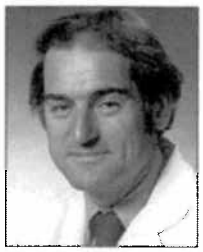
Robert G. Gould, Sc.D.

Robert Gould received a Doctor of Science Degree in Medical Physics from Harvard University in 1978 and a Master's Degree in Biomedical Electronic Engineering from the University of Pennsylvania. In 1978, he joined the Department of Radiology at the University of California San Francisco where he is now a Professor of Radiology and Bioengineering, Chief of the Physics Section, and Co-Director of the Clinical PACS. He has served on many AAPM committees, most recently as Chair of the Scientific Program Committee. During his tenure as Program Committee Chair, he oversaw the implementation of the electronic abstract submission program currently in use by the AAPM and was AAPM Liaison to the Program Committee of the Radiological Society of North America. He has been on the AAPM Board of Directors as a Chapter representative. Dr. Gould has more than 50 peer-reviewed published papers.

James M. Hevezi, Ph.D.

James Hevezi received his Ph.D. from Notre Dame University in 1969 and accepted a fellowship at the University of Wisconsin. He then joined M.D. Anderson in Diagnostic Radiological Physics and was certified by the ABR in 1975. Dr. Hevezi joined the University of Arizona oncology group in the early 80's and was ABR certified in therapy in 1985. In 1992, Dr. Hevezi became Director of Medical Physics at the Cancer Therapy and Research Center in San Antonio. Active in AAPM and ACR, he was named an ACR Fellow in 1992. He is currently the Chair of the ACR's Commission on Medical Physics Economics Committee. He serves on ASTRO economics committees. Dr. Hevezi has published 25 papers and chapters; is Adjunct Professor at the University of Texas Health Science Center in San Antonio; has mentored Ph.D. and M.S. Medical Physics students; and is currently working on 3D CT-Guided brachytherapy.

Douglas Jones, B.Sc.



Douglas Jones received his undergraduate education at King's College, Durham University. He pursued a postgraduate degree in Medical Radiation Physics in the combined program at the Middlesex and St. Bartholomew's Hospital, London when he was invited, in 1966, to join Controls for Radiation and assist Bengt Bjarngard in the commercial development of TLD. In 1969 he returned to medical physics at the University of Washington and with Peter Wootton founded the Northwest Medical Physics Center. Mr. Jones is Director of this organization which provides medical radiation physics consultation to 20 institutions in Washington, Oregon, Alaska and Nevada. He served on the AAPM Board from 1979 to 1982 and many committees since 1973. He is certified by the American Board of Radiology in Therapeutic Radiological Physics and is a Fellow of the American College of Radiology. Mr. Jones has published over 70 papers in peer-reviewed journals and holds 3 patents.

John S. Kent IV, M.S.

John Kent received his Masters of Science degree from Purdue University in 1976. After working at Indiana University Medical Center and Battelle Memorial Institute-Northwest Pacific Northwest Laboratories, he joined the Radiation Therapy Department of Methodist Hospital in 1980. A member of the AAPM since 1977, he has served two terms on the Board of Directors. Mr. Kent currently serves as chair of the Investment Advisory Committee, a member of the Professional Information and Clinical Relations committee, and on the Editorial Board of the Newsletter. He also serves on committees of the American College of Radiology and the American Institute of Physics. He is a diplomat of the American Board of Radiology in Therapeutic Radiological Physics. In 1999 Mr. Kent was elected a fellow in the American College of Radiology.

H. Dale Kubo, Ph.D.

Dale Kubo received his Ph.D. from the University of Rochester in 1973. After completing a Medical Physics Fellowship Program at Memorial Sloan-Kettering Cancer Center in 1979, he joined the Department of Radiation Oncology at Massachusetts General Hospital. He is now Professor of Radiation Oncology at the University of California-Davis Medical Center. Dr. Kubo has served in many capacities in the American Association of Physicists in Medicine. He is currently a committee member for the Assessment of Technology, and serves as Associate Editor of Medical Physics. He is Board Certified by the American Board of Radiology in Therapeutic Radiological Physics. His current research interest is implementation of breathing synchronized radiotherapy (BSRT) in the clinic. Dr. Kubo has published 72 papers in peer-reviewed journals, out of which he is the principal author on 56 papers.

Pei-Jan Paul Lin, Ph.D.

Paul Lin received his Ph.D. from the University of Tsukuba, Japan in March, 1981 while on staff at the Department of Radiology, Northwestern University Medical School. He is a professor of radiology at Northwestern and is a Consultant Physicist at Northwestern Memorial Hospital. Dr. Lin served as the Chairman of Diagnostic Imaging Committee of the AAPM, and is still active in various task groups of that committee. He is interested in the image quality assessment, quality assurance, acceptance testing, instrumentation, and phantom design of radiological imaging equipment. Dr. Lin is a recipient of "Distinguished Alumni Award of DePaul University" in September, 1987 from which he has received his M.S. degree in 1974. He is certified by the American Board of Radiology, and the American Board of Medical Physics in diagnostic imaging physics. He is currently a Board Member of the American Board of Medical Physics.

Wendell R. Lutz, Ph.D.

Wendell Lutz received a Ph.D. in nuclear physics from Purdue University in 1973. After six years of undergraduate teaching, he entered a post-doctoral training program in medical physics at the Joint Center for Radiation Therapy in Boston, subsequently joining the medical physics staff. He remained there for seven years before taking a position in the Radiation Oncology Department at the University of Arizona, Tucson. From 1995-1999, Dr. Lutz was a member of the Medical Physics Department at the Memorial Sloan-Kettering Cancer Center, and is now a consultant. He has served the AAPM as a member of the Board and on several Task Groups. He has worked in a variety of treatment techniques including total body irradiation, radiosurgery, and intraoperative radiation therapy, as well as linac quality assurance. Throughout his career, Dr. Lutz has maintained an interest in teaching and has published numerous papers in peer-review journals.

Thomas R. Mackie, Ph.D.

Rock Mackie received his Ph.D. at the University of Alberta in 1984. In 1987, he joined the faculty of the University of Wisconsin, where he is now a Professor. Dr. Mackie pioneered the convolution-superposition dose computation method and the use of the Monte Carlo method in treatment planning. He has been an advisor for more than a dozen doctoral students and the co-author of more than 50 articles. He is a co-inventor of many patents, including the binary multileaf collimator. He is currently developing a clinical prototype of a helical tomotherapy unit. Dr. Mackie is active in the AAPM. He has advised several Task Groups, co-directed the 1996 Summer School, was a member of the Radiation Therapy Committee, and an Associate Editor of *Medical Physics*. Dr. Mackie is currently on the AAPM Board of Directors.

Melissa C. Martin, M.S.

Melissa Martin received her M.S. degree in Medical Physics from the University of California at Los Angeles in 1975. After 17 years as a hospital based physicist in Southern California, she joined Therapy Physics, a medical physics consulting group located in Bellflower, California. In 1994, she became President of Therapy Physics. Following service on the Professional Council of the AAPM as chairperson of the Legislation and Regulation Committee, and on the Annual Meeting Coordination Committee and Finance Committee, she is currently serving on the Executive Committee as Treasurer. Ms. Martin is board certified by the ABR in Radiological Physics and by the ABMP in Radiation Oncology Physics. She is also professionally active in the ACR and the ACMP. In 1994, she was made a Fellow of the ACMP. Ms. Martin has made over 100 presentations to physicians, physicists, and other medical professionals.

Daniel L. McShan, Ph.D.

Daniel McShan received his Ph.D. in 1971 from Purdue University. After a two-year post-doctoral fellowship at Florida State University, he joined Rhode Island Hospital in Providence, Rhode Island where he worked in the Department of Radiation Oncology and at Brown University until 1984. He worked primarily on computer application developments pioneering concepts in the development of three-dimensional radiation therapy treatment planning including the use of Beam's Eye View and the use of color graphics for displays of dose and anatomy. In 1984, Dr. McShan moved to the University of Michigan and was appointed Professor in 1997. He was co-founder of the first successful comprehensive three-dimensional treatment planning system. He also co-developed the University of Michigan's system for computer-controlled treatment delivery. Dr. McShan received his professorship at the University of Michigan in 1997 and is continuing work on developments supporting improved planning and delivery of state of the art radiotherapy .

Charles A. Mistretta, Ph.D.

Chuck Mistretta received his PhD from Harvard University in 1968. At the University of Wisconsin in 1971 John Cameron introduced him to medical imaging. Early experiments in dual energy x-ray imaging led to the development of a real time digital imaging device that became the prototype for x-ray DSA. Dr. Mistretta received the Laufman Greatbatch Prize for the development of DSA in 1983. He became the John R. Cameron Professor of Medical Physics in 1986. He has over 110 referred publications and 116 invited presentations. He has trained 28 doctoral students and 14 post-doctoral fellows. The accomplishments of his former students include the development of MR fluoroscopy, spiral CT, and thermoacoustic CT. He holds over twenty patents including several related to the implementation of DSA using magnetic resonance. Dr. Mistretta shared the 1998 J. Allyn Taylor International Prize in Medicine for outstanding career contributions to medical imaging.

Stephen W. Nagy, Ph.D.

Stephen Nagy received his Ph.D. from the University of Connecticut in 1969, and accepted an appointment as Assistant Professor of Physics at the University of Vermont. In 1977 became a Medical Physics Fellow at Memorial Sloan-Kettering Cancer Center. In 1981, he left Hackensack Medical Center to join the medical staff of The Mary Imogene Bassett Hospital in Cooperstown, NY where he practices today as the Hospital Medical Physicist and RSO. Dr. Nagy is a diplomat of both the ABR and ABMP. In addition to the AAPM he is a member of the ACR, ASTRO, HPS, both RAMPS and the Upstate New York AAPM Chapter and a fellow of ACMP. In the ACMP, he served on the original Board of Chancellors, as Secretary and, in 1994, as Chairman of the Board.

Amos Norman, Ph.D.

Amos Norman earned his Ph.D. in Biophysics from Columbia University in 1951 and, after a postdoctoral year, joined the Department of Radiology at the University of California, Los Angeles where he is Professor Emeritus in Radiation Oncology and in the Interdepartmental Graduate Program in Biomedical Physics, which he helped found. He is board certified in radiological physics, an ACR fellow and an Associate Editor of *Medical Physics*. Dr. Norman investigated radiation damage and repair in human lymphocytes and proposed multitarget, thermal spike and kinetic models to interpret the data. He has developed x-ray phototherapy, the use of contrast media to enhance the radiation dose absorbed by tumors, and devised the CTRx, a modified CT scanner, which he used to deliver such therapy to control canine and human brain tumors. Dr. Norman also demonstrated the necessity to identify radiation sensitive patients in order to optimize radiation therapy and investigated methods to do so.

George D. Oliver Jr., Ph.D.

George D. Oliver, Jr. received his Ph.D. degree from University of Oklahoma in 1968. After completing a Fellowship in Medical Physics from M.D. Anderson Hospital and Tumor Institute, he joined the staff as Assistant Professor. In 1972 he joined the Mallinckrodt Institute of Radiology as Associate Professor and Director of Medical Physics. Since 1977 he has been in private practice with The Medical Physics Group, Ltd. in St. Louis. For 20 years he has organized support and has provided total radiological physics services to hospitals, clinics and offices in the region. His teaching in Radiological Sciences has been a major endeavor. Dr. Oliver has 35 publications in refereed journals. He has been active in the Missouri Valley chapter of the AAPM and in the Missouri Radiological Society. Dr. Oliver has been Board certified by the ACR and the ABMP; he also is a Fellow of the ACMP and the ACR.

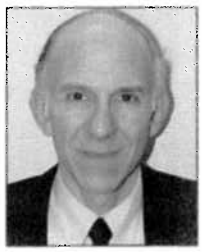
Satish C. Prasad, Ph.D.

Satish Prasad received his Ph.D. degree in Physics from the University of Massachusetts in Amherst in 1972. After completing a Medical Physics Training Program at the University of Colorado Medical Center in Denver, he joined the Division of Radiation Oncology at the Mallinckrodt Institute of Radiology in St. Louis in 1976. He moved to Syracuse, New York in 1981 where he is currently a Professor of Radiation physics in the Department of Radiation Oncology at the State University of New York, Health Science Center. Dr. Prasad has served the American Association of Physicists in Medicine in many different capacities at the national as well as the chapter level. He is certified by the American Board of Radiology in Therapeutic and Diagnostic Radiological Physics. Dr. Prasad has published over 40 papers in peer-reviewed journals and several book chapters.

Isaac Rosen, Ph.D.

Isaac Rosen received his Ph.D. degree in physics from the University of New Mexico in 1982. He is an Associate Professor in the Department of Radiation Physics at the University of Texas M. D. Anderson Cancer Center and leader of the Treatment Planning and Information Technology Group. He also holds a faculty appointment in the University of Texas Graduate School of Biomedical Sciences. He has served on the Board of Directors of the American Association of Physicists in Medicine and on a variety of committees and task groups. As a representative of the American College of Radiology, he served on the United States Technical Advisory Committee to the International Electrotechnical Commission. Dr. Rosen is certified by the American Board of Radiology and the American Board of Medical Physics and is licensed by the State of Texas. He has published over 40 papers in peer-reviewed journals.

Stephen Rudin, Ph.D.



Steve Rudin has been a clinical medical physicist and medical imaging researcher for over 30 years after being educated at the University of Chicago and the City University of New York. Dr. Rudin has over 150 publications in numerous fields including scanning beam radiography, region-of-interest fluoroscopy, and microangiographic and flow techniques for image guided interventional procedures. He serves as Professor of Radiology, Research Professor of Neurosurgery, Biophysics, Physics, and Engineering; is Director of the Division of Radiation Physics and the Medical Physics Program at the University at Buffalo; Co-Director of the University at Buffalo (SUNY)-Toshiba Stroke Research Center; and RSO of Erie County Medical Center. Steve is certified by the American Board of Radiology and the American Board of Health Physics. Currently, Dr. Rudin is President of the Upstate New York Chapter of the AAPM and President of the Faculty Council of the University at Buffalo (SUNY) School of Medicine and Biomedical Sciences.

J. Anthony Seibert, Ph.D.

James Anthony Seibert received his Ph.D. degree in Radiological Sciences from the University of California, Irvine in 1983. That same year he joined the Department of Radiology at the University of California Davis Medical Center in Sacramento, where he is now Professor of Radiology. Dr. Seibert has served in many capacities in the AAPM, including scientific program co-director of the 1991 and 1999 AAPM Summer Schools, chair of Task Group #10 on computed radiography, chair of the annual meeting and refresher course subcommittee, and current chair of the Continuing Education Committee. Other positions include chair of the RSNA physics program subcommittee, and chair of the American Board of Radiology Diagnostic Physics written board subcommittee. He is board certified by the American Board of Radiology in Diagnostic and Therapeutic Radiological Physics. Dr. Seibert has published over 60 papers in peer-reviewed journals, and is co-author of a popular diagnostic physics textbook.

Claudio H. Sibata, Ph.D.

Claudio Sibata is a Professor and Director of Medical Physics, Department of Radiation Oncology of the Case Western Reserve University School of Medicine. He received his Ph.D. degree from the University of Wisconsin in 1994. Dr. Sibata has been active in the Brazilian Medical Physics Association since the early 1970's. He participated in the formation of the board certification for medical physics in that society and was a board member from 1976 to 1978. He is a member of the AAPM Latin American Affairs Committee. He has contributed to several IAEA sponsored courses in Medical Physics for Latin American countries, and was part of the organizing committee for the IOMP meeting in Rio de Janeiro in 1994. He is certified by the ABR in Therapeutic Radiological Physics and the ABMP in Radiation Oncology Physics. Dr. Sibata has published 48 papers in peer-reviewed journals, five chapters, and 22 technical reports and conference manuscripts.

Melvin P. Siedband, Ph.D.

Melvin Siedband received his Ph.D. from the Medical College of Wisconsin in 1994 after retiring from the University of Wisconsin as Emeritus Professor. Before joining the University of Wisconsin, Dr. Siedband was an Engineering Manager at the Westinghouse X-Ray Division and before that was at the Westinghouse Electron Tube Research Lab. He is the principal or co-inventor of around 50 patents including radar circuits, camera tubes, x-ray circuits, kV meters, and other x-ray instruments. He is the author of more than 50 papers and book chapters. He was active in the AAPM on committees on medical imaging and was Chair of the ad hoc committee which wrote AAPM Report No.4, Basic Quality Control in Diagnostic Radiology. He is a Professional Engineer and Certified by the ABMP in Medical Imaging. Dr. Siedband is a reviewer for *Radiology*, *Radiographics*, *PMB*, *Medical Physics* and remains active as a consultant in Medical Physics and electrical engineering.

Thomas G. Stinchcomb, Ph.D.

With a Ph.D. degree (1951, cosmic-ray physics) from the University of Chicago, Dr. Stinchcomb returned there (1976) working in microdosimetry of neutron beams on a year's leave. Back at full-time at DePaul University's Physics Department, he was director of and taught in its Medical Physics Program until his retirement as Professor Emeritus in 1991. During this time, he kept up and continues presently his research association with the Medical Physicists at the University of Chicago expanding microdosimetry to internal alpha-particle emitters. For the American Association of Physicists in Medicine, he served on Committees on Continuing Education and on Education of Medical Physicists. He was Co-chairman of Local Arrangements, 1994 Summer School. For the Midwest Chapter, he was Program Chairman and then President (1987-1992). He was the Lawrence H. Lanzl Lecturer and Awardee in 1997. Dr. Stinchcomb has published 23 papers in peer-reviewed journals.

Keith J. Strauss, M.Sc.

Keith Strauss received his Masters Degree in Medical Physics from the University of Chicago in 1977. He began his career as a Diagnostic Radiologic Physicist at Michael Reese Hospital in Chicago. In 1984, he became the Director of Radiology Physics and Engineering at Children's Hospital in Boston and joined the faculty of Harvard Medical School. Keith is board certified by the American Board of Radiology and the American Board of Medical Physics in Diagnostic Radiology. Mr. Strauss has served in a variety of capacities in the American Association of Physicists in Medicine. He currently is a member of the Diagnostic X-Ray Imaging Committee, a couple of its task groups, and of the Publications Committee. He continues to serve as a liaison to the Conference of Radiation Control Program Directors. Mr. Strauss has also been active in the American College of Radiology and is currently serving on its Interventional-Vascular Accreditation Program Committee.

Orhan H. Suleiman, Ph.D.

Orhan Suleiman received his M.S. from the University of Florida's School of Medicine in 1972, and his Ph.D. from the Johns Hopkins School of Hygiene and Public Health in 1989. He has served on numerous AAPM and International Electrotechnical Commission (IEC) committees and has authored over 70 papers in peer-reviewed journals on diagnostic radiology quality assurance, film processing, and radiation dose. He is currently Chief, Radiation Programs Branch, within FDA's Division of Mammography Quality and Radiation Programs; responsible for the implementation of the Mammography Quality Standards Act (MQSA); responsible for the Nationwide Evaluation of X-ray Trends survey program and also the current Executive Secretary of FDA's Technical Electronic Products Radiation Safety Standards Committee (TEPRSSC), the advisory committee associated with the Radiation Control for Health and Safety Act of 1968.

David L. Vassy, Jr., M.S.

David Vassy received his M.S. Degree in Physics from Clemson University in 1978. After two years as a consultant in Washington, D.C., he became the first full-time medical physicist at Spartanburg (S.C.) Regional Medical Center (SRMC). Currently, he is associated with Spartanburg Radiation Oncology, P.A., and is Chief Medical Physicist of the SRMC Regional Cancer Center. Within the American Association of Medical Physics, Mr. Vassy has served on the Committee on Education and Training of Medical Physicists, where he co-authored the radiotherapy portion of the AAPM report "Academic Program for Masters of Science in Medical Physics". He has also served on the Professional Information and Clinical Relations Committee. Within the American College of Radiology, he has served on the Committee on Physics Practice, and is currently chairman of the ACR Committee on Standards and Accreditation. Mr. Vassy sits on the ACR Commission on Medical Physics and Commission on Standards and Accreditation.

Carl J. Vyborny, M.D., Ph.D.

Carl Vyborny received his Ph.D. in Medical Physics in 1976 and his M.D. with Honors in 1980 from the University of Chicago. He is presently Senior Attending Radiologist at LaGrange Memorial Hospital in LaGrange Illinois and Clinical Associate Professor of Radiology at the University of Chicago. A member of the AAPM since 1975, he has been a faculty participant at various sessions of the Association. In 1986 he helped develop the Mammography Accreditation Program of the American College of Radiology. Dr. Vyborny is currently Chair of the Report Committee on Chest Radiography of the ICRU, Co-Chair of the DICOM Working Group on Digital Mammography, a member of the Board of the Academy of Radiology Research and Vice President of the Chicago Radiological Society. He is a Fellow of the American College of Radiology and the Society of Breast Imaging and has published more than 100 peer-reviewed articles, proceeding papers, and book chapters.

Charles R. Wilson, Ph.D.

Charles Wilson received his Ph.D. in Radiological Sciences from the University of Wisconsin in 1972. He joined the Department of Diagnostic Radiology at the Medical College of Wisconsin in 1974 where he is Chief of the Medical Physics and Imaging Science Section. Dr. Wilson has served the AAPM over the years and is currently chair of the Diagnostic X-ray Imaging Committee. He is board certified by the American Board of Radiology in Radiological Physics and is a Fellow of the American College of Radiology. He would like to thank John R. Cameron for introducing him to medical physics and would like to thank Carol, his wife of nearly 37 years, for her support and encouragement throughout his career in medical physics.

Ellen D. Yorke, Ph.D.

Ellen Yorke received her Ph.D. in physics from the University of Maryland in 1967. From 1968-1985, she taught an assortment of physics courses at the University of Maryland, Baltimore County. In 1983, she trained in medical physics in the Division of Radiation Oncology at George Washington University. In 1985, Dr. Yorke became a faculty member and clinical medical physicist and remained there till 1997. She was active in the AAPM Mid-Atlantic Chapter, including editing the chapter newsletter. From 1997-1998, Dr. Yorke was Chief Clinical Physicist in Radiation Oncology at the University of Pennsylvania. She is currently an Associate Attending Physicist at Memorial Sloan-Kettering Cancer Center. Dr. Yorke is board certified by the American Board of Radiology. She is an Associate Editor of *Medical Physics*, a member of the AAPM Radiation Therapy Committee, the Program Committee and several AAPM task groups. Dr. Yorke has published over 50 papers in peer-reviewed journals.

Farrington Daniels Award

The Farrington Daniels Award for the best paper on Radiation Dosimetry published in *Medical Physics* in 1998 is presented to:

David W. O. Rogers, Ph.D.

for his paper entitled "A new approach to electron-beam reference dosimetry," *Med. Phys.* 25 (3), March 1998, pp. 310 - 320.

It should be pointed out that this paper was dedicated to the memory of F. Herb Attix who insisted that there must be an electron-beam equivalent of k_Q for photon beams.

Sylvia Sorkin Greenfield Award

The Sylvia Sorkin Greenfield Award for the best paper (other than Radiation Dosimetry) published in *Medical Physics* for 1998 is presented to:

Willi A. Kalender, Ph.D.
And
Marc Kachelriess, Ph.D.

for their paper entitled, "Electrocardiogram-correlated image reconstruction from subsecond spiral computed tomography scans of the heart," *Med. Phys.* 25 (12), December 1998, pp. 2417-2431.