American Association of Physicists in Medicine



Awards Ceremony

July 25, 1995 Boston Marriott at Copley Place Grand Ballroom Boston, Wlassachusetts 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.

1995 Program

Welcome and Presentation of Awards

Guy H. Simmons, Ph.D., FAAPM
AAPM President

Young Investigators Competition

AAPM/IPSM Travel Award

Surendra N. Rustgi, Ph.D.:

AAPM Medical Physics Travel Award

Indra J. Das, Ph.D.

Farrington Daniels Award

Joseph O. Deasy 4 Christopher G. Soares, Ph.D.

Sylvia Sorkin Greenfield Award

Philip Caligiuri, M.D. Maryellen L. Giger, Ph.D. Murray Favus, Ph.D.

AAPM Fellows

Stephen Balter, Ph.D., FAAPM
Arthur L. Boyer, Ph.D. FAAPM
William F. Hanson, Ph.D., FAAPM
Donald E. Herbert, Ph.D., FAAPM
Kenneth R. Hogstrom, Ph.D., FAAPM
Bhudatt R. Paliwal, Ph.D., FAAPM
Louis K. Wagner, Ph.D., FAAPM

William D. Coolidge Award Robert Loevinger, Ph.D.

Closing Remarks

Reception immediately following

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.

William D. Coolidge Award

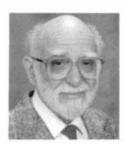
The AAPM's highest honor is presented to a member who has exhibited a distinguished career in medical physics, and who has exerted a significant impact on the practice of medical physics.

William D. Coolidge Award Recipients

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

AAPM William D. Coolidge Recipient for 1995

Robert Loevinger, Ph.D.



Robert Loevinger (born 1916, St. Paul, Minnesota) received his BA degree in Astronomy and Mathematics (with a minor in Physics) magna cum laude from the University of Minnesota and his MA, in Astronomy from Harvard.

In 1941 Dr. Loevinger joined the Manhattan Project at Berkeley. He took high-speed motion pictures of the first atomic bomb test in Los Alamos and later went to Hollywood for the processing of aerial films from the Hiroshima explosion. After the war he continued his studies at the Donner Laboratory where he completed his doctoral research on the application of the Bragg-Gray equation to 100 MeV neutrons in 1947.

Dr. Loevinger started his career in medical physics as an Assistant Physicist in therapeutic and diagnostic radiology at Mount Sinai Hospital in New York. His work designing extrapolation chambers and interest in radionuclide dosimetry led to several papers and two chapters in 'Radiation Dosimetry' (edited by Hine and Brownell, 1956), the first comprehensive volume on medical radiation physics.

In 1956 Dr. Loevinger became a fellow at the Royal Marsden Hospital (London) working on beta-particle dosimetry. In 1957 he moved to Stanford University Medical Center to work with C.J. Karzmark and M. Weissbluth. He worked with 10 to 40 MeV

electron beam and nuclear medicine dosimetry. He published the first overview of the physics of electron beam therapy and developed his third extrapolation chamber, primarily for the dosimetry of whole-body electron beam treatment systems.

In 1965 Dr. Loevinger joined the International Atomic Energy Agency (IAEA) in Vienna as Dosimetry Section Chief. Under his direction IAEA developed secondary standard dosimetry laboratories (SSDLs), which are now located in 50 developing countries, part of the worldwide IAEA-WHO network. While in Vienna he coauthored the first version of the MIRD (medical internal radiation dosimetry) schema.

In 1968 he joined the National Bureau of Standards as Dosimetry Group Chief, responsible for dosimetry standards, research, and new calibration services, plus coordination and comparison with foreign calibration labs. He has worked closely with AAPM and suggested the system of AAPM-accredited SSDLs, directly traceable to NBS. Officially Dr. Loevinger retired from the NBS in 1988 but continued to work until 1992—he still "maintains a desk" there. He is currently working on the primary calibration standards of ¹²⁵I sources for which he designed a chamber for photons below 35 keV.

Dr. Loevinger is an AAPM Charter Member. He has served on the subcommittee for radiation dosimetry (SCRAD), and as a member and, later, consultant of the Radiation Therapy Committee. He has also served as a member of the MIRD Committee of the Society of Nuclear Medicine (SNM) from 1968 to 1993. He has authored over 100 publications.

Dr. Loevinger received the Silver Medal from the US Department of Commerce; the AAPM Farrington Daniels Award; a Plaque from the SNM for the MIRD schema; the Special Award for Excellence in Technology Transfer from the Federal Laboratory Consortium; and the Distinguished Scientific Achievement Award from the Health Physics Society.

New AAPM Fellows



Stephen Balter. Ph.D.

chapters.

Dr. Stephen Balter received his Masters degree from Columbia University under Drs. Quimby and Rossi. While at Memorial-Sloan Kettering, with major responsibilities in brachytherapy, diagnostic imaging, and teaching, he earned his Doctorate in Physics at the Polytechnic Institute of Brooklyn. Subsequently, he was the chief physicist at St. Vincent Hospital, Worcester, Massachusetts. For the past 20 years he has divided his time between Philips Medical Systems and the New York Hospital. He is presently Senior Medical Physicist at Philips, and Adjunct Associate

Professor of Physics in Radiology at Cornell, and a consultant to Memorial.

In AAPM, Dr. Balter has served as one of the original co-chairs of the Diagnostic X-Ray Committee, a member of numerous task forces, the History Committee, and the Education Council. He was a founding member of the AAPM-RSNA Physics Tutorial Committee, served as chair, and continues on the committee as liaison for RadioGraphics.

Dr. Arthur Boyer received his Doctorate in physics from Rice University in 1971. After a postdoctoral fellowship at the M.D. Anderson Hospital and Tumor Institute he joined the staff and is presently Professor of Radiation Physics.

Dr. Boyer's educational activities include the short course on "Radiotherapy Treatment Planning Anatomy," serving as co-director of the AAPM Summer School on "Advanced Radiation Therapy Treatment Planning" and the AAPMsponsored "Medical Physics Review Course - Therapy". He has supervised six graduate students. He has 62 refereed publications and book



Arthur Boyer, Ph.D

Dr. Boyer is Associate Editor for Medical Physics and the North American Editor for Physics in Medicine and Biology. He served as President of the New England and Southwest AAPM Chapters, Chairman of the Continuing Education Committee, and member of the AAPM Board of Directors. In 1992 he received the Southwest AAPM's Chapter Robert J. Shalek Award.



William F. Hanson, Ph.D.

Dr. Hanson received his Doctorate in Physics from the University of Tennessee in 1971. After his postdoctoral training at the M.D. Anderson Hospital and Tumor Institute he joined the staff and is presently Associate Professor of Radiation Physics, and Chief of the Outreach Physics Section in the Department of Radiation Physics.

Dr. Hanson serves as Director of AAPM's Radiological Physics Center and of an AAPM Accredited Dosimetry Calibration Laboratory. He served on AAPM Task Group

21, and has contributed significantly on quality assurance issues on national and international committees, Dr. Hanson has 48 refereed publications and book chapters.

He has been an invited speaker at national and international conferences. He has supervised 8 graduate students. Dr. Hanson has been on the Dean's Teaching Excellence List for the past six years.

In 1986, Dr. Hanson received the Southwest AAPM Chapter's Robert J. Shalek Award for his outstanding service to medical physics.

Dr. Herbert's involvement in medical physics dates from the 1960s, after teaching physics at the university level for three years, he spent three years in London, England serving as an NCI Special Research Fellow. He has published in peer-reviewed journals and proceedings of national and international scientific meetings, and contributed to, as well as edited, several AAPM Monographs.



Donald E. Herbert, Ph.D.

Dr. Herbert has served AAPM as Associate Editor of *Medical Physics* and as chairman, member, and consultant on AAPM task groups and committees. He has organized and chaired several conferences and workshops on such topics as radiation biology, statistics, and nonlinear dynamics. He has lectured in AAPM Refresher Courses, Mini-Symposia, and Workshops. He served as a consultant in statistics to the Nuclear Regulatory Commission, and as a member of the National Academy of Sciences-National Research Council BEIR V Committee on the 1990 report on the health effects of low level ionizing radiation.



Kenneth R. Hogstrom, Ph.D.

Dr. Hogstrom received his Doctorate in Physics from Rice University in 1976. He received his post-doctoral training in Medical Physics at the M.D. Anderson Hospital and Tumor Institute where he is Professor and Chairman of the Department of Radiation Physics.

Dr. Hogstrom's areas of interest include pion therapy physics and electron beam dosimetry. He has 85 refereed publications and book chapters.

Dr. Hogstrom is Director of Graduate Programs in Medical Physics at the University of Texas where he has supervised five graduate students. He has taught in three AAPM Summer Schools and co-directs a short course in "Dosimetry of High Energy Electron and X-ray Therapy Machines."

He has served on the AAPM Board of Directors, Radiation Therapy Committee, on radiotherapy and educational task groups, and as vice-chairman of the AAPM Commission on Accreditation of Educational Programs for Medical Physicists.

Dr. Hogstrom received 1990 Southwest AAPM Chapter's Robert J. Shalek Award

Dr. Paliwal is Professor of Medical Physics and Human Oncology at the University of Wisconsin Medical School, Madison, Wisconsin. He began his medical physics career He has published extensively in peer-reviewed journals, taught and trained many graduate and doctoral students, and developed tools in the delivery of quality patient care. He has organized many national and international symposia, and reviewed and edited manuscripts, proceedings, and monographs. volunteered his time to teach refresher courses and workshops in other countries.



Bhudatt R. Paliwal, Ph.D.

Dr. Paliwal has served AAPM as an associate editor, book review editor, committee member and chair, and Board member. Currently, as the Chair and President of the Board of Directors of Commission on Accreditation of Medical Physics Education Programs, he is continuing to push forward the important work of accreditation of the education and training programs in medical physics. Dr. Paliwal is also the President-Elect of AAPM.



Louis K. Wagner, Ph.D.

Dr. Wagner received his Doctorate in physics from Florida State University in 1976. He received his post-doctoral training at the Memorial Sloan Kettering Cancer Center. He is presently Professor of Radiological Sciences in the Department of Radiology at the University of Texas Medical School.

Dr. Wagner's interests include diagnostic radiology and radiation-induced injuries. He has 45 refereed publications and book chapters.

Dr. Wagner has participated in several AAPM Summer Schools and the AAPM workshop on beam quality and radiation risks in mammography. He is a member of the University of Texas Graduate School of Biomedical Sciences and has received several dean's teaching excellence awards. He serves on several national and international committees. He has also served on the AAPM Board of Directors and on the Editorial Board of Radiology.

In 1987, Dr. Wagner received the Southwest AAPM Chapter's Robert J. Shalek Award.

Sylvia Sorkin Greenfield Award

Awarded to Philip Caligiuri, M.D., Maryellen L. Giger, Ph.D., and Murray Favus, Ph.D., for their paper entitled, "Multifractal radiographic analysis of osteoporosis", *Med. Phys.* 21 (4), April, pp. 503 - 508.

Farrington Daniels Award

Awarded to Joseph O. Deasy and Christopher G. Soares, Ph.D. for their paper entitled, "Extrapolation chamber measurements of ⁹⁰SR + ⁹⁰ Y beta-particle opthalmic applicator dose rates", *Med. Phys.* 21 (1), January, pp. 91 - 99.