

*American Association  
of  
Physicists in Medicine*



*Awards Ceremony*

*July 23, 2007  
Minneapolis Grand Ballroom  
Hilton Minneapolis  
Minneapolis, Minnesota  
6:00 p.m.*

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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.

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## 2007 Program

### *Welcome and Presentation of Awards*

Mary Martel, Ph.D.  
AAPM President

### *Honoring Deceased AAPM Members*

#### *John R. Cameron Young Investigator Awards*

#### *Jack Fowler Junior Investigator Award*

Frederick Lacroix, Ph.D.

#### *AAPM Medical Physics Travel Grant*

Sonja Dieterich, Ph.D.

#### *AAPM-IPEM Medical Physics Travel Grant*

George Sandison, Ph.D.

#### *Farrington Daniels Award*

Daniel J. La Russa, B.Sc.

David W. O. Rogers, Ph.D.

#### *Sylvia Sorkin Greenfield Award*

Hyunki Kim

Lars R. Furenlid

Michael J. Crawford

Donald W. Wilson

H. Bradford Barber

Todd E. Peterson

William C. J. Hunter

Zhonglin Liu

James M. Woolfenden

Harrison H. Barrett

*AAPM Honorary Membership*

**Donn Brascho, M.D.**

*Fellows*

**Susan Brownie, M.Sc.**

**Chee-Wai Cheng, Ph.D.**

**Joanna Cygler, Ph.D.**

**Bruce Faddegon, Ph.D.**

**Steven Goetsch, Ph.D.**

**John Humm, Ph.D.**

**Mahadevappa Mahesh, Ph.D.**

**Cynthia McCollough, Ph.D.**

**Peter Munro, Ph.D.**

**Adel Mustafa, Ph.D.**

**William Roventine, M.Sc.**

**Christopher Serago, Ph.D.**

**Jan Seuntjens, Ph.D.**

**George Sherouse, Ph.D.**

**Thomas Shope, Ph.D.**

**Ken Shortt, Ph.D.**

**Timothy Solberg, Ph.D.**

**Robin Stern, Ph.D.**

**Cheng-Shie Wu, Ph.D.**

**Di Yan, D.Sc.**

**Marco Zaider, Ph.D.**

**Timothy Zhu, Ph.D.**

*Memorial Presentation*

**John Hale, Ph.D.**

*Recognition of AAPM Service*

**E. Russell Ritenour, Ph.D.**

*Award for Achievement in Medical Physics*

**Lawrence Rothenberg, Ph.D.**

**Marilyn Stovall, Ph.D.**

*William D. Coolidge Award*

**Arthur Boyer, Ph.D.**

*Closing Remarks*

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Reception immediately following in the  
Minneapolis Grand Ballroom of the Hilton Minneapolis

### *John R. Cameron Young Investigator Award*

Each year the AAPM conducts a Young Investigators' Competition for the Annual Meeting. Young Investigators were encouraged to submit abstracts for the competition. The 10 highest scored Young Investigator submissions determined by abstract reviewers are selected to be presented in a special symposium, in honor of University of Wisconsin Professor Emeritus John R. Cameron, Ph.D.

### *Jack Fowler Junior Investigator Award*

An award for Junior Investigators has been established in honor of Dr. Jack Fowler, Ph.D., Emeritus Professor of Human Oncology and Medical Physics, University of Wisconsin. Junior Investigators were encouraged to submit abstracts for the competition. The top scoring Junior Investigator submission determined by abstract reviewers was selected.

### *AAPM-IPEM Medical Physics Travel Grant*

This grant is made annually to a U.S. AAPM member who shows evidence of an active scientific career in medical physics. The purpose of this grant is to promote communications and professional partnerships between U.S. AAPM members and IPEM members from the United Kingdom.

The grant is supported by a donation from Charles Lescrenier of up to \$1,500. In addition, this grant will include £400 from the Institute of Physics and Engineering in Medicine and \$1,250 from AAPM towards expenses incurred in the U.K.

### *AAPM Medical Physics Travel Grant*

This grant is made annually to a U.S. AAPM member to travel to a foreign country of the recipient's choice. The purpose of this grant is to assist in the career development of the recipient and to promote communications in medical physics between nations.

This grant is supported by a donation from Charels Lescrenier of up to \$1,500.

### *Farrington Daniels Award*

The Farrington Daniels Award for the best paper on Radiation Dosimetry published in *Medical Physics* in 2006 is presented to:

**Daniel J. La Russa and David W. O. Rogers**

for their paper entitled "*An EGSnrc investigation of the PTP correction factor for ion chambers in kilovoltage x ray,*" **Medical Physics** 33, 465 (2006).

### *Sylvia Sorkin Greenfield Award*

The Sylvia Sorkin Greenfield Award for the best paper (other than Radiation Dosimetry) published in **Medical Physics** for 2006 is presented to:

**Hyunki Kim, Lars R. Furenlid, Michael J. Crawford, Donald W. Wilson,  
H. Bradford Barber, Todd E. Peterson, William C. J. Hunter,  
Zhonglin Liu, James M. Woolfenden and Harrison H. Barrett**

for their paper entitled "*SemiSPECT: A small-animal single-photon emission computed tomography (SPECT) imager based on eight cadmium zinc telluride (CZT) detector arrays,*" **Medical Physics** 33, 4590 (2006).

## *Honorary Membership*



### **Donn Brascho, M.D.**

Donn Brascho received his medical degree from The State University of New York at Syracuse in 1958. After completing a residency in Radiology at Brooke General Army hospital in 1962, he served as a general radiologist in the military, including a tour in Korea where he was the Radiology Consultant to the 8<sup>th</sup> Army Command. He was certified by the Board of Radiology in December, 1963, and entered academic medicine at the University of Alabama in Birmingham, AL in 1969. He became a professor of Radiation Oncology at the University of Alabama in the department of Radiation Oncology and served as the director of the Radiation Oncology Residency Program from 1974 to 1987. He also was principal investigator of the NCI Cancer Education grant at the University of Alabama from 1973 to 1987. His main clinical interest was radiation treatment planning and in the early 70's he was the first to adopt ultrasound technology to three-dimensional radiation treatment planning, long before computed tomography was introduced. Ultrasound was utilized to obtain patient contours, outline soft tissue tumors in the abdomen and pelvis, determine chest wall thickness and localize normal organs. The images were entered directly into a computerized treatment planning system as the first utilization of a diagnostic modality in three-dimensional computerized radiation treatment planning. He co-authored a book entitled "Abdominal Ultrasound in the Cancer Patient", contributed chapters in six medical books, has published 33 papers in peer reviewed journals and presented 119 lectures at major scientific meetings. He is a fellow of the American College of Radiology, the American College of Radiation Oncology and the American Institute of Ultrasound in Medicine. He served on many American College of Radiology committees, including the Committee on Radiation Therapy Equipment, Committee on Regionalization, Committee on Evaluation of Post Graduate Education and was on Patterns of Care Study of Bladder and the Treatment of Bone Metastases sponsored by the College of Radiology. Dr. Brascho served in the private practice of Radiation Oncology from 1987 to 2006, and continues doing locum tenens in Radiation Oncology throughout the Southeastern U.S.

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## *New AAPM Fellows*

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



### **Susan Brownie, M.Sc.**

Susan Brownie received her M.Sc. in Radiation physics from London University (England) while working at the Royal Marsden Hospital. She came to New York in 1979 and while working as a therapy physicist began to spend part of her time teaching Radiation Therapy technology students and residents at New York University Medical Center, where she stayed until 2004. She has been the president (1991-2)) and treasurer (1988-90) of RAMPS, the NY chapter of the AAPM, and has served on the Radiation Therapy Committee, PICR and Salary Survey Subcommittee of the AAPM. Since 1987 she has been chairman of the Raphex exam committee, chairing the Therapy Subcommittee for many of those years, and arranging for publication and grading of the exam, with the very able assistance of Medical Physics Publishing, Inc. She also contributed to the therapy section of the ABR physics exam from 1989 to 1992. She would like to thank all those members of RAMPS who have contributed to the Raphex exam over the years.



### **Chee-Wai Cheng, Ph.D.**

Chee-Wai Cheng received his Ph.D. degree from the University of Toronto in 1979. After 8 months of residency at the Joint Center for Radiation Therapy (JCRT), he became a staff physicist and faculty at JCRT, Harvard Medical School. In 1990, he joined the faculty at the University of Arizona and was promoted to clinical associate professor and clinical chief in 1995. In 1999, he became the chief physicist at the Department of Radiation Oncology, Morristown Memorial Hospital. Chee-Wai is ABR board certified in Therapy Physics. Chee-Wai enjoys teaching and has taught radiation physics to residents and therapist students. To promote the awareness of medical physics to undergraduate students, he coordinated a 400-level medical physics course with the Physics Department at the University of Arizona. Chee-Wai has served in various committees in the AAPM. He has published over 60 papers in peer-reviewed journals and has over 100 presentations in national and international meetings.



### **Joanna Cygler, Ph.D.**

Joanna Cygler received her Ph.D. degree from the Technical University of Lodz, Poland in 1978. In 1980, she came to Canada and after working 6 years as a research associate at the NRC and the University of Alberta; in 1986 she joined the Department of Medical Physics at Ottawa Regional Cancer Centre, where she is currently employed as a senior medical physicist. She has been a Fellow of Canadian College of Physicists in Medicine since 1994. Dr. Cygler was the founding President of the Cancer Care Ontario Medical Physicists Association, CCOMP. She has been professionally active in the AAPM and currently is a member of the International Affairs Committee and vice-chair of the European Affairs Sub-Committee. She is a member of TG-105, has authored over 40 peer-reviewed publications and was a member of the faculty at the 2006 AAPM Summer School.



### **Bruce Faddegon, Ph.D.**

Bruce Faddegon received an M.Sc. in 1980 from the University of British Columbia, specializing in radiobiology. He trained in medical physics at the Ottawa Regional Cancer Center and was certified with the Canadian College of Physicists in Medicine (CCPM) in 1987. He received a Ph.D. in physics from Carleton University in 1990, specializing in radiotherapy. After a few years at the National Research Council of Canada, Bruce returned to the clinic in 1992. He was elected a Fellow of the CCPM in 1996. Bruce moved to his current position in the Radiation Oncology department at the University of California San Francisco in 2000 and now holds the rank of Associate Professor. Bruce has published 28 peer-reviewed papers and 55 peer-reviewed abstracts. He is active professionally in the AAPM, having served on several committees and task groups, and currently serves as an Associate Editor of Medical Physics.



### **Steven Goetsch, Ph.D.**

Steve Goetsch is Medical Physics Director of the San Diego Gamma Knife Center, instructor in physics at San Diego State University and consultant in medical physics. Dr. Goetsch is former Director of the University of Wisconsin ADCL, Clinical Associate Professor at University of Wisconsin and Associate Clinical Professor at UCLA. He is Past President of the Southern California and North Central AAPM chapters.





### **John Humm, Ph.D.**

John Humm received his Ph.D. degree in 1983 at Southbank University, London, for work performed at the Nuclear Research Center in Juelich, Germany on the dosimetry of Auger electron emitters. He spent 5 years at the Radiobiology Division of the Medical Research Council, in Harwell, developing models for radioimmunotherapy. From 1989-93, he worked at the Joint Center for Radiation Therapy, on patient radioimmunotherapy. In 1993, he moved to Memorial Sloan Kettering as the appointed chief of the nuclear imaging service in 1995. Dr. Humm is board certified by the ABR in both Therapeutic and Nuclear Radiologic Physics.

He was an associate editor of the Radiation Research Journal between 1998-2002. He has written over 100 peer reviewed articles ranging from radiobiology, nuclear medicine, and dosimetry. Dr. Humm currently is PI on project 1 of a hypoxia imaging program project grant, Dr. Humm served as RAMPS president and currently serves as the RAMPS member to the AAPM Board.



### **Mahadevappa Mahesh, Ph.D.**

Mahadevappa Mahesh received his Ph.D. from Medical College of Wisconsin. He joined Johns Hopkins in 1993 and is currently an Asst. Prof of Radiology and Chief Physicist. At AAPM, he is currently the Chair of Audit Committee, Editor of AAPM Newsletter, Chair of AAPM/RSNA Physics Tutorials, and member of several committees. Dr. Mahesh was the President, Secretary-Treasurer of the Mid-Atlantic Chapter of AAPM and AAPM Board member. Dr Mahesh has been active in American College of Radiology and is Chair of the Panel on Physics for ACR-DXIT exam, Co-editor for Physics Columns for JACR, member of

Commission on Medical Physics. He is a member of the Radiation Control Advisory Board for the State of Maryland. He was recently appointed as the contributing editor for RadioGraphics. Dr Mahesh has published over 60 peer-reviewed journal articles, book chapters, articles and abstracts. His research interests include MDCT (Cardiac CT), fluoroscopy, digital mammography and patient radiation dose.



### **Cynthia McCollough, Ph.D.**

Cynthia McCollough received her Ph.D. from the University of Wisconsin-Madison in 1991. She then joined Mayo Clinic as a Diagnostic Medical Physicist and is currently an Associate Professor of Radiologic Physics and the Director of Mayo's CT Clinical Innovation Center. She is involved in over 15 professional societies, including the AAPM, the American College of Radiology, the Radiological Society of North America, and the American Heart Association. She has served on the AAPM Board of Directors and as the chair of several task groups and committees. She is a member of the National Council on Radiation Protection and an

Associate Editor for Radiology and Medical Physics. She is certified by the American Board of Radiology in Diagnostic Radiologic Physics. Dr. McCollough has been recognized with over 35 professional awards and has authored nearly 50 peer-reviewed journal articles. She actively mentors many students and interns, from high school to graduate students.



### **Peter Munro, Ph.D.**

Peter Munro received his Ph.D. degree from the University of Toronto in 1990 after having completed his clinical physics training at the Princess Margaret Hospital in 1982-1984. He joined the Department of Oncology at the University of Western Ontario in 1990 as an Assistant Professor and was also medical physicist at the London Regional Cancer Center in London, Canada. He was promoted to the Associate Professor level in 1996. In 2001 he joined the Ginzton Technology Center in Mountain View, CA – the research division of Varian Medical Systems. In 2003 he transferred to the Oncology Systems division of Varian where

he currently manages the development of the On-Board Imager. He has served on AAPM committees related to imaging in the treatment room and been active in the Canadian Organization of Medical Physicists and in the EPI conferences. Dr. Munro has 39 peer reviewed publications.



### **Adel Mustafa, Ph.D.**

Adel Mustafa received his Ph.D. in Medical Physics from the University of Surrey, England in 1981. After serving as a post-doc fellow at Surrey University he joined the Department of Radiology at the Faculty of Medicine, Kuwait University from 1982-1990. In 1991 he joined the Department of Radiology at St. Vincent's Manhattan of New York Medical College where he is Assistant Professor of Radiology and the hospital chief of medical physics. He taught medical physics to radiology residents for more than 20 years. He is certified by the ABR and the ABMP in Diagnostic Imaging Physics. He is a key member of the RAPHEX committee and for several years has been Editor of the diagnostic part of the examination. He has been active on a number of AAPM committees including several task groups and Co-chair of the ISEP through which he organized several international courses given to medical physicists in developing countries. Dr. Mustafa has also served as training expert to the WHO and the IAEA.



### **William Roventine, M.Sc.**

William Roventine obtained an M.Sc. degree in Radiological Physics, under a PHS fellowship, from Columbia University in 1969. He is certified by the ABR (Radiological Physics - 1976) and ABMP (Radiation Oncology Physics - 1991) and is a founding member and Fellow of the ACMP. He has been engaged in the clinical practice of medical physics since 1969. Initially he served as sole Radiological Physicist at St. Barnabas Medical Center (Livingston), from 1971 through 1989, as Director of Radiological Physics at Roger Williams General Hospital (Providence), and since 1990 in full-time consulting practice as Radiation Physics Services. For over 30 years he has been involved with AAPM professional issues. He has served on the AAPM Board and Committees and as a member of the Professional Council since 1979. For the past 27 years, he has been responsible for shepherding and overseeing the AAPM member insurance program.



### **Christopher Serago, Ph.D.**

Following receipt in 1975 of a Masters degree in Radiological Physics from Carnegie-Mellon University, Christopher Serago began his medical physics career at Presbyterian University Hospital in Pittsburgh, now the University of Pittsburgh Medical Center. He completed his Ph.D. at the University of Pittsburgh in 1983. He served as the Director of Medical Physics at Baptist Hospital of Miami, followed by a term as faculty of Harvard Medical School at Massachusetts General Hospital. For the last 11 years, Dr. Serago, now an Associate Professor at the Mayo Clinic College of Medicine, has been serving as the Chief Physicist in Radiation Oncology at Mayo Clinic, Jacksonville, Florida. Dr. Serago has authored or co-authored 29 peer reviewed papers. He has a long established career as an educator in the field of Medical Physics. Dr. Serago is currently on the AAPM and ACMP Board of Directors and is the incoming chair of the AAPM Ethics Committee.



### **Jan Seuntjens, Ph.D.**

Jan Seuntjens received his Ph.D. degree in Radiation Dosimetry at the University of Gent in 1991. He was a post-doc at the same university until 1995 when he moved to the National Research Council, Canada in Ottawa and was involved with absorbed dose radiation standards and the measurement of beam quality conversion factors forming experimental backup of the current day absorbed dose protocols. As of 2000 he has been an associate professor at McGill University in Montreal. He teaches radiation physics and his research program revolves around accurate dosimetry techniques in calibration and radiation therapy planning and delivery. He has co-authored approximately 80 peer-reviewed publications, holds several PEER-reviewed operating grants and has a research group currently comprising 11 students and post-docs. Dr. Seuntjens is involved in calibration laboratory accreditation and monitoring as chair of the AAPM Calibration Laboratory Accreditation Subcommittee and has appointments in various AAPM committees and workgroups.





### **George Sherouse, Ph.D.**

George Winthrop Sherouse received his Medical Physics M.S. degree in 1981 followed by intensive clinical training at the University of Florida, where he absorbed from his mentors a sustaining vision of the Medical Physicist as technologically sophisticated clinical problem solver. After a 2-year stint as a physicist and programmer at a commercial treatment planning firm, he moved to the University of North Carolina where he spent the following decade developing the first modern GUI-based 3D treatment planning system (GRATIS), including the original Virtual Simulator. He idealistically chose to freely share his software rather than commercialize it. That work and its clinical implementation provided the dissertation for his Ph.D., awarded in Biomedical Engineering by UNC in 1992. He also established an e-mail list for Medical Physicists in 1985 that he named MEDPHYS. In 1998 Dr. Sherouse left the towers of academe to build his business as an independent contractor and consultant.



### **Thomas Shope, Ph.D.**

Dr. Shope received his Ph.D. degree in physics from the Univ. of Georgia, joined the U.S. Public Health Service, and the FDA, all in 1974. He has been a leader in the FDA safety program for diagnostic x-ray equipment, making contributions in CT dosimetry, safety of fluoroscopic procedures, development of safety recommendations and other educational activities, and as a manager of imaging research activities. He served as FDA liaison to AAPM committees. Dr. Shope contributed to development of the FDA standard for CT x-ray systems and the concept of the CTDI for describing radiation dose from CT scanners in the 1970's. He has authored seven peer-reviewed publications, presented over thirty presentations, and has led development of standards and regulations for x-ray equipment. He has served as co-course director for the 1995 RSNA Categorical Course in Physics, and for the 2002 AAPM Summer School. He has also served as assistant editor and reviewer for Medical Physics.



### **Ken Shortt, Ph.D.**

As head of the Dosimetry and Medical Radiation Physics section at the IAEA, Dr. Shortt transfers technology internationally in radiation measurement and medical radiation physics, particularly radiation therapy. Following ISO-17025, he is responsible for the quality of services provided by the central dosimetry laboratory in the SSDL Network. He focuses on the Agency's medical physics work in Latin America but has projects in other regions, such as building the first cancer therapy centre in Lusaka, Zambia. He supported the education of medical physicists internationally by fostering publication of the handbook on "Radiation Oncology Physics" edited by Ervin Podgorsak. Prior to joining the IAEA, he was a Senior Research Officer at the National Research Council of Canada, responsible for R & D of primary standards for radiation measurement. He publishes mostly in the field of radiation dosimetry and is a world-class expert on the use of the Fricke dosimetry technique.



### **Timothy Solberg, Ph.D.**

Dr. Solberg received an M.S. degree in physics from UC Davis and a Ph.D. degree in biomedical physics from UCLA. He is certified by the American Board of Radiology. He joined the UCLA faculty in 1996, was promoted to Associate Professor in 2000 and Full Professor in 2004. He served as Director of Medical Physics from 2001 to 2005. He provided graduate instruction within the UCLA Biomedical Physics Graduate Program from 1996 to 2005, during which time he supervised over 20 graduate students. Dr. Solberg is well known for his work in stereotactic radiosurgery, IMRT, image guided radiotherapy and radiation transport methods. He is actively involved in research and has written many publications. He has received funding from numerous sources, including the NIH, the American Cancer Society, and the Whitaker Foundation. In 2005 Dr. Solberg assumed the position of Professor and Director of Medical Physics at the University of Nebraska Medical Center.



### **Robin Stern, Ph.D.**

Robin Stern received her Ph.D. in Physics from the University of Michigan in 1987, followed by postdoctoral training first in MR Imaging, then in Radiation Oncology. In 1992 she joined the faculty of the Radiation Oncology Section (now Department) of the University of California, Davis, where she is now Professor and Chief Clinical Physicist. She obtained ABR certification in Therapeutic Radiologic Physics in 1997, and for the past three years has served as item writer for the board exam. Dr. Stern is deeply committed to teaching. She gives didactic lectures to physics and physician residents and provides individualized clinical training to residents, students, and staff. Dr. Stern is very active in AAPM at both the local and national levels. She is currently a member of several QA-related committees and working groups and chair of Task Group 114. Dr. Stern has published 24 papers in peer-reviewed journals.



### **Cheng-Shie Wu, Ph.D.**

Cheng-Shie Wu received his Ph.D. in Radiation Biophysics from University of Kansas in 1985. After completing the clinical training at Yale University he joined the Department of Radiation Oncology at Columbia University in 1988. He is currently Professor of Clinical Radiation Oncology (also in Environmental Health Sciences and in Applied Physics) and Director of Medical Physics. Dr. Wu has been very active in teaching both graduate students and residents in the past 18 years at Columbia University. He is currently Co-Director of medical physics graduate program. Dr. Wu has served in many capacities in both AAPM and ACR. He is currently a member of Science Council of the AAPM, and a physicist surveyor of Committee on Radiation Oncology Practice Accreditation of the ACR. He is board certified by the American Board of Radiology and is a Fellow of the American College of Radiology. Dr. Wu has published over 45 papers in peer-reviewed journals and proceedings.



### **Di Yan, D.Sc.**

Dr. Di Yan received his D. Sc. in System Science and Applied Mathematics from Washington University, St. Louis in 1990. After serving as a Research Associate at Division of Radiation Oncology, Mallinckrodt Institute of Radiology, Washington University from 1990-1992 he joined the Department of Radiation Oncology, William Beaumont Hospital as Clinical Physics Staff from 1992 to 2002, Associate Director of Clinical Physics from 2002 to 2004, and Director from 2004 to present. He is certified by the ABMP in Radiotherapy Physics. He has been awarded as Principle Investigator on 3 NIH/NCI grants and 2 industrial grants, and Co-investigator on 8 additional federal government and industrial grants. He has been ad hoc member for NIH P01 and R01 grant review. He has authored 74 peer-reviewed papers, 6 invited article and book chapters, and 14 conference proceeding articles.



### **Marco Zaider, Ph.D.**

Dr. Zaider is Head of Brachytherapy Physics at MSKCC and Professor of Physics at Cornell Medical School. He is the author (with H.H. Rossi) of two books, "Microdosimetry and Its Applications" and "Radiation Science for Public Health Workers", numerous book chapters and over 180 articles. Dr. Zaider earned his Ph.D. at Tel Aviv University in experimental nuclear physics. He trained in Medical Physics as a post-doctoral fellow at Los Alamos Laboratory and then joined Columbia University Medical School where he rose in academic ranks to Professor of Clinical Radiation Oncology. Dr. Zaider's interest in microdosimetry was the seed of his research on the biological effects of low (carcinogenic) and high (therapeutic) doses of ionizing radiation. On the teaching side, he was the driving force behind the establishment of the Graduate Program in Medical Physics at CU. Dr. Zaider had numerous advisory assignments for the National Academy of Sciences, AAPM, NASA, ICRP and NCRP.



### **Timothy Zhu, Ph.D.**

Timothy Zhu earned his Ph.D. from Brown University in 1992. After serving as a post-doc fellow in radiation oncology physics at Roger Williams Medical Center, Providence, RI, he joined the Department of Radiation Oncology, University of Florida, Gainesville in 1994 as an assistant Professor. He moved to University of Pennsylvania in 1998 and is currently an associate professor of radiation oncology. Dr. Zhu has served in many capacities in the AAPM. He currently serves as an associate editor in the editorial board of Medical Physics and chairs AAPM Workgroup on Treatment Planning Under Radiation Dosimetry Subcommittee. He is a principal investigator for multiple DOD and NIH funded research projects. He has published over 50 peer-reviewed journal papers. He is the chair of TG74 on in-air output ratio and has served on 4 task groups for the AAPM, most associated with the Therapy Physics Committee.

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## *In Memoriam*



### **John Hale, Ph.D.**

John Hale, AAPM's third president, died in Denver on July 3, 2006. He was born on November 13, 1921 in Wilmette, Illinois where he and his sister were raised. After obtaining his undergraduate degree in Physics at Duke University in 1943, John spent three years in the Navy as a radar officer on the aircraft carrier, Essex. He earned his M.S. and Ph.D. degrees in electrical engineering at the University of Pennsylvania in 1949 and 1957. He was appointed as the University's first Health Physicist 1949-1950. John spent his entire academic career from 1950 to 1987 as Chief Diagnostic Medical Physicist in the Department of Radiology. He rose through the academic ranks to full professor in the School of Medicine

and the College of Engineering and Applied Science in 1967. He became emeritus professor in 1987. Besides teaching many hundreds of residents and engineering students, John supervised 10 graduate students, six of whom earned their doctorate degrees and four of whom earned master degrees under his mentorship.

Not only was John present when the AAPM came into existence, he, along with Ted Webster, wrote its original constitution. John served for five years on the first Board of Directors and became its third president in 1962. He felt that the AAPM should be a scientific as well as a professional society and so it was during John's tenure that the first scientific sessions were introduced into the annual meetings. John chaired or served on many committees not only of the AAPM but of numerous other organizations, as well, including the ACR, RSNA, NCRP and ABR. For seven years John was the American Editor of Physics in Medicine and Biology (1969-1976). For his many services to the Society and contributions to the profession, the AAPM honored John with a 1976 Service Award and with an Achievement in Medical Physics Award in 1998. John was a very modest person who shunned the limelight. He will long be remembered by those fortunate enough to have known him. His friends, former colleagues and students look back with gratitude and fondness for the productive and stimulating times they shared with him.

John is survived by his wife, Adele, two children, Mark and Kim, a stepson, Ethan, and five grandchildren.





## *Achievement in Medical Physics Award*



### **Lawrence Rothenberg, Ph.D.**

Lawrence N. Rothenberg received his Ph.D. in Nuclear Physics from the University of Wisconsin at Madison in 1970. After completing a postdoctoral fellowship in Medical Physics in the Department of Medical Physics at Memorial Sloan-Kettering Cancer Center, he joined the professional staff at MSKCC and rose to the rank of Attending Physicist and Clinical Member. He directed the Diagnostic X-Ray Quality Assurance Laboratory for MSKCC and NY Presbyterian Weill Cornell Medical Center for over 35 years until January 2007 when he was appointed Member Emeritus of MSKCC. At that time he also received an award

from the Department of Radiology at Weill Medical College of Cornell University for "Outstanding Leadership in Education." Larry has been President and Chairman of the Board of the AAPM, President and Secretary of RAMPS, Secretary-Treasurer and Board Member of CAMPEP, and Chairman of the Board of Chancellors of the American College of Medical Physics. He is a Fellow of the the AAPM, the American College of Radiology, the ACMP, and the Health Physics Society. He has chaired the Mammography Committee of the National Council on Radiation Protection and Measurements that produced NCRP Reports No. 85 and 149. He also served on the Board of Directors of the NCRP and is currently an Honorary Member of the Council. He is certified by the American Board of Radiology in Radiological Physics and by the American Board of Medical Physics in Diagnostic Imaging Physics. He has served on the exam committees and as an examiner for both Boards, and as a Board Member of ABMP. He has also served on the Council Steering Committee of the American College of Radiology and as Third Vice President of the Radiological Society of North America. Dr. Rothenberg has concentrated much of his activity in the areas of quality assurance in diagnostic radiology, mammography image quality and dosimetry, computed tomography image quality and dosimetry, and in the education of radiology residents, physics fellows, and radiologic technologists. He has delivered numerous lectures, refresher courses, papers, and monographs on these topics.



### **Marilyn Stovall, Ph.D.**

Marilyn Stovall joined The University of Texas M.D. Anderson Cancer Center in 1951 and has worked there since, except for a two-year leave to work at the International Atomic Energy Agency in Vienna. While at M.D. Anderson, she earned a Ph.D. from The University of Texas Health Science Center. She is currently a Professor in the Department of Radiation Physics and leads the Late Effects Study group, which provides dosimetry data for national and international studies of the long-term effects of radiation therapy. She also directs the Radiation Dosimetry Services group, which routinely checks therapy machine calibrations at more than 800 institutions by means of mailed dosimeters. She has served on

several AAPM committees, on the Board of Directors, was an Associate Editor of Medical Physics for 12 years, and was president of the Southwest Chapter of AAPM. She is an active member of the American College of Medical Physics, the Health Physics Society, and the American College of Epidemiology. She currently serves on the Board of Directors of the Radiation Research Society and as an Associate Editor of the Journal of the Radiation Research Society. Dr. Stovall has published 136 papers in peer reviewed journals and contributed to 7 books and training manuals.



## 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	1990	Peter R. Almond
1973	Robert J. Shalek	1991	Moses A. Greenfield
1974	John S. Laughlin	1992	Nagalingam Suntharalingam
1975	Marvin M.D. Williams	1993	Colin G. Orton
1976	Harold E. Johns	1994	F. H. Attix
1977	Edith E. Quimby	1995	Robert Loevinger
1978	Lawrence H. Lanzl	1996	Leonard Stanton
1979	Herbert M. Parker	1997	James A. Purdy
1980	John R. Cameron	1998	Bengt E. Bjarngard
1981	James G. Kereiakes	1999	Faiz M. Khan
1982	Gail D. Adams	2000	Lowell L. Anderson
1983	Edward W. Webster	2001	Ravinder Nath
1984	Robley D. Evans	2002	Bhudatt R. Paliwal
1985	Jack S. Krohmer	2003	Kenneth R. Hogstrom
1986	Warren K. Sinclair	2004	C. Clifton Ling
1987	Gordon L. Brownell	2005	Gary T. Barnes
1988	John R. Cunningham	2006	Ervin B. Podgorsak
1989	William R. Hendee		

## *AAPM William D. Coolidge Recipient for 2007*



### **Arthur Boyer, Ph.D.**

Dr. Boyer received a Ph.D. in Physics from Rice University in 1971 supported by a scholarship from the M.D. Anderson Cancer Center. After a Postdoctoral Fellowship at M.D. Anderson, Art accepted a position at the Massachusetts General Hospital in the Radiation Oncology Department chaired by Herman Suit, M.D. Art served in the Radiation Oncology Physics Division, directed by Edward Epp, with Michael Goitein, Peter Biggs, Clifton Ling, and Lynn Verhey. In 1978 Art, then an Assistant Professor at the Harvard School of Medicine and an Associate Radiation Biophysicist at the MGH, accepted an invitation from Bob Waggoner and Gary Fullerton to return to Texas as an Assistant Professor at the University of Texas Health Science Center in San Antonio and as Director of Physics in the Cancer Therapy and Research Center where he was ably assisted by Ed Mok. In 1986 Art accepted an Associate Professorship in the Physics Department at M.D. Anderson Cancer Center chaired by Ken Hogstrom. In 1991 Lester Peters, M.D., Chair of the M.D. Anderson Radiation Oncology Division, approved a renewal application of Art's NCI Grant R01 - CA 43840 whose specific aims were to demonstrate IMRT inverse treatment planning, IMRT delivery using a multi-leaf collimator, and EPIDs to verify patient positioning. These concepts were demonstrated by 1995 with key contributions by Thomas Bortfeld working as a Fellow at M.D. Anderson, and Lei Dong for whom Art served as thesis advisor. Art then accepted a tenured full Professorship at Stanford University School of Medicine as Director of the Radiation Physics Division in the Radiation Oncology Department chaired by Richard Hoppe, M.D. The faculty of the Division included Lei Xing, Gary Luxton, Charlie Ma, Todd Pawlicki, David Findley, and Ted Graves. Art served as PI for NCI grant R25 - CA 89178 to develop a web-based tool for Medical Dosimetrist mentors with Scott Kaylor and Doug McCune. Art is certified by the American Board of Radiology and is a Fellow of the AAPM. Art was awarded 10 research grants between 1985 and 2005, authored over 100 scientific papers and 17 book chapters, and edited two books. He has served as an Associate Editor for Medical Physics and as the North American Editor for Physics in Medicine and Biology. Between 1992 and 2007 Art directly supervised or served on the advisory or supervisory committees of 12 M.S. and Ph.D. students, and supervised twelve Post-Doctoral Fellows. Art has served the American Association of Physicists in Medicine as President of the New England Chapter and of the Southwest Chapter, as a member of the Board of Directors, on a variety of committees and on three Task Groups, two as chair, Task Group No. 50 - Multileaf Collimator Dosimetry, and TG 131 under the International Affairs Committee to develop web-based training for medical physicists abroad. In 2005 Art returned to Texas and is currently the Director of the Physics Division of the Radiology Department at Scott & White Memorial Hospital in Temple, Texas and a Professor at Texas A&M University School of Medicine.

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**Congratulations to all of the Award Winners!**

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