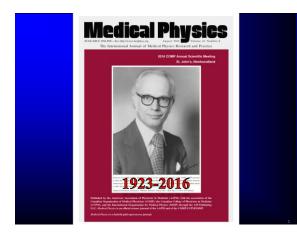
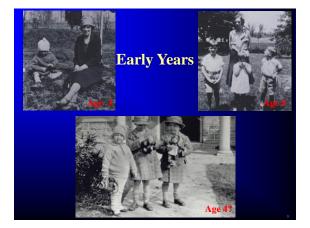
In Memoriam of Bob Gorson: Radiation Programs in Medical Centers Memorial Lecture

Cari Borrás, D.Sc., FACR, FAAPM, FIOMP Radiological Physics and Health Services Adjunct Assistant Professor (Radiology) GWU School of Medicine and Health Sciences

Washington DC, USA

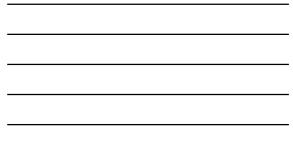






In the Navy 1944-1946: He served as an aviation radar technician and control tower operator on Guam and Kwajalein









stronomy Group 1940

Jan hertening to Trecourse emolecut Bellowie Crosses, it on y the mine like lead. However, it assume guite magnificant today: technologic dame hagenmany to appreciate to the the Phile interest to the the Phile interest (print inferior to the second and two motiones by 1944 Letter





Family Life: Marriage to Lois, 1946

Place October 18 in Doylestown Church Mrs. Paul M. Smith, of 109 Arth street, today announced the marin rage. of her daughter, Miss Lois Smith, and Robert Oven Gorson, of Philadelphia, which tods place Fri-day, October 18, at 5 oclock, in the Deep Run Presbyterina church at Doylestown. The double-ring cere-of the church, the Rey. M. Hoss the church, the Rey. M. M. Hos-strate of the system of the strength the Janateur Astronomers Group of Franklin In-tern of service in the U.S. Navy plantelphia and the Strength of the Strength of the church, the Rey. M. M. Hos-strate of the strength the Janateur Astronomers Group of Franklin In-berger, of Philadelphia, were based an ander and Mrs. Arthur O. Elichel berger, of Philadelphia, were base an and matron of hone. The bride wore a dress of tur-quoise wool, and a half-hat made of the bride wore a dress of tur-quoise wool, and a half-hat made of the state of the mails today. Mrs. Announcements of the wedding were placed in the mails today.

Family Life: Bob and Lois, 1948



Health Physicist at the UPenn (1949) Radiological Physicist (1951-1959) in Radiology with John Hale, Eugene Pendergrass **Radiology** Chair



4

Certifications

- 1954: ABR (Radiological Physics)
- ▲ 1960: ABHP (Health Physics)
- ▲ 1989: ABMP (Diagnostic Imaging)



Thomas Jefferson University (TJU) (1959 – 1989)

Associate Director of the Stein Research Center

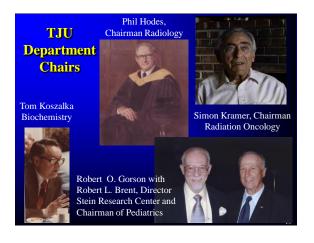
Research

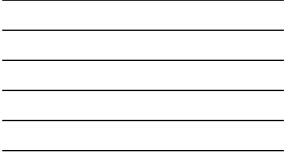
- Dosimetry (Micro Ion Chambers, Film, TLD...)
- Breast Thermography (Jack Wallace)
- Imaging Characteristics of X-Ray Mammography (Ben Galkin)
- Asbestos Hazards











Thomas Jefferson University (TJU)

Associate Prof (1959-1966); Professor of Radiology (1966-1989) & Prof. of Radiation Therapy & Nuclear Medicine (1973-1989)

Chief of the Medical Physics Division (Radiology) & Associate Director of the Stein Research Center (1959-1989)

TEACHING	то
Radiological Physics	Medical students
Radiation Biology	Residents in radiology, radiation oncology and nuclear medicine
Health Physics	Nurses and technologists
	Graduate students and postdoctoral fellows

BOB Gorson's Trainees





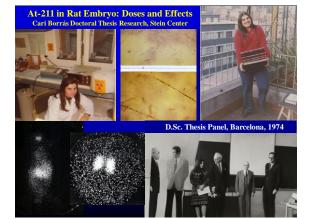


Margit Lassen

N Suntharalingam Fai

Farideh Bagne

In 1973 Dr. Suntharalingam became Director of the Medical Physics Division of the TJU Department of Radiation Oncology







- ▲ Charter Member, 1959
- President, 1969
- ▲ Member, Board of Directors, 1968 1970
- First Chairperson of the AAPM Professional Council, 1971
- First Chairperson of the AAPM History Committee, 1987 - 1993

ABR, ABHP & ABMP Activities

- ▲ American Board of Radiology, Guest Examiner (1957-1960)
- ▲ American Board of Health Physics, Chairman (1965-1966)
- American Board of Health Physics, Examiner (1963-1968)
- ▲ American Board of Medical Physics, Member, Constituting Panel, (1985-1988)
- ▲ American Board Medical Physics Treasurer and Board Member, (1988-1992)

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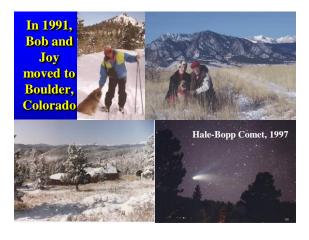


International Commission on Radiation Protection (ICRP) Member (1977-1985): Committee 3 on Medical Uses of Radiation

Annals of the ICRP	Annals of the ICRP	Annals of the ICRP
Protection Against lonizing Rediation from External Sources Used in Medicine	Protection of the Patient in Diagnostic Radiology	Protection of the Patient in Radiation Therapy
Pergamon Press anne warran maanger	Pergemon Press server nor new meanure	Pergamon Press correct recorder - recorder



	▲ ACMP
	▲ ACR
Other	▲ HPS
Professional	▲ NCI
Organization Activities	▲ NRC
	A RSNA
	▲ USPHS
	A



AAPM Videotaping & Interviews

- First AAPM Associate Historian for Videography (1993-2004)
- ▲ Conducted over 120 videotaped interviews of senior medical physicists and other radiological scientists for the Archives of AAPM & AIP (1991-2004)
- ▲ Videotaped most of the AAPM Honors & Awards Ceremonies & many tributes & scientific sessions & symposia for the AAPM Archives (1982-2007)

At the 1990 RSNA Meeting



Bernhard Cohen, Bill Hendee, C. Clifton Ling, Azam Niroomand-Rad, Colin G. Orton, Martin Weinhous
Michael Gillin, Michael Gillin, Robert Gould, Hélène Langevin-Joliet, Hélène Langevin-Joliet, Edward Nickoloff, Edward Nickoloff, Perry Sprawls, Sal Trofi, Jr., Sal Trofi, Jr.
Peter Bloch, Peter Bloch, <u>Listher Brady</u> , Charles W. Coffey, Stephen Feig, M.D., Stephen Feig, M.D., James Galvin, James Galvin, Morton Kligerman, M.D., James B. Smathers, Raymond Wu, Raymond Wu
Jerome G. Dare, Jerome G. Dare, Kenneth R. Hogstrom, Kenneth R. Hogstrom, Geoffrey Ibbott, Geoffrey Ibbott, Ravinder Nath
Caridad Borras, Paul DeLuca, Arthur Haus, Donald D. Tolbert
Amos Norman, Guy H. Simmons, Stephen Thomas
Stephen Balter, Donald Herbert, Basil Hilaris, M.D., Jack Krohmer, Mary Louise Meurk, Will Roger Ney, Will Roger Ney, Alfred R. Smith, Jean St. Germain, Rosalyn S. Yalow, Rosalyn S. Yalow
Stephen Balter, Robert Dixon, Kenneth Kase, Faiz Khan, Edwin McCullough, Edwin McCullough, Charles Meinhold, Richard Morin, Budatt Paliwal
Gary Barnes, Paul Carson, Joel E. Gray, Thomas Payne, Robert J. Schulz, John Villforth
Heinz Barshall, Luther Brady, Robert L. Brent,M.D., Gordon Brownell, John R. Cameror, Paul Goodwin, Ronald Kathren, Ronald Kathren, William Koch, Charles Lescrenier, James Purdy, Melvin Siedband, Lauriston Taylor, Lauriston Taylor, Ralph Worsnop
Bengt Bjarngard, Victor Bond, M.D., Stewart Bushong, Gary Fullerton, Benjamin Galkin, Charles Kelsey, Simon Kramer M.D. Raiph Lapp, Otha Linton, Arthur Lucas, Carl Manefold, M.D., Lawrence Rothenberg, Eugene L. Saenger, Joe Sayeg, Ned Stemick, Lauriston Taylor, Shirley Vicklers', S. Reid Warrer Jr.+, Handl Wyckoff, Rosayin S Valow
Peter Almond, John Cunningham, Juan dei Regato, Frank Ellis, Jack Fowler, Hy Glasser, Paul Hodges, M.D., Donald Kerst, John Lenihan, Robert Loevinger, Charles A. Mistretta, Fearghus O'Foghluda, Colin G. Orton, Baine Osterman, Lester Slagge, Leonard Stanton, N. Suntharalingman, Michel Ter-Argossian, Robert Waggener
Herb Attix, Norman Baily, George Callendine, John R. Cameron, John R. Cameron, John R. Cameron, Arnold Feldman, Arnold Feldman, Ted Fields, Robert O. Gorson, Robert O. Gorson, Moses Greenfield, Bill Hendee, C.J. Karzmark, Jack Krohmer, Craig Nunan, Robert Shalek, Warren Sinclair, Ray Tanner, Edward Webster, Peter Wootton, Ann Wright, Knnntch Wright
Gail Adams, John Hale, James Kereiakes, Larry Lanzl, Larry Lanzl, Larry Lanzl, John Laughlin, John Laughlin,



Videographing Medical Physicists









▲ Fellow of the ACR (1965)

- ▲ Fellow of the AAPM (1989)
- ▲ Fellow of the ACMP (1990)
- ▲ Delaware Valley Society for Radiation Safety Meritorious Service Award (1985)
- AAPM Marvin M.D. Williams Professional Achievement Award (1993)
- ▲ Failla Memorial Lecturer, NY Radiological & Medical Physics Society (1993)
- ▲ AAPM Award for Achievement in Medical Physics (1997)







Bob's 90th Birthday Celebration with Friends and Colleagues

Back row, left to right: Dennis Leeper, Mardys Leeper, Margaret Strubler, Shirley Vickers, Ken Strubler, Sally Mansfield, Carl Mansfield, Siva Suntharalingam, Nagalingam Suntharalingam, Lillian Brent, Robert Brent. Front row, left to right: Cari Borrás, Joy Gorson, Robert Gorson.



BOB's Legacy

Robert O, Gorson worked all his life in radiation safety in medicine, especially regarding patient protection in radiology. Many of his ideas were incorporated into USA FDA regulations on medical x ray equipment and were adopted by many other countries through the International Basic Safety Standards (IBSS), the radiation safety standards elaborated by several international organizations such as the World Health Organization, the International Labour Office and the International Atomic Energy Agency (IAEA), which publishes them. These Standards are adapted/adopted worldwide as radiation control regulations.

BOB's Influence on Radiation Protection Regulations - Worldwide

- ▲ NCRP Reports → X-Ray FDA Standards
- ▲ ICRP Reports → International Organizations' Radiation Safety Standards (IBSS)
- ▲ International BSS → Country's (national or regional) Radiation Protection & Safety Regulations



BOB's Legacy re DRLs

In 1992, Bob chaired the Medical Exposure Working Group of the Technical Committee Meeting to endorse the Standards that was held in Vienna, at the IAEA HQ. The 1996 BSS stated that in medical imaging it is important to review not just high medical exposures but also the ones that are very low, as they may not yield the expected diagnostic information. The International Commission on Radiological Protection in their 2007 Recommendations incorporated this criterion when reviewing compliance with diagnostic reference levels (DRLs). So did the 2014 BSS and recently the ACR!



