

**World Congress on Medical Physics
& Biomedical Engineering**

June 3-8, 2018, Prague, Czech Republic, www.iupesm2018.org



Outstanding Female Medical Physicists within the American Association of Physicists in Medicine

Melissa C. Martin, M.S., FAAPM, FACR
President - AAPM - 2017
Therapy Physics Inc. - Signal Hill, CA USA
Melissa@TherapyPhysics.com

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Financial Disclosures

- ▶ AAPM Support for Travel Expenses to this meeting
- ▶ No other Financial Disclosures



AAPM Founding Members - 1958

- ▶ Founding Members: 133
- ▶ Female Founding Members: 20
- ▶ Percentage of Female Founding Members:
15 %



AAPM Members & Committees

AAPM Has...

- 8,900 members (average age: 47) in 95 Countries
- 5,950 Full Members (average age: 47)
- 29.5 staff at Headquarters in Alexandria, VA
- 290 committees with 1550 committee members

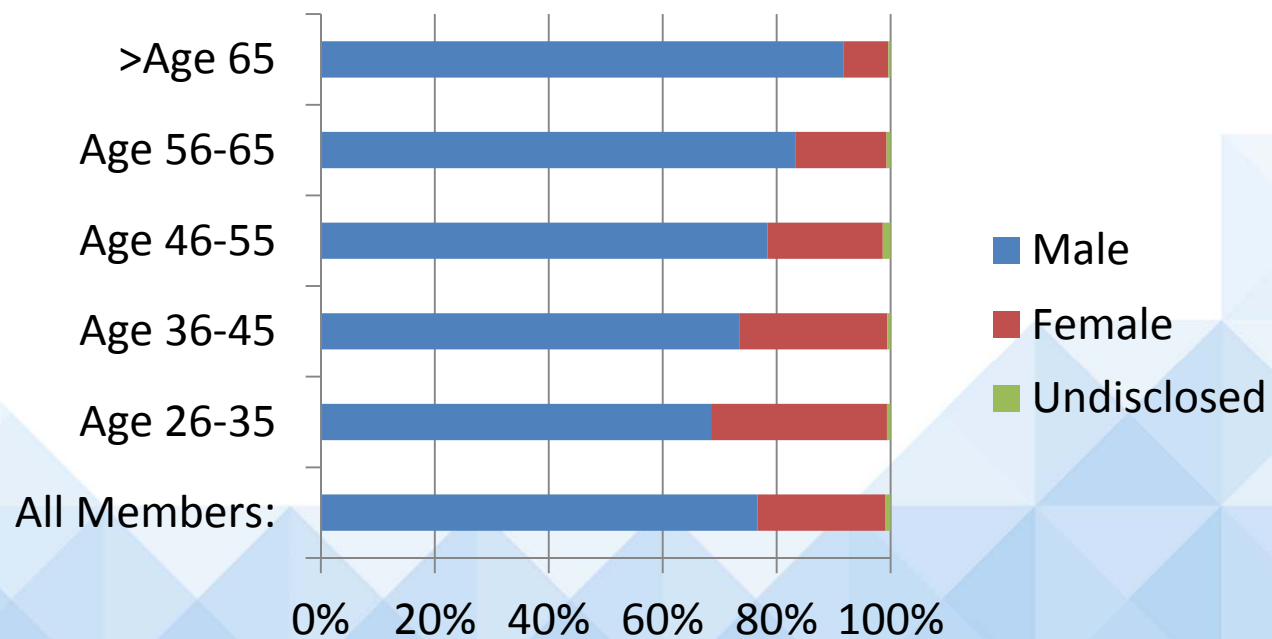
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IUPESM
PRAGUE 2018

AAPM's Membership - by Gender





William D. Coolidge Award Winners

- First Awarded in 1972
- AAPM's Highest Award for an Eminent Career in Medical Physics
- Two Female Awardees to date:
 - Edith H. Quimby - 1977
 - Maryellen Giger - 2015



Marvin M.D. Williams Professional Achievement Award Winners

- First Awarded in 1989
- Eminent Career in Medical Physics with Emphasis on Clinical Medical Physics
- Four Female Awardees to Date:
 - Ann E. Wright - 1991
 - Melissa C. Martin - 2009
 - Marilyn Stovall - 2013
 - Jean St. Germain - 2015



Edith H. Quimby Lifetime Achievement Award Winners

- ▶ First Awarded in 1996
- ▶ Notable Career based on Outstanding Achievements
- ▶ Four Female Awardees to Date:
 - ▶ Mary L. Meurk - 2000
 - ▶ Marilyn Stovall - 2007
 - ▶ Caridad Borrás - 2013
 - ▶ Melissa C. Martin - 2015



Presidents of the AAPM

- First President - 1958 (60 Year Anniversary - 2018)
- Four Female Awardees to Date:
 - Ann E. Wright - 1982
 - Mary K. Martel - 2007
 - Maryellen L. Giger - 2009
 - Melissa C. Martin - 2017
 - Cynthia McCullough - 2019

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**Career Achievements
of
AAPM Female
Physicists**

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Edith H. Quimby

- ▶ Developed techniques for use of radioactive materials to diagnose and treat cancer
- ▶ 40 years as researcher at Memorial Hospital - New York City
- ▶ Began work in 1919 to develop precise dosage for patients with fewest side effects
- ▶ Work with radium earned her the Janeway Medal of the American Radium Society in 1940 - first woman to receive the medal





Rosalyn S. Yalow

- ▶ Trained under Edith Quimby
- ▶ Developed the Radioisotope Service at the Bronx Veterans Administration Hospital, New York City
- ▶ Research led to development of the RIA (Radioimmunoassay) techniques to track insulin in the blood and other hormone levels
- ▶ Awarded Nobel Prize in Physiology or Medicine - 1977
- ▶ Other Awards: Eli Lilly Award of the American Diabetes Association, 5 Honorary Doctorates



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Ann E. Wright

- Initially worked at Shell Oil Company in Computer Programming
- Studied at the University of Houston
- Worked and Trained at MD Anderson Cancer Center with Marilyn Stoval and Bob Shalek in Medical Physics
- First Female Officer of the AAPM - Treasurer (1974-76)
- First Female President of the AAPM - 1982



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Mary K. Martel

- ▶ Department Chair - MD Anderson Cancer Center, Houston, TX
- ▶ Research Interests: Radiation Dose-Response Studies, Outcome Analysis, Biological Modeling
- ▶ President of the AAPM - 2007
- ▶ Active in Women Faculty Professional Development
- ▶ Member of the Medical Physics Residency Steering Committee - MD Anderson (Univ. of Texas)



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Maryellen L. Giger

- ▶ A. N. Pritzker Professor of Radiology - University of Chicago and Vice-Chair for Basic Science Research and Director of Imaging Research Institute
- ▶ Pioneer in the Development of CAD (Computer Aided Diagnosis), 25 Patents and Senior Reviewer of Research Grants for the NIH
- ▶ William D. Coolidge Award Winner - 2015
- ▶ AAPM President - 2009, Treasurer 2004-2007



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Marilyn Stovall

- ▶ Expert in Radiation Dosimetry for Epidemiologic Studies and Radiation Dose Reconstruction Methods
- ▶ MD Anderson Cancer Center - Radiation Dosimetry Services
- ▶ Monitored Radiation Dosimetry for Clinical Trials throughout the US
- ▶ Edith Quimby Award - 2007
- ▶ Marvin MD Williams Award-2013



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Caridad Borrás

- ▶ Chair of the AAPM International Educational Activities Committee
- ▶ International Research and Training Coordination Subcommittee
- ▶ Working Group on Response to Radiation Incidents
- ▶ Radiation Safety and Radiation Protection Committees
- ▶ Edith Quimby Award - 2013



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Jean St. Germain

- ▶ Radiation Safety Officer and Vice-Chairman for Clinical and Education Affairs for Memorial Sloan-Kettering Medical Center, New York City
- ▶ Graduate of Rutgers University, Certified by the American Board of Health Physics and American Board of Medical Physics
- ▶ Expert on Radiation Protection of Pregnant Women and Iodine-125 seed usage
- ▶ AAPM Secretary: 1985-87



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Melissa C. Martin

- ▶ President of Consulting Medical Physics Service based in Southern California for 25 years - Diagnostic and Therapy Physics
- ▶ Expertise in Shielding Design for Therapy Vaults, Proton Centers, and Diagnostic Imaging Centers
- ▶ IOMP Liaison from AAPM - 2013-18
- ▶ AAPM Treasurer - 1998-2003, President - 2017
- ▶ Marvin MD Williams Award -2009, Edith Quimby Award - 2015



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Current and Future Female Leaders in the AAPM



Jean Moran -
Chair of
Therapy
Physics
Committee



Kalpana
Kanal -
First ABR
Female
Trustee



Cynthia
McCullough -
President -
2019

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Current and Future Leaders of the AAPM



Kristy Brock -
Therapy Physics
Program Chair -
Annual Meeting



Carri Glide-Hurst
- Strategic
Planning
Committee



Jessica Clements - AAPM
Newsletter Editor, ABR Oral
Examiner, Clinical Practice
Committee

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Projects of the AAPM to Develop Diversity

- ▶ Newly created Diversity Committee with defined goals
- ▶ New Code of Ethics covering behaviour of all participants in all AAPM Meetings - No Discrimination or Offensive Behaviour
- ▶ Very active Women's Professional Committee
- ▶ Women's Luncheon at the AAPM Annual Meeting
- ▶ Mentorship Program under development by Leadership Committee

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**Thank You for the Opportunity to
Participate in this World Congress**