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## 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

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#### **AAPM Founding Members - 1958**

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

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#### **AAPM Members & Committees**

#### AAPM Has...

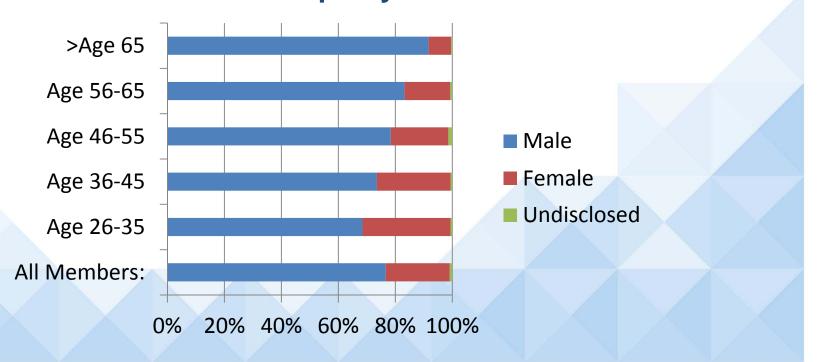
- -8,900 members (average age: 47) in 95 Countries
- •5,950 Full Members (average age: 47)
- •29.5 staff at Headquarters in Alexandria, VA
- •290 committees with 1550 committee members

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#### **AAPM's Membership - by Gender**



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#### 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

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#### 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

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#### **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 Borras 2013
  - Melissa C. Martin 2015

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#### **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



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#### 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



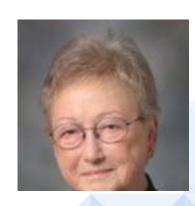
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#### **Marilyn Stovall**

- 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 Borras**

- Chair of the AAPM International Educational Activities Committee
- International Research and Training
   Coordination Subcommittee
- Working Group on Response to Radiation Incidents
- Radiation Safety and RadiationProtection 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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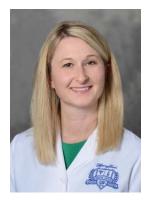




#### **Current and Future Leaders of the AAPM**



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