



## *International Commission on Radiation Units and Measurements, Inc.*

February 18, 2019

### **Dr. Eleanor Blakely Received 20<sup>th</sup> Gray Medal**



The ICRU is pleased to announce that the Twentieth Gray Medal was presented to Dr. Eleanor Blakely at the 16<sup>th</sup> International Congress of Radiation Research in Manchester, UK, in August 2019.

Dr. Blakely was born in Quantico, VA, and attended the University of San Diego, San Diego, CA where she received a B.A. degree in Biology. She completed a M.S. degree in Biophysics, and a Ph.D. in Physiology at the University of Illinois, Champaign-Urbana, IL as a U.S. Atomic Energy Commission Special Fellow in Radiation Science and Protection in the laboratory of Professor Howard Ducoff. She participated in radiobiology training at three U.S. Department of Energy (DOE) Laboratories: Oak Ridge National Laboratory, Knoxville, TN with Dr. Frank Comas, Lawrence Berkeley Laboratory (LBL), Berkeley, CA with Dr. John Leith in the laboratory of Professor Cornelius Tobias, and Argonne National Laboratory, Lemont, IL with Dr. Warren Sinclair.

Upon graduation, Dr. Blakely returned to LBL as a Staff Scientist working directly with Professor Cornelius Tobias and with Drs. Joseph Castro and Theodore Phillips conducting pre-clinical investigations, and Phase I/II trials with heavy charged particle radiotherapy. Since 1989, Dr. Blakely has been a Senior Staff Biophysicist at the Lawrence Berkeley National Laboratory (LBNL) with more than 40 y of professional experience in molecular, cellular and animal radiobiological research directed at studying the basic mechanisms of radiation responses, with an emphasis on charged particle radiation effects. She also holds a Faculty Affiliate Appointment in the Department of Radiological Health Sciences at Colorado State University, Fort Collins, CO and is a Clinical Professor of Radiation Medicine (nontenured) at Loma Linda University, School of Medicine, Loma Linda, CA. She has published over 100 peer-reviewed papers and several book chapters.

Her professional activities included service on a variety of advisory panels for several hospitals, universities, and numerous federal agencies including the U.S. Department of Energy, the National Institutes of Health (NIH), National Aeronautics and Space Administration (NASA) and the Department of Defense (DOD). She is an Appointed Member for the Diagnostic Radiology Study Section-Division of Research Grants, NIH; Advisory Committee Member for the International Atomic Energy Agency (IAEA); She was elected as the councilor representing the Biology discipline (1984-1987) and the Secretary-Treasurer for the Radiation Research Society (RRS) (2011-2017). She continues to serve on Editorial Boards for several journals: Radiation Research, Journal of Radiation Research and npj Microgravity.

She has a long-standing relationship with NCRP. In 2000 she was elected to NCRP and served on Scientific Committee (SC) 75 that produced NCRP Report No. 132, Radiation Protection Guidance for Activities in Low-Earth Orbit; and SC 1-7 that produced NCRP Report No. 153, Information Needed to Make Radiation Protection Recommendations for Space Missions Beyond Low-Earth Orbit. In 2011, she was named the NCRP 35th Lauriston S. Taylor Lecturer. Dr. Blakely co-chaired NCRP SC 1-23 that produced NCRP Commentary No. 26, *Guidance on Radiation Dose Limits for the Lens of the Eye* (2016).

In addition to being an outstanding scientist, she has received number awards in teaching and mentoring young scientists including the Robert Emerson Graduate Teaching Award, School of Life Sciences, University of Illinois, the LBL Outstanding Performance Award, the DOE Office of Science Outstanding Mentor Award, and the LBL Technology Transfer Award. She was appointed the Scientific Director of the NASA Space Research Summer School for two consecutive years (2007-2008), and received an RD100 award from Research and Development Magazine (2005). She was awarded the Martin Schneider Memorial Lectureship, University of Texas Medical Branch, Galveston, Texas. In June 2015 she retired after 40 years at LBNL, but was rehired by LBNL in October 2015, and continues to work part-time. Dr. Blakely received the Berkeley Laboratory Director's Award for Exceptional Achievement: the Berkeley Lab Citation Award (2015), was named a Fellow of the American Association for the Advancement of Science (2016), received the Distinguished Service Award of the RRS (2017), and was named a Distinguished Emeritus Member of the NCRP (2018).