

ICRS-13 & RPSD-2016

13th *International Conference on Radiation Shielding*
&
19th *Topical Meeting of the Radiation Protection & Shielding Division*
of the *American Nuclear Society -2016*

3rd Plenary invited talk:

Secondary Neutrons from Proton Radiation Therapy”

Dr. Rebecca M. Howell

University of Texas, USA



The author will present an overview of secondary neutrons in proton therapy. In particular, she will discuss the wide variability of data in the literature and focusing on the variability in measurement techniques used in different studies. Additionally the presentation will compare the secondary neutrons encountered in scanning beam and passive scatter proton therapy and high energy photon therapy.

Rebecca M. Howell, PhD, is a tenured Associate Professor at The University of Texas MD Anderson Cancer Center. Dr. Howell was elected Fellow of the American Association of Physicists in Medicine (AAPM) last year. She received her MS (2001) and PhD (2005) from the University of Texas Health Science Center San Antonio. Dr. Howell is certified by the American Board of Radiology and has 15 years of clinical experience. She has published 50 peer-reviewed papers and is Principal and Co-investigator on several funded research grants from the National Cancer Institute and other funding agencies. Her research focuses on out-of-field dose and late effects of radiation therapy.