



# **THE 2021 AAPM VIRTUAL 63RD ANNUAL MEETING, JULY 25 - 29**

**SESSION TITLE: MEDICAL PHYSICS WORKFORCE UPDATE**

**SESSION ORGANIZER: ERLI CHEN**

**MODERATOR:**

**WAYNE NEWHAUSER, ERLI CHEN AND MICHAEL D. MILLS**

**INVITED SPEAKERS IN ORDER OF PRESENTATION:**

**WAYNE NEWHAUSER, ERLI CHEN AND DUSTIN GRESS**



## **LEARNING OBJECTIVES:**

- **Describe the General Characteristics of the medical physics profession**
- **Understand current state of the Diagnostic and Therapy Physicist Workforce**
- **Review Current and Future Issues in the Supply Pathways for Diagnostic and Therapy Physicists**
- **Discuss Projections of Demand and Supply for Diagnostic and Therapy Physicists**
- **Summarize major challenges, opportunities, strategies and tactics to maintain an Adequate and Well-Trained Medical Physics Workforce**



## FIRST TOPIC: THE MEDICAL PHYSICS WORKFORCE IN THE UNITED STATES



**Wayne Newhauser**  
**PhD, DABR,**  
**FAAPM, FAAAS**  
**Tenured Professor**

Obtained BS degree in Nuclear Engineering, MS degree in Health Physics, and PhD degree in Medical Physics. Expert in Proton therapy, SRS and SBRT. Had appointments at Germany's national standards laboratory, Massachusetts General Hospital (Boston), Harvard Medical School (Cambridge) and University of Texas MD Anderson Cancer Center (Houston). Since 2011 work at Louisiana State University and Mary Bird Perkins Cancer Center (Baton Rouge). Has leadership roles in many major research projects with the American Nuclear Society, the Health Physics Society, the National Council on Radiation Protection and Measurements (NCRP) and the Society of Directors of Academic Medical Physics Programs. Published over 125 peer-reviewed scientific research papers. Chair of Medical Physics, director of medical Physics graduate program and advised more than 50 trainees



## SECOND TOPIC: A SPECIAL REPORT OF THE 2020 AAPM THERAPY PHYSICIST WORKFORCE SURVEY RESULTS

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**Erli Chen  
MS, DABR,  
FAAPM**

Obtained MS degree in Medical Physics. Has over 30 years' clinical experience served as Radiation Safety Officer and radiation therapy QMP in 5 states. Director of Central Care Cancer Center from 1999 to 2001. Since 2001, working at Cheshire Medical Center as RSO and solo QMP. Has leadership roles in many workforce study committees in AAPM and ASTRO. Has worked on many workforce studies since 2009. Served as Chair of AAPM Workforce Assessment Committee, AAPM Therapy Workforce Subcommittee and ASTRO Workforce Subcommittee. Published over 20 peer review, clinical application and research papers.



## **THIRD TOPIC: A SPECIAL REPORT OF THE 2020 AAPM DIAGNOSTIC PHYSICIST WORKFORCE SURVEY RESULTS**



**Dustin A. Gress  
MS, DABR,  
DABSNM**

**Obtained BS and MS degrees in Nuclear Engineering and Radiological Sciences from the University of Michigan. Worked as a diagnostic medical physicist at Upstate Medical Physics for over 7 years and served as Associate Director of the first CAMPEP-accredited private practice residency program in imaging physics. Worked 6.5 years at MD Anderson Cancer Center as a diagnostic QMP and served as a Clinical Coordinator in MD Anderson's Imaging Physics Residency Program and instructed in its Graduate School of Biomedical Sciences' Medical Physics Program. Since 2018 work as Senior Advisor for Medical Physics at the American College of Radiology. Chair of the AAPM diagnostic workforce subcommittee.**