

Panel: "Health Physicists Unite: Building Capacity for Our Radiation Protection Future"

Thoughts from NCRP on the Radiation Sciences Workforce

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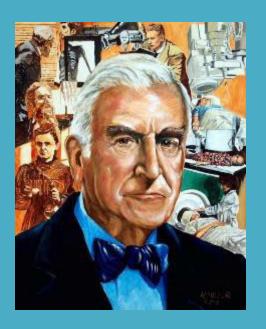
NCRP – A Council of 100 Radiation Professionals



1929: U.S. Advisory
Committee on X-Ray and
Radium Protection

1946: U.S. National Committee on Radiation Protection

1964: National Council on Radiation Protection and Measurements chartered by Congress (Public Law 88-376)





What is the NCRP?



To support radiation protection by providing independent scientific analysis, information, and recommendations that represent the consensus of leading scientists.

- Although chartered by Congress, has never received direct funding from Congress
- 501 (c) (3) Corporation (non-government, non-profit)



NCRP Council Members

- Selected for their scientific expertise
- Elected to six-year terms
- Unpaid volunteers (100s of hours/year)
- Serve on many of the Scientific Committees and PACs
- Review documents produced by NCRP



Meeting of SC 4-9



Council Membership Areas of Expertise

Cancer Biology

Dentistry

Diagnostic Radiology

Dose Reconstruction

Dosimetry

Education

Emergency Response

Environment

Epidemiology

Ethics

Genetics & Epigenetics

Health Physics

Interventional Cardiology

Interventional Radiology

Nuclear Engineering

Medical Physics

Molecular Biology

Nonionizing Radiation

Nuclear Medicine

Nuclear Power

Occupational Medicine

Physics

Public Health

Radiation Measurement

Radiation Oncology

Radioactive Waste Management

Radiobiology

Radiological Terrorism

Radiochemistry

Regulatory

Risk Analysis

Risk Assessment

Risk Communication

Safety Analysis

Statistics

Teratology

Toxicology

Training

Ultrasound



Broad range of radiation sciences expertise underpins Health Physics



WARP



National Council on Radiation Protection and Measureme

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Where Are the Radiation Professionals (WARP)?

Synopsis of NCRP Statement No. 12

January 23, 2015

Background: Since the discovery of x rays and radioactivity in the late 1800s, sources of ionizing radiation have been employed in medicine, academia, industry, power generation, and national defense. To provide for the safe and beneficial use of these sources of radiation, the United States developed a cadre of professionals with the requisite education and experience. Unfortunately, their numbers have diminished alarmingly, as assessed by the National Research Council, the Health Physics Society, and the Government Accountability Office.

Methods: To study the decline in radiation professionals and potential national crisis, the National Council on Radiation Protection and Measurements (NCRP) sponsored a workshop in June 2013 in Arlington, Virginia to evaluate whether a sufficient number of radiation professionals exist now and into the future to support the various radiation disciplines essential to meet national needs. Attendance at this workshop included professionals from government, industry, academia, medicine, and professional societies.



CC 2: Meeting the Needs of the Nation for Radiation Protection – WARP

- <u>Scope:</u> to continually assess, revise and renew the comprehensive plan initiated with WARP to replenish the nations' dwindling number of radiation professionals in all areas: government, medicine, private sector, industry, biology, epidemiology, emergency response, risk modeling and assessment, regulations, environmental remediation, military, and associated fields.
- Specific activity: development of a Commentary on Guidance on the Professional Radiation
 Workforce.





W.D. Newhauser (Med Phys), Co-Chair J.P. Williams (Rad Bio), Co-Chair

Preparing Commentary
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Lawrence Townsend (N Engr)
Lydia Zablotska (Epi)



CC 2: Meeting the Needs of the Nation for Radiation Protection – WARP

- New Challenge: Increase Diversity, Inclusion, Equity
- Some Approaches: (from IRPA session in February 2022)
 - Increasing awareness of need for diversity
 - Seeking participation of younger, more diverse individuals
 - Building a pipeline
- Need more innovative approaches



THANK YOU!

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