<table>
<thead>
<tr>
<th>CAMPEP Expectations of Physicists</th>
</tr>
</thead>
<tbody>
<tr>
<td>William R. Hendee, PhD</td>
</tr>
<tr>
<td>Distinguished Professor</td>
</tr>
<tr>
<td>Radiology, Radiation Oncology,</td>
</tr>
<tr>
<td>Biophysics, Population Health</td>
</tr>
<tr>
<td>Medical College of Wisconsin</td>
</tr>
<tr>
<td>Professor of Biomedical Engineering</td>
</tr>
<tr>
<td>Marquette University</td>
</tr>
<tr>
<td>Adjunct Professor</td>
</tr>
<tr>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>University of Wisconsin-Milwaukee</td>
</tr>
<tr>
<td>Adjunct Professor of Radiology</td>
</tr>
<tr>
<td>University of New Mexico</td>
</tr>
<tr>
<td>Adjunct Professor of Radiology</td>
</tr>
<tr>
<td>University of Colorado</td>
</tr>
</tbody>
</table>
Entrance Requirements for Medical Physics Graduate Students

- Undergraduate degree in physics or
- Undergraduate degree in related field with course work equivalent to physics minor (3 adv courses)
- Students with deficiencies may be admitted conditionally
  Deficiencies must be remedied during graduate program

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Graduate Curriculum Should be Consistent with AAPM Report 197

“Academic Program Recommendations for Graduate Degrees in Medical Physics”
Options for Clinical Residency Training

- Primary site
  - Accredited 2 year residency
  - Complete range of treatment techniques
  - Many qualified medical physicists (QMP)

- Affiliated site
  - Formal 2 year residency
  - More limited resources
  - Affiliated with a CAMPEP accredited program

- Professional degree program
  - 2-year residency as part of 4-5 year curriculum

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Residency Curriculum Should be Consistent with AAPM Report Number 90

- "Essentials and Guidelines for Hospital-Based Medical Physics Residency Training Programs"
Entrance Requirements for Medical Physics Residency

- Graduation from an accredited MP graduate program or
- Graduation from a physics or related graduate program
  MP deficiencies corrected during residency
  Mechanism for correction provided by residency
  Mechanism for evaluation of correction provided by residency
- Completion of didactic portion of professional degree program

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2012 Initiative

- Candidates taking the American Board of Radiology Part 1 examination in radiologic physics for the first time in 2012 or later must be enrolled in or have graduated from a CAMPEP-accredited education program (e.g., MS, PhD, or residency).

If a candidate has graduated from a CAMPEP-accredited education program at the time of application, he/she must be working as a medical physicist (ABR website).
2014 Initiative

- Candidates taking Part 1 for the first time in 2014 or later must have completed a CAMPEP-accredited residency program before being eligible to take the Part 2 examination in Radiologic Physics (ABR website)
Eligibility Requirements

- The new eligibility requirements for Part 1 and Part 2 will not be applied retroactively to candidates in the ABR certification process prior to the dates specified.

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Eligibility Requirements

- Applications for certification must be submitted by September 30 of the year before the first examination.
ABR Part 1 Exam Requirements

- Undergraduate degree in physics from accredited institution or
- Undergraduate degree in related field with course work equivalent to physics minor
  General physics with calculus
  At least 3 upper division physics courses
- Master’s or doctorate degree
  Medical physics, physics or related science/engineering discipline
- Working as MP under supervision
NRC Recognition of Deemed Status

- Diagnostic Radiologic Physics (DRP) and Medical Nuclear Physics (MNP) under 10 CFR § - Training for Radiation Safety Officer (RSO), and

- Therapeutic Radiologic Physics (TRP) under 10 CFR § 35.51 - Training for an Authorized Medical Physicist (AMP)
Statistics to be Presented

- Recent application numbers
- Candidates for each exam per year
- Passing rates
  - Written
  - Oral
- Failure rates vs. program accreditation
- Number of new ABR RP certificates awarded per year
### Recent Application Numbers (new per year)

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010 (prelim)</th>
<th>Percent increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1</td>
<td>340</td>
<td>415</td>
<td>527</td>
<td>+ 55%</td>
</tr>
<tr>
<td>Part 2</td>
<td>290</td>
<td>320</td>
<td>303</td>
<td>- - -</td>
</tr>
</tbody>
</table>

Jan 2010
Written Exam Pass Rates (%)

- Clinical (83%)
- General (79%)
- Therapy (72%)
- Diagnostic (68%)
- Nuclear (54%)

(% = 6 year ave)

Jan 2010
Oral Exam Pass Rates (%)

- All Takers (55%)
- 1st Time Takers (59%)
- Conditioned (15%)

(% = 6 year ave)

Jan 2010
## Failure Rates: non-CAMPEP vs. CAMPEP
### 2003 - 2009

<table>
<thead>
<tr>
<th></th>
<th>Non-CAMPEP</th>
<th>CAMPEP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1</td>
<td>13.3%</td>
<td>11.1%</td>
</tr>
<tr>
<td>Part 2</td>
<td>20.7%</td>
<td>10.8%</td>
</tr>
<tr>
<td>Oral</td>
<td>28.4%</td>
<td>25.1%</td>
</tr>
</tbody>
</table>

Jan 2010
ABR RP Diplomates per Year (New Certificates)

Jan 2010
2010 ABR Applications: Part I

428 applications received
287 applications approved
Remainder in appeal

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2010 ABR Applications: Part II or Part I/II

328 applications received
286 applications approved
Remainder in appeal