Radiation Protection Technology

Wade Miller RRPT, AAHP(A)
Sr. HP, Savannah River Nuclear Solutions
Program Coordinator – Radiation Protection Technology
ATC Nuclear Present

- **2008**: Certificate in Radiological Control
- **2008 - 2009**: Established “Fast-Track” program in cooperation with Savannah River Nuclear Solutions (SRNS)
- **2009**: Associate of Applied Science: Major in Radiation Protection Technology
- **Fall - 2010**: NEI-NUCP Curriculum Starts
ATC Nuclear Engagement & Support

2007
$200,000 donation from URS-Washington Group

2010
$53,000 and $150,000 NRC Grants

2008
Member of University of Missouri curriculum consortium

2009
SRS Community Reuse Organization
srscro.org

2009
Registered with NEI and $95,000 NRC Grant for scholarships
### Industry Partnerships/Support

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<tr>
<th>Company</th>
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<tbody>
<tr>
<td>SCANA / VC Summer</td>
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<tr>
<td>SRNS / SRNL / SRR</td>
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<tr>
<td>URS / Washington Group</td>
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<tr>
<td>Bartlett Services, Inc. / Unitech</td>
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<td>Value Added Solutions / Frham</td>
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<td>Canberra / Mirion Technologies</td>
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Advisory Committee Support

Members from local industry and higher education

- Savannah River Site – SRNS/SRR
- VC Summer (SCANA)
- Plant Vogtle (Southern Company)
- Bartlett Services, Inc.
- Shaw-Areva/MOX
- Parsons
- Medical College of Georgia
- Eisenhower Army Medical Center/Ft. Gordon
- Francis Marion University, Florence, SC
- University of South Carolina, Columbia, SC
- South Carolina State University, Orangeburg, SC
Full Time Faculty

David Deal
RRPT, MACE
Academic Coordinator

US Navy - Nuclear (9 years)
- Fast attack Sub - Lead ELT
- Staff Instructor at NPTU

Ballston Spa, NY - Engineering Watch Supervisor (D1G)

Commercial Nuclear (22 years)
- Entergy
- RP Technician
- RP Supervisor
- ALARA Supervisor
- RP Superintendent
- RP Trainer
- Supervisor Trainer

Wade Miller
RRPT, AAHP (A)
Program Coordinator

Charleston NSYD, RCT/NEIT (3 yrs)
- NAVSEA 108
- Rad Waste Processing

FermiLab, RCT II & ARSO (7 ½ yrs)
- D&D Project Lead
- Fixed Target Ops, Rad Training

Pantex, HP (4 ½ yrs)
- non-MAA Ops, RGDs, Pit Repackaging

Los Alamos National Lab, HP (3 yrs)
- RGDs, Plutonium Facility ALARA

Savannah River Site, Sr. HP (3+ yrs)
Sr. Hp, SNM reprocessing facility
<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Experience</th>
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<tbody>
<tr>
<td>Henry Bolen, RRPT</td>
<td>SRNS, K-Area ES&amp;H Mgr</td>
<td>21 years - DOE</td>
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<tr>
<td>Greg Cefus, MS</td>
<td>SRNL, Office of Global Radiological Threat Reduction</td>
<td>10 years - DOE, 12 years - SRNL</td>
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<tr>
<td>Michelle Holman, MS</td>
<td>Sr. HP, SRNS</td>
<td>2 years training reactor, 1 year commercial nuclear, 4 years - DOE</td>
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<tr>
<td>Bill Ferguson, RRPT</td>
<td>Principal HP, SRR</td>
<td>6 years US Nuclear Navy, 18 years commercial nuclear, 20 years - DOE</td>
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<tr>
<td>Pedro LopezdeVictoria, MS</td>
<td>Training Manager, Parsons</td>
<td>6 years US Nuclear Navy, 13 years commercial nuclear, 5 years - DOD, 2 years - DOE</td>
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<tr>
<td>Bob Prince, MS</td>
<td>Fuel Facilities Inspector, NRC Region II</td>
<td>35 years commercial nuclear, 7 years NRC</td>
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<tr>
<td>Gordon Quillin, MS</td>
<td>Deputy Director, Radiological Protection Dept., SRNS</td>
<td>15 years commercial nuclear, 20 years DOE &amp; private consulting</td>
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## Core Curriculum

### RPT Courses

- RPT-101 – Introduction to Radiation Protection
- RPT-103 – Radiation Fundamentals
- NET-105 – Reactor Components and Systems
- RPT-113 – Radiation Monitoring
- RPT-223 – Radiation Dosimetry
- RPT-233 – Radioactive Materials Handling
- RPT-243 – Radiological Safety and Response
- RPT-253 – Radiation Protection

### Industry Focused

- RPT-290 – RPT Internship
- RPT-120 – 40 hour HAZWOPER
- ENG-160 – Technical Communications
- ENG-260 – Advanced Technical Communications
- EGR-105 – Safety in the Workplace
Lab Equipment

Donations & Loans

• SRS
  Hand-held Survey Instruments

• Frham Safety Products
  Containments, Posting Supplies

• UNITECH
  Anti-C Needs

• Value-Added Solutions
  Hand-held Survey Instruments, Air Samplers, HandECounts, Triathler, Consumables

• VC Summer
  EPDs and Reader
Enrollment and Course History

Fall 2008
- 41 students
- 3 subjects
- 4 classes
- 2 labs

Spring 2010
- 172 students
- 9 subjects
- 16 classes
- 5 labs

Students in program at start of each semester

16 students obtained certificates in Fall ’09
10 certificates and 14 as degrees in Spring ’10
Every graduate has been placed or is in the process of getting placed.
RPT Activities/ Future

NEI-NUCP Qualified Curriculum (Fall-2010)

Technical Scholars Program

Letter of Intent for Quality Control and Quality Assurance

Lab Vision
Expansion of Scenario-driven mock-ups

Possible Relationships
GET Training
HPS Student Chapter
Questions?

Thank you!