AGENDA
UNIVERSITY OF NEW HAMPSHIRE
RADIATION SAFETY COMMITTEE
1st Quarter Meeting 2013
March 28, 2013
1:00 pm-2:00 pm
Rudman G79

1. Old Business
2. Approval of 4th Quarter 2012 Meeting Minutes
3. Annual Report
4. Radiation Surveys
5. Proposed Cyclotron
6. Dosimetry Results
7. Laser Safety
8. X-Ray Safety
9. Training Report
10. Radioactive Waste Update
The UNH Radiation Safety Committee (RSC) held the First Quarterly meeting for 2013 on March 28, 2013.

Attachments: Annual Report

The following members were in attendance:

<table>
<thead>
<tr>
<th>Voting</th>
<th>Non-Voting</th>
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<tr>
<td>Dr. Andrew Laudano, MCBS-Chair</td>
<td>Michele Arista, RSO</td>
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<td>Dr. Olof Echt, Physics, Vice Chair</td>
<td>Bradford Manning, Director EHS</td>
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<td>Dr. James Connell, Space Science</td>
<td>Dr. Julie Simpson, Research and Integrity</td>
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<td>Center, Physics</td>
<td>Services</td>
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The following members were absent:
Dr. Thomas Foxall, Biological Sciences
Jan Nisbet, Senior Vice Provost for Research
Dr. Edward Tillinghast, Zoology
Chair Andrew Laudano brought the meeting to order at 1:05 pm.

1. **Old Business:** None.
2. **Approval of Fourth Quarter 2012 Minutes:** Committee Member Echt made a motion to accept the revised Fourth Quarter 2012 Minutes. Committee member Connell seconded the motion, and the motion was approved.
3. **Annual Report:**
   - There were recommendations to the UNH Radiation safety Program on the Annual Report conducted by Clym Environmental in October 2012. Training was not complete at the time Clym performed their audit. This has been corrected and we have 100% compliance on radiation worker training.
   - They also noted that our waste module is in need of repair and the temporary Sealine container which houses decay-in-store waste needs replacement. Plans are already underway to remedy this issue with the construction of a new building for radioactive waste.
4. **Radiation Safety:**
   - All radiation surveys for the first quarter of 2013 are complete. One item of non-compliance was issued. The Denis lab did not complete their 6 month wipe tests.
   - The Slifer lab will be doing research with a strong magnetic and microwave source in DeMeritt 103. We may hire a consultant to help with training and Gauss mapping.
   - The new radioactive license is due to the State for review by Oct 31, 2013. The RPP will be ready for review by the committee by the next RSC meeting.
5. **New Cyclotron:**
   - The Chemical Engineering may be housing a small cyclotron to conduct research on producing radioactive N-13. A location has not been found yet. The dose levels are much smaller than a normal cyclotron. Dr. Xiaowei Teng will be involved in the project. Prof. Carr is the current contact. Ionetix is the company that would own and operate the machine. Dr. Mark Leuschner is the RSO for the company. They would take care of registering the machine with the State and licensing the N-13 produced if necessary. Committee member Manning suggested that the RSC invite Dr. Leuschner, Prof. Carr and Prof Teng to the next RSC meeting to speak about the project.
6. **Dosimetry Results:**
   - The Oct-Nov 2012 and Dec. 2012-Jan 2013 badges were reported within the ALARA limits of 10% of the regulatory limits.
• The Annual reports were distributed and the highest Total Effective Dose Equivalent, TEDE was 21 mrem. The annual allowable TEDE is 5000 mrem. All doses were within ALARA I guidelines of less than 10% of the annual allowable dose.

7. Laser Safety:
• There is a new lab, the Kinsey lab on Kingsbury S211. This is a class 4 laser lab, but the beam is unclosed by a fiber optic and a steel housing. No goggles are needed under normal operations.
• Meg Greenslade has moved her laser lab to Parsons. The key will be off the master. I will have a key for emergencies.

8. X-Ray Report:
• The Krzanowski lab has moved to Parsons. There is a new x-ray diffraction unit. One of the old diffraction units was disassembled. The x-ray tube was taken out and put into storage.

9. Training:
• A Radiation Worker training was conducted by the RSO on Feb 6, 2013 and a Radiation Awareness training was conducted for contractors in Morse.

10. Radioactive Waste Update:
• A new building will be built to accommodate Radioactive Waste and liquid Scintillation counting! The Chemical transfer station will be located in the same building. This will remove hazardous materials from Perpetuity Hall and provide permanent storage for decay-in-store radioactive waste.

11. Other Business:
• Clym Environmental drafted a revision of the permit application to use radioactive materials. We will discuss this and any other revisions at the next meeting.

12. Committee Chair Laudano made a motion to adjourn the meeting at 1:30 pm and member Connell seconded the motion. Committee members voted for the motion to adjourn, and the motion passed.