NCCHPS

Northern California Chapter-Health Physics Society
January 2016



Joint NCCHPS and ANS January 2016 Dinner Meeting

Thursday, January 21, 2016 5:30 pm Social, 7 pm Dinner, 8 pm Presentation Berkeley Yacht Club, Berkeley, CA

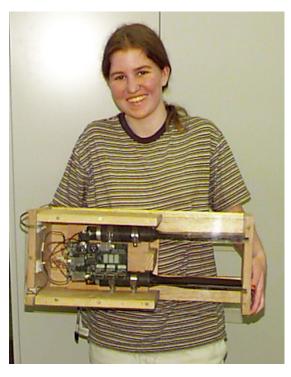
Detecting Cosmic Rays with the Berkeley Lab Muon Detector

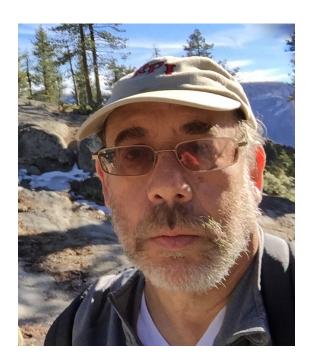
Howard Matis, Affiliate Staff Scientist Lawrence Berkeley National Laboratory

Cosmic radiation is everywhere; its study is of deep scientific interest. In 2015, the Nobel Prize in Physics was awarded to two researchers who buried their detectors deep underground to shield them from charged cosmic rays so they could identify cosmic neutrinos. Current experiments that search for exotic phenomena, such as Dark Matter and Proton Decay, also need to be constructed deep under the earth's surface to shield from these charged rays.

At Berkeley Lab, we have created a portable cosmic ray detector (http://cosmic.lbl.gov) to educate the public on radiation. We use it to demonstrate that we are bombarded by radiation that we cannot shield. It is an ideal instrument to use because the observer receives no additional radiation exposure. Students, teachers, and researchers all over the world have used this design. It has been built for science projects, flown on rockets, brought deep underground, and carried on balloons. In fact, the Berkeley Detector has traveled to all of the continents of the world including Antarctica.

In my talk, I will describe what has been done with this detector and then demonstrate its capabilities.





NCCHPS January 2016



NCCHPS is now on Twitter

With agreement of the Board, NCCHPS is increasing our social media presence. The twitter account is ready for members to follow:

https://twitter.com/ncchps.





61st Annual Health Physics Society Annual Meeting
17-21 July 2016, Spokane, Washington

Spokane looks forward to hosting the Health Physics Society! The Spokane Convention Center, headquarters for the Health Physics Society Conference in 2016, sits in the heart of our city, making it convenient to quickly visit unique shops, restaurants and attractions.

The headquarters hotel in Spokane is the The Davenport Grand, Autograph Collection, 333 West Spokane Falls Boulevard, Spokane, WA 99201.

As part of the 2016 annual Health Physics Society (HPS) meeting in Spokane, NORM/TENORM Industry Day will be held 19 July 2016 for those interested in naturally occurring radioactive material/technologically enhanced naturally occurring radioactive material issues in mining and oil- and gas-recovery activities.

NCCHPS January 2016

Please note the no-host meet & greet

Upcoming NCCHPS Meetings...

January 21, 2016
Joint NCCHPS-ANS Meeting

March 17, 2016 HPS President-Elect Visit

> May 19, 2016 Affiliate Night

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The Next NCCHPS Meeting!

begins a bit earlier than usual, dinner at the regular time 5:30 pm- 7:00 pm no-host meet & greet, 7:00 pm – 8:00 pm buffet dinner, 8:00 pm announcements and presentation.

Berkeley Yacht Club (North end of the Berkeley Marina) 1 Seawall Dr. Berkeley, CA 94710 http://www.berkeleyyc.org

The buffet dinner menu will feature: Rosemary chicken Poached salmon Vegetarian lasagna Rice pilaf, roasted potatoes, and vegetable medley Dessert, coffee and tea

Please register by Midnight on January 11, 2016 using the form below

http://hpschapters.org/ncchps/dinner.php3

NCCHPS members \$30 (\$35 @ door) Guests \$35 Students \$10 Non-members \$40

Only online registrations accepted. Contact Craig Maxwell (<u>craig.maxwell56@outlook.com</u>) ONLY if you encounter difficulties registering online.

Please note that in order to avoid unnecessary costs to the Chapter, you may be charged for no-shows. Cancellations may not be made after the RSVP deadline.

2015-2016 NCCHPS Board Members:

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