



# CINCINNATI RADIATION SOCIETY MEETING



**Thursday, February 25, 2016  
6PM to 8 PM**

**Cincinnati Children's Hospital Liberty Township  
Proton Therapy Center  
7777 Yankee Rd, Liberty Township, OH 45044**

**The Proton Therapy Center at  
Cincinnati Children's Hospital / University of Cincinnati Health**

**Michael Lamba, Ph.D.**

**ABSTRACT:** Proton therapy is a significant advance in external beam radiotherapy. The Cincinnati Children's / UC Health Proton Therapy Center is completing construction and will open its doors for patient treatments in the fall of 2016. This seminar will describe the Bragg peak advantages of proton therapy relative to conventional radiotherapy, the equipment utilized to produce and deliver the proton beams, the treatment process, and the technologies employed. The type of proton beam delivery system used at the facility, pencil beam scanning, is a relatively new technology and there are opportunities for further development. The differences in the biological effects of proton and photon radiation are not well known and require further study. The Cincinnati proton facility will have a treatment gantry dedicated to research – the only U.S. clinical facility with a dedicated research beam. Planned and potential research projects will be discussed. With this highly technical resource employed in a clinical environment there is great potential for the exchange of ideas and collaborative research.

**BIO:** Dr. Michael Lamba is a Professor in Radiation Oncology and Director of Physics in the Proton Therapy Center at the University of Cincinnati Barrett Cancer Center. Dr. Lamba received his B.S. in Nuclear Engineering from the University of Virginia and his M.S. in Radiological Sciences and Ph.D. in Medical Physics from the University of Cincinnati. His doctoral thesis involved radiation dose mapping using MRI in a superheated emulsion chamber.

Dinner will be kept simple with pizza and soft drinks. A dinner fee of \$5 for members (\$10 for non-members) is requested.

**Please RSVP for this meeting at [meeting@crs-hps.org](mailto:meeting@crs-hps.org) ASAP.**

**\*\* If you have not yet paid your CRS membership dues (\$10) for the 2015-2016 membership year, please consider paying during this meeting time.**

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