

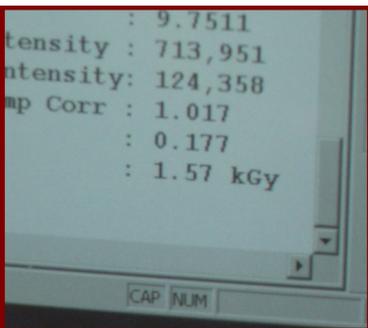
2012 Annual Hands-On Workshop in E-Beam and X-ray Irradiation Technologies

April 1-6, 2012 | Texas A&M University, College Station, TX

The National Center for Electron Beam Research (NCEBR) at Texas A&M University in College Station, Texas serves as an un-biased venue for academic, government, and industry scientists to carry out strategic electronic pasteurization and sterilization research and commercial projects using E-beam and X-rays.

To address the needs of the food, phytosanitary, agribusiness, and pharmaceutical industries, the NCEBR is organizing a week-long hands-on workshop in E-Beam and X-ray technologies. This will be the third E-Beam workshop, after successful workshops in 2010 and 2011.

The objective of this workshop is to promote a strong understanding of E-Beam and X-ray irradiation technologies and illustrate how these technologies can be exploited to improve the quality of human lives around the world.



LOCATION

College Station is about a 2 hour drive from Houston/Austin and about 4 hours from Dallas. There are direct flights into College Station (CLL) by Continental and American Airlines.

REGISTRATION

Early registration fee is **US \$2100** until Feb 24th, 2012. Late registration is **US \$ 2245** after Feb 24th, 2012. **Registration covers 5 nights hotel accommodation, welcome reception, an eBook Manual, hard-copy manual, lunches, dinners, refreshments, workshop materials, course completion certificates, and daily transportation from local hotels.**

Payment via credit card, wire-transfer, or check can be made at <http://agriliferegister.tamu.edu>; **Keyword: E-Beam**

ACCOMODATIONS

Hotel reservations will be made at the Homewood Suites in College Station. Check-in will be Sunday, April 1st with a check-out on Friday, April 6th, 2012. Additional details will be sent to the registrants.

Please send emails requesting workshop information to Prof. Suresh D. Pillai (s-pillai@tamu.edu) or Ms. Katherine McElhany (kmcelhany@gmail.com)

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The **objectives** of the **hands-on** workshop are:

- ◆ To provide hands-on experience and training in ionizing radiation focusing on E-Beam and X-ray technologies
- ◆ To provide hands-on training in alanine dosimetry, radio-chromic film dosimetry, dose-mapping, and dose validation with single- and dual-beam E-beam configurations and X-ray
- ◆ To provide attendees with an understanding of the actual costs, equipment, permits, and other critical information to adopt the technology
- ◆ To network with current E-Beam technology end-users, leading E-Beam/X-ray equipment vendors and suppliers, irradiation technology scientists, and technology adopters

Lecture Topics:

- Principles of E-Beam and X-ray irradiation
- Dose-distribution and dosimetry
- Roadmap for technology adoption
- Packaging products for E-Beam and X-ray irradiation
- Current consumer acceptance trends
- Pharmaceutical and environmental applications
- National and international regulations
- ASTM Standards and Codex Standards

Hands-On Exercises:

- E-Beam and X-ray dose measurements
- Exploiting single and dual E-Beam configurations
- Dose-distribution in ground beef, fresh produce products, and packaging
- Determining D-10 values for microbial inactivation
- Validating microbial inactivation in packaged products
- Dose-mapping of different density materials



National Center for Electron Beam Research

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