

The Unit of Nuclear Engineering invites you to a

Special Workshop on

## Gamma-ray Spectrometry

### Recent advances in research, development, and applications

*Ben-Gurion University of the Negev*

**Tuesday-Thursday, Feb. 20-22, 2018**

The Marcus Family Campus, Building 90, class 323

Prof. Sheldon Landsberger

Nuclear and Radiation Engineering Program

The University of Texas at Austin

Texas, USA

#### Abstract

Research and development in Gamma-ray spectrometry have significantly increased in the past two decades. While there are several very good books and academic courses on general nuclear instrumentation, there are very few courses dedicated solely to gamma-ray spectrometry. The applications of gamma-ray spectrometry cover a wide range of areas including naturally occurring radioactive materials (NORM), radiation detection of residues from mining activities, homeland security, detector development, nuclear medicine, etc. A 3-days workshop including basic gamma-ray experiments, review of fundamentals of gamma-ray interactions, decay schemes, instrumentation and electronics, calibration, statistics, in-situ detectors, low-level gamma-ray counting detectors in nuclear medicine, and radiation on the Israel phosphate production will be covered.

Note: Participants will have the opportunity to briefly present their projects and receive professional comments and feedback. Two such 15-minutes presentations followed by 15 minutes discussion are planned for each day between 13:00-14:00.

#### Tentative schedule for each day:

09:00-10:20	Lecture I
10:20-10:40	Coffee break
10:40-12:00	Lecture II
12:00-13:00	Lunch break
13:00-14:00	Participants' lectures
14:00-15:00	Lecture III
15:00-15:20	Coffee break
15:20-16:30	Lecture IV

Participation is free of charge. For registration, please contact Dr. Erez Gilad via [gilade@bgu.ac.il](mailto:gilade@bgu.ac.il).