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Expert talk under HRNCET Project

Operational Principles of Spectroscopic techniques

Alfred A. Christy, BSc (Pera), PhD (Bergen, Norway)

*Professor of Chemistry, Dept. of Science, Faculty of Engineering and Science
University of Agder, Kristiansand, Norway*

Abstract of the talk: The speaker will discuss on operating principles of Spectroscopic techniques such as UV-VIS and infrared. He will mainly focus on components, basics and instrumentation of UV-VIS spectroscopy as well as Infrared spectroscopy / vibrational modes of molecules, measuring techniques, instrumentation, FTIR spectrophotometer, Instrumentation, overtones and combination frequencies.

Venue : Mini-Auditorium, Department of Physics

Date & time : March 22, 2018, 11:00 am

Target group : Researchers and Special degree students in Physics and Chemistry

Brief profile of the speaker



Professor Alfred A. Christy obtained a Bachelor's degree in Chemistry from the University of Peradeniya, and his masters and PhD from the University of Bergen, Bergen, Norway. The first position held by Professor Christy was as a Demonstrator/Assistant Lecturer in Chemistry at the University of Jaffna in Sri Lanka (1976-1977). After a six years contract appointment in Nigeria as senior Science master, he moved to Norway and started his postgraduate education while working as an assistant teacher in Chemistry at the Department of Chemistry, University of Bergen (1983-1990). After completing his postgraduate education, he joined the Department of Chemistry as a research Scientist (1991-1992) and later as a laboratory manager/research scientist in the FT-IR laboratory he built up at the department (1992-1998). He assumed a professorship in Chemistry at the Department of Chemistry, University of Agder in 1998.

Professor Christy has accumulated an impressive list of scientific achievements during his career. He has published over 100 papers in scientific journals and presented more than 110 lectures at conferences, institutions of higher learning and industrial establishments around the world. Professor Christy has authored several book chapters and reports. He co-authored a book entitled "Modern Fourier transform Infrared Spectroscopy" (A. A. Christy, Elsevier-2001). He has also been a co-editor of a second book "NIR spectroscopy in Food Science and Technology" (Wiley, 2006). Professor Christy has acted also as a referee for some 25 different International Journals across a wide spread of disciplines related to chemistry.

Professor Christy has been included in several biographical directories from 1991 onwards. He has also received several awards such as "Man of the Year 1994", "20th Century Achievement Award (1995)" and several other honours such as "Five hundred leaders of influence in the world".