

Invitation

Sponsored by BRNS

*'We cordially invite you to the inauguration of the seminar
on*

Non-Power Applications of Nuclear Energy

to be held at

Scott Christian College (Autonomous)

Date : 29th and 30th August, 2018

Venue: Conference Hall

Organized by

Department of Zoology and Research Centre

Scott Christian College (Autonomous)

Nagercoil - 629 003

Organizer

Dr.S. Godwin Wesley

Professor Emeritus

Mobile: 09443607998

Email: godwinwesley@yahoo.com

Convener

Dr.V. Robin Perinba Smith

Associate Professor and Head

Department of Zoology and Research Centre

Mobile: 09443001698

Email: vsmith0268@gmail.com

History of Scott Christian College

Scott Christian College – named after Mr. Septimus Scott, a generous foreign supporter of this institution, has evolved from the education work started by the Rev. William Tobias Ringeltaube, of the London Missionary Society. The school founded by him in 1809 at Mylaudy was shifted to Nagercoil by the Rev. Charles Mead in April 1818. In 1819, it became the central school and rose to a second grade college in 1893 affiliated to the University of Madras. In 1938, when the University of Travancore was founded in the former Princely State of Travancore to which this area belonged, the college was admitted to its privileges. In 1950, the institution was raised to a first grade College providing degree courses. Owing to the merger of this part of the country with the state of Madras in Nov 1956, this college was again affiliated to the University of Madras. However, with the establishment of the Madurai Kamaraj University in 1966, the college was affiliated to the Madurai Kamaraj University and since 1990 to the Manonmaniam Sundaranar University, Tirunelveli.

The college has been ranked 37th position out of 20,000 colleges in India, as per the assessment made by National Institute Ranking Framework, HRD, Ministry, and Government of India.

Vision of the College

Scott Christian College (Autonomous) is committed to providing a liberal Christian education which develops the total personality of the students so that they become worthy citizens of this country with understanding and tolerance, brotherly love and highest standards of integrity.

About the Seminar

“Non-Power Applications of Nuclear Energy”

Nuclear energy has number of applications apart from power production. Radiation isotopes and radiation used in food and agriculture are helping to reduce food spoilage. The Food and Agriculture Organization (FAO) of the United Nations (UN) estimates that about 795 million people (one in nine) were suffering from chronic undernourishment in 2014-2016. Food irradiation is the process of exposing food stuffs to gamma rays to kill bacteria that can cause food-borne diseases, and to increase shelf life. The FAO works with the IAEA (International Atomic Energy Agency) on programs to improve food sustainability assisted by nuclear and related biotechnologies.

Radiation used to control insect populations via the Sterile Insect Technique (SIT). SIT involves rearing large populations of insects that are sterilized through irradiation (gamma or X-rays), and introducing them into natural populations. Radioactive materials are used to inspect metal parts and the integrity of welds across a range of industries. For example, new oil and gas pipeline systems are checked by placing the radioactive source inside the pipe and the film outside the welds.

Radiation and radioisotopes in medicine are used particularly in diagnosis (identification) and therapy (treatment) of various medical conditions. Hospitals use gamma radiation (a cobalt-60 source effective than steam heat sterilization) to sterilize medical products and supplies such as syringes, gloves, clothing and instruments that would otherwise be damaged by heat sterilization.

In the future, electricity or heat from nuclear power plants could be used to make hydrogen.

Address for Correspondence:

Dr. S. Godwin Wesley
Professor Emeritus
Department of Zoology and Research Centre,
Scott Christian College (Autonomous),
Nagercoil – 629 003,
Mobile: 9443607998
Email: godwinwesley@yahoo.com

SEMINAR ON NON-POWER APPLICATIONS OF NUCLEAR ENERGY

29 and 30 August, 2018

Scott Christian College (Autonomous)
Nagercoil – 629 003

REGISTRATION FORM

To register please complete and submit the following information

Name: Dr./Mr./Mrs

Institute:

Address:

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E.mail:

Phone:

Field of Interest:

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Signature of the Participant:

Last date for submission of filled registration forms 28-08-2018

(Photocopies of this form can be used)

**SEMINAR ON NON-POWER
APPLICATIONS OF NUCLEAR ENERGY**

29 and 30 August, 2018
Scott Christian College (Autonomous),
Nagercoil



PROGRAMME

Day I

- 9.00 a.m. : Registration
10.00 a.m. : Welcome Address
Release of (KBS) Book
and Documentary &
Inaugural Address: 10:15 to 11:00 am
(Dr. Debonic Roy)
11:00-11:15 a.m.: Tea break
11:15-12:00a.m.: Radiation in diagnosis
and treatment of cancer
- Dr. P. Suthahar
12.30 -1.15 : Lunch
1:30-2:30 p.m.: Use of radiation in plant
hybridization
-Dr. Suresh G Bhagwat
2.30 - 3.30 p.m : Application of
radiation on food preservation
- Dr.S.K. Ghosh
07:00-09:00 p.m.: Cultural
Programme &Dinner

Day II

- 10:00-11:00 pm : Nuclear energy and
desalination
- Dr. P.K. Tewari
11:00-11:15 am : Tea break
11:15-12:15 pm : Energy for future
- Dr. P. P. Kelkar
12:45 -1:45 pm : Lunch
1:45-2:45 pm : Climate change and
nuclear power
- Dr. I. V. Dulera
1:45-2:45 p.m.: Water management
and radiation
- Dr. Gursharan Singh
3:00 -3:30 p.m.: Valedictory Function
Industrial Applicatios
of Radiaton
- Dr. B. Venkatraman,

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**Board of Research in Nuclear Sciences
(BRNS)**

