



SACRED
HEART
COLLEGE
Autonomous



PLATINUM JUBILEE
INTERNATIONAL SEMINAR
ON
**Quantum
Materials**

..... 18 DECEMBER 2019

Venue: Fr. Melesius Hall, SH College, Thevara



Organised by
PG and Research Department of Physics
(DST - FIST sponsored)
Sacred Heart College (Autonomous), Thevara

Accredited at A grade by NAAC, College
with potential for excellence by UGC
(Affiliated to Mahatma Gandhi University, Kottayam)

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Convener : **Dr. Siby Mathew**, Phone : 9495 184 173
Coordinator : **Dr. Jimmy Sebastian**, Phone: 7559 034 246
Joint Coordinator : **Dr. Pius Augustine**, Phone: 7994 647 087

Dear Sir/Madam,

Department of Physics Sacred Heart college Thevara, is organising a one day International seminar on "Quantum Materials". Quantum materials brings together scientists working on a variety of problems at the frontiers of Physics, Material science and Engineering. The properties of these systems remain manifest even at high temperatures and macroscopic length scales. The Seminar provides a wonderful opportunity for you to enhance your knowledge about the latest interdisciplinary approaches in quantum materials. Moreover the seminar will give you a valuable platform to interact with eminent faculties and create new contacts in the new and emerging field of Quantum materials.



About the College

Sacred Heart College, Thevara, Kochi was established in 1944 by the CMI Congregation – reputed pioneers in education. It is an autonomous, co-ed college with a student strength of 2399 (69% girls) and is affiliated to Mahatma Gandhi University, Kottayam, Kerala. It offers a variety of conventional and vocational programmes across its 16 UG, 16 PG departments and 6 research centers.

The college was chosen as "College with Potential for Excellence" in 2004 by the UGC; the status was extended in 2010 and is still continuing now. The college was granted "Autonomous Status" by the UGC and the state government in 2014. In the third reaccreditation of NAAC in 2013, the college was awarded A Grade (CGPA 3.30). It has an NIRF (2019) ranking of 57 in the country. Forty nine of our PG students have been able to qualify JRF/NET exam during the last 3 years. In the national surveys for the "Best Fifty Colleges" undertaken by 'The Week' and 'India Today', the college was ranked one among the best 30 colleges for Science, Arts and Commerce in the country.

About the Department

The Department of Physics is a PG and Research Department (DST FIST Sponsored). The Department has been offering research programme leading to PhD. The Department has separate laboratories for Research in Opto - electronics, Material science and Space physics. The faculties consist of 6 Ph.D. and one M.Phil holders. The department has an extension centre called 'Mitratham', a pioneering project dedicated to re-search and development of renewable energy systems.

Manager

Rev.Dr. Augustine Thottakkara CMI

Principal

Rev.Dr. Johnson Palackappillil CMI

Convener

Dr. Siby Mathew (HOD)

Coordinator

Dr. Jimmy Sebastian

Joint Coordinator

Dr. Pius Augustine



PROGRAMME SCHEDULE

9:00 -10:00 Registration

10:00 - 10:30 Inauguration

TECHNICAL SESSION -1

10:30 - 11:30 Prof Thomas Thundat

SUNY Empire Innovation Professor

Department of Chemical and Biological Engineering

University at Buffalo, USA

11:30 - 12:30 Interaction Session

with Prof Thomas Thundat

12:30 -13:30 Lunch

TECHNICAL SESSION - 2

13:30 -14:30 Dr. Aldrin Antony

(Associate Professor CUSAT)

14:30 - 15:00 Interaction session with Dr. Aldrin Antony

15:00 - 15:30 Valedictory Function



Dr. Thundat holds a Ph.D. in Physics from the State University of New York at Albany, and a Master's degree in Physics from the Indian Institute of Technology, Madras. He has authored over 400 publications in refereed journals, 57 conference proceedings, 15 book chapters, and 40 US patents. He serves on editorial boards of many journals. Thundat is the recipient of many awards that include the U.S. Department of Energy's Young Scientist Award, three R&D 100 Awards, ASME Pioneer Award, Discover Magazine

Award, Scientific American 50 Award, Jesse Beams Medal, Nano 50 Award, multiple national awards from the Federal Laboratory Consortium for excellence in technology transfer. Oak Ridge National Laboratory named him Inventor of the Year two times. He is also a Battelle Distinguished Inventor. Thundat is an elected Fellow of the American Physical Society (APS), the Electrochemical Society (ECS), the American Association for Advancement of Science (AAAS), the American Society of Mechanical Engineers (ASME), and the Society for Optical and Photonics Engineers (SPIE), the American Institute for Medical and Biological Engineering (AIMBE), and the National Academy of Inventors (NAI).



Dr. Aldrin Antony completed his Ph.D. from Department of Physics, Cochin University of Science and Technology. He did his post-doctoral research at ENEA, Italy and worked as a research scientist and team leader at the Solar Energy Group of University of Barcelona. Dr. Aldrin was selected as the first 'National Solar Science

Fellow' of Ministry of New and Renewable Energy (MNRE), and was hosted by the Department of Energy Science and Engineering in IIT Bombay. He is an investigator of the National Centre for Photovoltaic Research and Education at IIT Bombay and served as Senior Project Executive officer. Currently, Dr. Aldrin is working as an Associate Professor at the Department of Physics, Cochin University of Science and Technology. He had received ICS- UNIDO (international centre for Science and High Technology and United Nations Development Organisation), and ICTP-UNESCO post-doctoral fellowships. Dr. Aldrin initiated a start-up 'Renovar Green' in Mumbai and serves as the Independent Director of the company.



ORGANIZING COMMITTEE

Dr. Siby Mathew, Prof. Alex Shinu Scaria, Dr. Roby Cherian,
Dr. Jimmy Sebastian, Dr. Sumod.S.G, Dr. Mathew George, Dr. Pius Augustine
Prof. Navya S L, Ms. Celin Mary V.J, Ms. Sunsu Kurian



REGISTRATION FEE

Students - ₹100, Teachers - ₹200

LOCAL HOSPITALITY WILL BE EXTENDED TO ALL PARTICIPANTS

Register online at: <http://bit.ly/2RLqMiO>

WITH BEST COMPLIMENTS



HOLMARC
OPTO-MECHATRONICS PVT. LTD.



SCIENTIFIC ENTERPRISES

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