

ABOUT THE COLLEGE: The Velammal Engineering College (VEC) established in 1995, affiliated to Anna University Chennai, is situated 25 Kms from Chennai Airport. VEC is one among the top ten self-supporting engineering institutions amongst 540 colleges in TamilNadu. VEC is ISO 9001: 2008 certified institution and is also accredited by NAAC. It has 8 UG Programmes & 3 PG Programmes. It has R&D cell, well equipped laboratories, Placement and Training Cell.

ABOUT THE DEPARTMENT: Department of Physics actively working on NLO Materials, Nanomaterials, Materials for Display Devices, Sol-Gel Method and Theoretical research work on Nonlinear Dynamics. Researchers in the department are actively engaged in various funded projects sponsored by CSIR, DST(SERB), DRDO, DST, AICTE& ISRO. The department is also offering Ph.D programmes. Faculties of Physics published more than 100 papers in reputed National / International journals and presented papers in National / International Conferences.

ABOUT THE CONFERENCE: The **National Conference on Nanomaterials, NLO materials & Nonlinear dynamics (NCNNN - 2018)** is being organized by the Department of physics, Velammal Engineering College, Chennai-66. Materials research is the most important platform for the development of our country. It has a multidisciplinary nature with tremendous potential to create new materials and devices for wide range of applications. Nanomaterial research is most important one. It takes a material science-based approach to nanotechnology and synthesis which have been developed in support of microfabrication research. Material with nanoscale structure have unique optical, electronic and mechanical properties.

Nonlinear Optics (NLO) is the branch of optics that describes the behavior of light in nonlinear media. Nonlinear optics explains nonlinear response of properties such as frequency, polarization, phase or path of incident light.

A simple nonlinear dynamical systems and even piecewise linear systems can exhibit a completely unpredictable behavior, which might

seem to be random, despite the fact that they are fundamentally deterministic. This seemingly unpredictable behavior has been called as chaos.

Integrable systems are nonlinear differential equations which 'in principle' can be solved analytically. This means that the solution can be reduced to a finite number of algebraic operations and integrations. Such systems are very rare - most nonlinear differential equations admit chaotic behaviour and no explicit solutions can be written down.

The conference aims to provide a healthy competition among the researchers to bring out their skills and competences and translate their research findings for the promotion of industrial growth and Nation building.

TOPICS TO BE COVERED

- Nonlinear optical materials
- Nonlinear Dynamical Systems -Numerical and Analytical Studies
- Chaotic & Integrable - Nonlinear Systems
- Crystal growth and characterization
- Thin Films
- Magnetic, thermoelectric materials
- Ferroelectric, piezoelectric materials.
- Semiconductors, Nanomaterials
- Sol-gel techniques

SUBMISSION OF PAPER

Delegates interested in submitting the papers are requested to send abstract (maximum 200 words) to the coordinator by e-mail. Authors are invited to submit papers of the original work not more than 8 pages of double column text using single-spaced, 10-points Times New Roman font on 8.5 x 11 inch pages.

PARTICIPANTS

Faculty members of Engineering Colleges and Arts and Science Colleges, Research Scholars, PG Students and Professional from R & D organizations/ Industries.

IMPORTANT DATE

Abstract Submission	: 10-03-2018
Acceptance notification	: 15-03-2018
Submission of full length paper	: 29-03-2018



National Conference on Nanomaterials, NLO materials and Nonlinear dynamics (NCNNN-2018)

06-04-2018



Organized by
Department of Physics
Velammal Engineering College
Chennai-600 066

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Students / Research Scholars : Rs. 300/-
Faculty : Rs. 500/-
Delegates from R & D
Organizations / Industries : Rs. 750/-

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