



SRI SARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

Institution recognised u/s 2(f) & 12(B) of UGC &

Reaccredited with "A" grade by NAAC

(A branch of Sri Ramakrishna Tapovanam, Thirupparaiturai)

Ariyakulam, Thoothukudi NH, Maharaja Nagar Post, Tirunelveli -11



DEPARTMENT OF PHYSICS

International e-conference on "Recent trends in Applied Physics" (IECRTIAP – 21)

28.10.2021

Venue – Google meet Platform

Time : 9.30 – 4.30 pm

On behalf of PG department of Physics, International e-conference on "Recent trends in Applied Physics" was held on 28.10.2021, through Google meet platform. Welcome address was delivered by Smt.S.Magara Jothi Lakshmi, Assistant Professor of Physics and the presidential address was given by Dr. N.Kamala, The Principal, Sri Sarada College for Women (Autonomous). Three subject experts namely Dr. **Elayaraja Kolanthai, Research Scientist, Department of Material Science and Computer Science**, University of Central Florida has delivered the special talk on "**Introduction of Bio-materials and its applications**", Dr.K.B.Rajesh, Assistant Professor of Physics, Chikkana Government Arts College, Tirupur, has delivered a special talk on "Optics for Nano-scale Applications, and Dr. Sridhar Sampath, Assistant Professor of Physics, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology has delivered a special talk on " Nano-materials for Photo-catalysis" respectively. Many UG and PG students inside and outside the college were presented their research papers through poster and oral presentation. Students and Faculty members were actively participated in this conference and gained more knowledge on Applied Physics. During interactive sessions, questions were asked by the students and it was clarified by the resource persons. Finally, Selvi. S. Sathya, Co-Convenor, has delivered the vote of thanks for the successful completion of the conference.



Biomaterials History

A Broken Leg in the Year 1350: Treatment and Prognosis



1. Wood
2. Rope
3. Felt

Cyrragus, written by the Flemish surgeon Jan Visselman (1265-1335) in Dutch
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2011021/pdf/broken-leg-year-1350-treatment-and-prognosis.pdf>

Early biomaterials:

Gold: Inert metal [does not oxidize], used in dentistry.

Iron, Brass: High Strength Metals, rejoin fractured femur

Glass: Hard ceramic, used to replace eye [cosmetic]

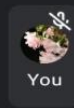
Wood: Natural composite, high strength to weight, used for limb prostheses.

Bone: Natural composite

3 2 1 0 9 8 7 6 5 4 3 2 1 0

SRI SARADA COLLEGE FOR WOMEN, TIRUNELVELI, KERTIPAL, October 28,

Elayaraja Kolanthai



You



Sarada



40 others



ABOUTOURCOLLEGE

Sri Sarada College for Women, Tirunelveli was started in the year 1986 to cater the educational needs of the women of Southern districts of Tamil Nadu. It is an un-aided higher education institution recognized and included under sections 2(f) & 12(B) of University Grants Commission (UGC) re-accredited with 'A' grade by NAAC and conferred with Autonomous status since 2019-20. It is affiliated to Manonmaniam Sundaranar University, Tirunelveli. The educational vision and mission of the college are reflected in the motto of the college. "The Harmonious Development of the Head, the Heart and the Hand" of the student is the vision of our Revered founder Srimath Swami Chidbhavananda. His great desire was that, the girls who enter the portals of this Temple of Learning should leave it as "Nirai Nangaiyar" - 'The Perfect Women'. Character building and culture inculcation re-hebasi upon which the super structure of modern education is raised here. The college offers 11 UG Programmes, 7 PG Programmes, 4 M.Phil., Programmes with 2 Research centers leading to Ph.D., in Computer Science and Commerce. The institution is having AICTE- MCA and MHRD sponsored Diploma in Sanskrit under Rashtriya Sanskrit Sansthan.

ABOUT THE DEPARTMENT

The PG department of Physics is one among the well-established vibrant science departments. The B.Sc., Physics major was started in the year 1987 and the department was upgraded as a PG department in 2015. The vision of the department is importing scientific awareness among the students through suitable syllabi there by producing successful Physicist. The faculty members are with expertise on Nanophysics and technology, Crystal growth, Biophysics, Energy and storage Materials, and Nuclear Physics.

RESOURCE PERSONS

- **Dr. ELAYARAJA KOLANTHAI**
Research Scientist
Department of Material Science and Computer Science
University of Central Florida-32816, USA
- **Dr. K.B. RAJESH**
Assistant Professor
Department of Physics
Chikkana Government Arts College, Tirupur-641602, South India.
- **Dr. SRIDHAR SAMPATH**
Assistant Professor,
Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology (Deemed to be University)
Chennai-600062, South India.



SRISARADA COLLEGE FOR WOMEN

(An Autonomous Institution)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

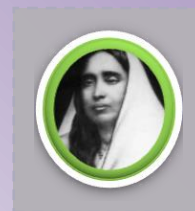
Institution recognized u/s 2(f) & 12(B) of UGC

& Re-accredited with "A" grade by NAAC

(A branch of Sri Ramakrishna Tapovanam,
Thirupparaithurai) Ariyakulam, Thoothukudi NH, Maharaja

Nagar Post

TIRUNELVELI-627011, TAMILNADU, INDIA



INTERNATIONAL E-CONFERENCE ON "RECENT TRENDS IN APPLIED PHYSICS"

IECRTIAP 2021

28.10.2021

Organized by

PG Department of Physics

E-mailid: physicsconference2021@gmail.com

Website: <http://www.srisaradacollege.org>

CHIEFPATRON

Yatiswari Saravanabhavapriya, Secretary

DIRECTOR

Prof. (Major) P. Chandrasekaran

PRESIDENT

Dr. Smt. N. Kamala, M.Com. M.Phil. PGDCA, Ph.D, DGT, Principal,

ORGANISING COMMITTEE

CONVENOR

Smt. S. Magara Jothi Lakshmi

Assistant Professor & Head,

Co-CONVENOR

Selvi R. Sathya

Assistant Professor

Expert Committee

- **Mr. S. GANESAN**, M.Sc., M.Phil.,
Assistant Professor
Vivekananda College, Tiruvadakam West,
Madurai-625234, Tamilnadu, South India.
- **Dr. P. SUMITHRAJ PREMKUMAR**, M.Sc., M.Phil., Ph.D.
Assistant Professor,
PG Department of Physics,
St. John's College, Palayamkottai-627002,
Tirunelveli. Tamilnadu, South India.
- **Dr. S. JEYAKUMARI**, M.Sc., M.Phil., M.Ed., PGDCA, Ph.D.
Assistant Professor,
PG Department of Physics,
Sri K.G.S. Arts College,
Srivaikuntam-628601, Tuticorin (Dt), Tamilnadu, South India.

ORGANIZERS

- Dr. (Smt). S. Bagavathi, Assistant Professor in Physics.
- Dr. (Smt). N. Booma Devi, Assistant Professor in Physics.
- Smt. V. Archana, Assistant Professor in Physics.
- Smt. C. Rama Jeya, Assistant Professor in Physics.
- Selvi K. Niranjana Devi, Assistant Professor in Physics.

OBJECTIVE OF THE CONFERENCE

The aim of this International E-conference is to give exposure on the current trends on nano-bio-materials, nano-optics and nano-catalyst with state-of-art technology to teaching professionals, researchers, scientists and students.

AREAS

The topic relevant to the **IECRTIAP 2021** are listed below, however not limited to

| | |
|-------------------------------------|---------------------------|
| Nanophysics and Technology | Crystal growth |
| Energy and storage Materials | Smart Materials |
| Solid State Physics | Geophysics |
| Space Physics | Nuclear Technology |

ABSTRACT SUBMISSION DETAIL

Abstract should be typed in MSWord format, word Limit is 250 words with size 12 in Times New Roman and 1.5 spacing, keywords (Maximum 6). Abstract should include the following sections: Title, Authors, Name, Affiliation, Corresponding Author and Email ID. The corresponding author will be marked with asterisk (*).

FOR ONLINE PAPER PRESENTATION

Paper presenters will be given 5 minutes to present their work and 2 minutes for interaction. Delegates will be intimated by the conference team regarding their timeslot.

IMPORTANT DATES

| | |
|------------------------------------------------------------------------------|---------------------|
| Submission of Abstract | : 17.10.2021 |
| Full Paper Submission Dead Line | : 22.10.2021 |
| Intimation of Acceptance | : 25.10.2021 |
| Last Date for Registration | : 11.10.2021 |
| Fee for Paper Presentation | : 100 INR |
| (E-Abstract Proceeding with ISB Number, E-Certificate will be issued) | |