

QUANTUM DOTS FOR NEXT-GENERATION PHOTOVOLTAIC SOLAR CELLS 27.12.2018

The department of Physics organized a Seminar on Solar Energy harvesting for next generation on 27.12.2018. The programme began with Prayer by our students. Prof. Dr.R.Raja, Assistant Professor of Physics delivered the welcome address. Prof.T.Gnanasekaran, Director, Sri Jayendra Saraswathi Centre for Advanced Research introduced the speaker Prof. Dr. Kedar Singh, Professor of Physics, School of Physical Sciences, Jawaharlal Nehru University, New Delhi, after honouring the Guest with the shawl and memento. Then the speaker delivered his keynote address on the topic "Quantum Dots for Next-Generation Photovoltaic Solar cells". Prof.J. Suganthi proposed Vote of thanks. The programme, successfully ended with



PARTICIPATION IN PROGRESS REVIEW MEETING OF DST AT DELHI:



SCJAR of our university is developing an indigenous Differential Scanning Calorimeter under DST funding. In this regard, Prof.Dr.K. Venkataraman, PI and Sri.R.Parthasarathy Co-PI attended the Progress review meeting conducted by the Expert advisory Group of Dept. of Science and Technology held at IIT, Delhi on 11th Jan. 2019. They presented the technical progress made in the project to the committee. This progress review meeting includes a poster presentation as well.

SPECIAL ACHIEVEMENTS BY THE DEPARTMENT:

- Dr.K.Venkataraman, Head of the department received "Albert Nelson Marquis Lifetime Award" in 2018.
- Our department staff members published more than 10 papers in reputed journals

MoUs SIGNED

Organisation	Date of MoU signed	Purpose and Activities
Research Institute of Advanced Energy Technology, Kyungpook National University, Korea	03.08.2018	1. Mutual exchange of students and faculties 2. Exchange of Publications 3. Co-operative research 4. Joint lectures and seminars
Daegu Regional Infrastructure Technology Development Center, KNU, Daegu, South Korea	03.08.2018	1. Mutual exchange of students and faculties 2. Exchange of Publications 3. Co-operative research 4. Joint lectures and seminars

PLACEMENT DETAILS – III B.Sc PHYSICS – 2015-2018 BATCH

S.No	Name of the Candidate	Instant Global Service	Skill Plan	Fincom	Sutherland	Infosys	MMC	Infotech
1	D. Anitha	Placed	placed	-	-	-	-	-
2	M. Aswini	Placed	placed	-	-	-	-	-
3	K.Neelakandan	Placed	placed	Placed	-	-	-	-
4	C. Soorya	Placed	placed	Placed	-	Placed	Placed	Placed
5	B. Divyanshu	Placed	placed	-	-	-	-	-
6	D.Vijayakumar	-	Placed	-	-	-	-	-
7	A. Rajesh	-	placed	-	-	-	-	-
8	K.Pavithra	-	-	-	-	-	placed	-
9	T. Ramya	-	-	-	-	-	placed	-
10	L.Sharmila	-	-	placed	-	-	-	-
11	S. Gowtham	-	-	Placed	-	-	-	-
12	K.Surika	-	-	Placed	-	-	-	-

STUDENTS ACTIVITIES:

1. B.Sc III Year students participated in inter collegiate event "Spectra" organized by department of Physics/MCC at Chennai on 13/02/2018.
2. B.Sc I Year students participated in Seven days campaign organized by NSS Wing of SCSVMV during the period 8/2/2018 to 14/2/2018.
3. B.Sc I Year students participated in Blood donation campaign organized by NSS Wing of SCSVMV on 15/03/2018.
4. S.Sharmila of I.M.Sc Physics – participated in Spardha 2018 and won first prize in the chess competition.
5. Our Football, Cricket, Volleyball teams consisting our B.Sc and M.Sc students participated in Spardha 2018.
6. D.Prabhu of I B.Sc Physics – participated in Poetry-Recitation, and won second prize in the Kannadasankavarijanam(State level) August 2018.
7. E. Sandhya of I.H.Sc Physics – participated in Zhaganam, and won case prize in the National poetryChennai/October 2018.

JOURNAL PUBLICATIONS:

1. D.Vedhavalli et al. (2017) "Growth and characterization of nonlinear optical crystal - Semicarbazide Picrate". Journal of Molecular Structure, Vol. 1147, 515-519
2. A.Jeejani and E.Dhamu et al. (2017) "Stability Studies on Silver Nanoparticles Synthesized by Green Method Using Phyllanthus Niruri And Solanum Nigrum Leaf Extracts". International Journal of Innovative Research in Advanced Engineering, Vol. 9, No. 4, 44-49
3. A.Jeejani and S.Janarthan (2017) "Morphology Studies on Silver Nanoparticles Synthesized by Green Method Using Ficus Procumbens And Citrus Aurantium Leaf Extracts". International Journal of Innovative Research in Advanced Engineering, Vol. 9, No. 4, 50-54

PAPER PRESENTATION BY THE STUDENTS IN CONFERENCES

S.No.	Name of the Student	Paper presentation	Place	Date
1	S.Shethi	Use It or Lose It - Review	Chitral College, Bagalur, Karnataka	23.01.2018
2	B.Dhanootharan	Density functional study of ethylbenzene	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
3	V.Laxwathi	Frontier Molecular orbital, Contour map, Electrostatic potential study of 2-methyl-3-phenylpropan-2-one	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
4	S.Sharmila	HOMO-LUMO analysis of Cyclohexane	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
5	B. Logaveeran	DF based vibrational spectroscopic investigations of p-tert-butylphenylhydrazide diethyl acetal	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
6	A.Nithya	Stability functional theory studies of P-(P-Methoxyphenyl)acetaminone	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
7	S. Karthiqa	Growth and Characterization of dye doped Vanillin single crystal	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
8	V.K. Mahalingappa	Optical and thermal properties of Alizarin red dye doped vanillin single crystal	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
9	S.Shethi	Studies of Congo Red Dye doped with vanillin single crystal	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
10	B. Harivathsa	Optical and thermal properties of vacuum coated CuO thin films by thermal evaporation technique	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
11	D. Rajalakshmi	Vibrational and Frontier molecular orbital analysis of 5,8-Dimethyl-2-naphthol	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
12	M.Krishnakumar and J.M.Selvi	Thermal - Acoustic Studies of Polyethylene Glycol (PEG 850)	WESPAC - 2018, CSIR, NPL, New Delhi	11/11 - 15.11.2018
13	M.Mohan (B.Sc)	A study on acoustic, thermal and molecular interaction properties analysis of PEG	SAMCO Institute of Technology, Rajapalayam	11/01 - 11.01.2019
14	M.Mahaling (B.Sc)	Miscibility studies of PEG/PVP blends in water by viscosity, density, refractive index, and ultrasonic velocity techniques	SAMCO Institute of Technology, Rajapalayam	11/01 - 11.01.2019
15	P.Drivas (M.Phil)	Theoretical and Experimental Analysis of ultrasonic velocity and refractive index studies of binary systems of PEG with water	SAMCO Institute of Technology, Rajapalayam	11/01 - 11.01.2019
16	KANAKDHEE S	Study of Congo red dye doped with vanillin single crystal	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
17	RVETHIA V	Mulliken atomic charge analysis of 3'-Bromo-5-nitrobenzaldehyde and 4'-Bromo-5-nitrobenzaldehyde – a comparative study	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018
18	SARATH K	Workshop on ultrasonic technology & innovation	Department of Physics, Eswari Engineering College, Chennai	18-19.09.2018

SEMINARS / CONFERENCES / WORKSHOP / TRAINING ATTENDED BY THE STUDENT

S.No.	Name of the Student(s)	Nature of the events	Place	Date
1	All I MSc Physics students	9th National Thermophysical properties Conference (NCTP 2017)	IGCAR Kalpakkam	6-8.11.2017
2	All I MSc Physics students	National Seminar on Recent Advances in Condensed Matter Physics [NSCMP-2017]	SCSVMV University	09.11.2017
3	N.Saritha, M.Phil Physics student	Workshop on Photocatalytic Technology and Innovation (WPTI 2K18)	AMET University	24-25.09.2018
4	All II M.Sc Students	Two days workshop on structural characterization of materials and interpretation	Sri institute of science and technology (ramapuram campus) Department of physics	27-28.09.2018

Contact

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DEPARTMENT OF PHYSICS

SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

(Deemed to be University U/s 3 of UGC Act 1956) (Accredited with "A" by NAAC)
Enathur, Kanchipuram-631 561. Tamilnadu, India.

Spectra

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Volume 3

Patrons

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Department of Physics serves with the dynamic mission to achieve excellence in both academic and research perspectives. Physics acts as the core of Science, as most of the inventions are brought forth by it. The department has awarded 18 Ph.Ds and more than 190 M.Phil degrees. The teachers and scholars of the department have published around 150 research articles so far. The research activities of the department include synthesis of nano particles and characterization, study of molecular structure and composition through spectroscopic analyses, molecular interaction studies through ultrasonic investigation, synthesis and characterization of thin films by physical vapour deposition, crystal growth techniques, mineralogical and heavy metal analyses, etc. Thin film coating unit (PVD), Gaussian 09 software, Brookfield Viscometer, Sieve Shaker and Ultrasonic interferometer for solids and liquids are available for research. The department of Physics extends its instrumentation facilities to other departments and institutions.

USP of the Department

- ◆ UG, PG and research degree Programmes
- ◆ Qualified and research oriented faculty
- ◆ Well stocked department Library
- ◆ Funding from Government of India
- ◆ Well equipped laboratory
- ◆ Advanced instrumentation techniques
- ◆ Publication in high impact journals
- ◆ Research consultancy services
- ◆ Seminars and workshops by experts

Opportunities

- ◆ Scientific Positions (IGCAR, IISc, IITs, BHEL, BARC, BSNL....)
- ◆ Teaching Positions (Universities, Colleges & Schools)
- ◆ Research Positions (Universities & Colleges)
- ◆ Various Jobs in Public / Private sectors (IT / Banking)

Courses Offered :

B.Sc., M.Sc., M.Phil., Ph.D.,

Research Areas :

Applied Spectroscopy, Computational Spectroscopy, Crystal growth, Nano Science
Thin Films, Ultrasonics.

This newsletter features various activities of the department of Physics for the year 2018-19

NATIONAL CONFERENCE ON 'THERMO PHYSICAL PROPERTIES' 6.11.2017



Thermophysical Properties of India (TPI) is organised 9 - National Conference on Thermophysical Properties (NCTP - 2017) at IGCAR - Kalpakkam during 6-8 Nov, 2017. The objective of the conference is to provide a forum for academic and industrial researchers to meet and exchange their valuable experiences in the field of Thermophysical properties of a wide variety of materials. The technical programme of invited talks, oral and poster presentations in the fields like Nanocomposites, Nanomaterials, Multifunctional Materials, Thermomechanical properties of materials and computational methods. Various eminent scientist from

IGCAR, VARC, JNCASR, TIFR etc., delivered keynote address in this prestigious conference. Around 1000 research scholar from various parts of the country are attended this conference. PG Student our department utilized this conference to very great extent.

SEMINAR ON CONDENSED MATTER PHYSICS 09.11.2017



The Department of Physics organized "Seminar on Condensed Matter Physics" on 09/11/2017. Prof.Dr.K.Venkatramanan, Head of our department delivered the welcome address. Prof.Dr.S.Balaji, Dean (Faculty of Science) honored the Chief Guest Dr.Arun Prathap, Applied Physics Department, The Maharaja Sayajirao University of Baroda with the shawl. The speaker delivered a talk on basic Concepts of Physics, matter and its types and an elaborate talk on Condensed matter. In addition, he has thrown a light on the highlights of his published paper "The AP-Index: Within and Beyond" and explained his own methodology of calculating H-Index. Prof.K.C.Srinivas, Director of Advanced Research centre and many students interacted with the speaker and enriched their knowledge. The program concluded with National Anthem.

THAILAND PROFESSOR MEET 20.2.2018 AND 9.3.2018



A meeting was arranged for interaction with the Professors from Kasetsart University, Thailand who visited our University campus on 20.2.2018. Prof.C.V.Venkatramanan, Head of our department welcomed the delegate Prof. Dr. Vichain Laohakasol, Department of Maths, Kasetsart University. Many student interacted and got utilized.

PARENT-TEACHER MEET 23.07.2018



The parent-teacher meet of our department was held on 23.07.2018 by the department of physics around 50 parents of UG and PG students attended the meeting. Individual interaction with faculty members was arranged subject wise for discussing academic and personal matters of their wards. Suggestions were exchanged for better improvement of students in academic and personal disciplines. A common meeting with faculties and parents was convened on behalf of the head of the department various courses and research facilities available at the department and achievements of the department were explored to the parents.

NATIONAL SEMINAR ON GLIMPSES OF INDIAN SPACE PROGRAM (PAST, PRESENT AND FUTURE) 25.01.2018

The department of Physics organized a National Seminar on "Glimpses of Indian Space Program -Past, Present and Future" on 25/01/2018. Prof.Dr.K.Venkatramanan, Head delivered the Welcome address. Prof.K.C.Srinivas, Director of Advanced Research Centre of our institution honored the Speaker and Chief Guest Dr. T. K. Sundaramurthy, Mission Director (Retd.) & Consultant, Communication and Meteorological Spacecraft, ISRO Satellite Centre, Bangalore with the shawl. After honoring the Guest, Prof.K.C.Srinivas felicitated the gathering. Dr.M.Sundarrajan, Assistant Professor introduced the Speaker and then the Chief Guest gave a special lecture on "Glimpses of Indian Space Program -Past, Present and Future" and showed many Videos. After the lecture, faculty members of various department and students actively interacted with the speaker and enriched their knowledge. The seminar was concluded with Vote of Thanks by Ms.Durga of II M.Sc Physics and President of Physics Society proposed.



IMPULSE 2018 27.02.2018



The Program began with an invocation " Tamilthaivaazhthu". The welcome address was given by Prof Dr. K. Venkatramanan, Head of the department. Then Prof C.V. Venkatakrisnan, the Chairman of Physics Society expressed his views on the "Objectives of the society" and then Dr. V. Ravagendran explained about the events scheduled. Many events such as Quiz, Scientific Model, Poster Presentation, Pictionary, Paper Presentation, Elocution, painting and Spot Photography were conducted to explore and showcase the talents of the students. Students from nearby colleges: Sri Ram Arts and Science college, Krishna college and our students of SCSVMV participated in the competitions.

INDUSTRIAL VISIT 2.03.2018

Department of Physics organized an industrial visit to Indian Institute of Astro Physics, at Kodaikanal. Forty students of the IV semester B.Sc accompanied by three of the faculties of the department. The students of second year B.Sc and all the three staff members enjoyed the technical endeavor at the Centre a lot. The visit was highly informative and gained good learning experience.



DEPARTMENT OF PHYSICS, SIXTH NATIONAL WORKSHOP ON INSTRUMENTATION TECHNIQUES (PINTECH' 18) 12.03.2018



The Department of Physics organized Sixth National Workshop on Instrumentation Techniques In Physics [PINTECH-18] on 12-03-2018. Prof.Dr.K.Venkatramanan, Head, Department of Physics & Convener [PINTECH-18] welcomed the gathering. Dr.V.Ravagendran, Asst. Prof. of Physics & Organizing Secretary - PINTECH-18 narrated the objectives of the workshop. Prof.Dr. G.Srinivasu, Registrar, SCSVMV, the President of the function honored the Chief Guest Prof.Dr. RamasamyMurugan, Professor and Head, Department of Physics, Pondicherry University and released the manual on various Instrumentation techniques covered in PINTECH 2018 and the first copy was received by the Chief guest. Prof.Dr.RamasamyMurugan addressed the gathering.

and inaugurated the workshop. Prof. Dr.S.Balaji, Dean (Faculty of Science) and Prof. K.C.Srinivasu, Director, Sri Jayendra Saraswathi Centre for Advanced Research felicitated the gathering. The first keynote address was delivered by Prof.Dr.RamasamyMurugan on the topic "Instrumentation for Synthesis and Characterization of Advanced Functional Materials" and the second keynote address was delivered by Prof.K.C.Srinivasu on the topic Scientific Instruments as Import Substitutes / affordable options to Educational Institutions. Participants clarified their queries during the discussion time. In the afternoon session, participants were divided into batches and the fundamentals, working principle of various instrumentation techniques were explained and demonstrated.

WORKSHOP ON ELECTRONIC - CIRCUITS AND PROJECTS ON 02.04.2018.

The Department of Physics conducted Workshop on Electronic Circuits and Projects on 02.04.2018. The workshop started with a prayer. Dr.K.Rajalakshmi, Assistant Professor and Organizing Secretary of this workshop delivered the welcome address. Prof.Dr.K.Venkatramanan, Head and Convener of this workshop briefed about the aims and significance of this workshop. Prof.C.V.Venkatakrisnan, Professor of our department talked on the focus of this workshop and choice of particular experiments for demonstration with their scientific applications. Prof.Dr.S.Balaji, Dean, Faculty of Science, delivered the Presidential address and gave a talk on role of Physics in all fields of study. Prof.Dr.M.N.Ponnusamy, Emeritus Scientist, Crystal Growth Centre, University of Madras and Prof.Dr.S.Jayakumar, Professor of Physics, Vivekananda College felicitated the gathering. The nine experiments were demonstrated by III year B.Sc and I M.Sc Students. Some Faculty members of various departments, Students from Mechanical department, Physics department students participated in this workshop. After the demonstration, Certificates of Appreciation was given to all students of demonstration session.



3RD INTERNATIONAL CONFERENCE ON FUNCTIONAL MATERIALS (ICFM) 25.06.2018&26.07.2018



The department of Physics organized an International Conference on Functional Materials (ICFM 2018) in association with Department of Applied Physics, Sri Venkateswara College of Engineering, Sripurumbud on 25th and 26th June 2018. The first day of conference began with Maitrem Bhajata, (a song composed by Paramacharya of Kanchi for world Peace sung by M.S.Subbulakshmi) followed by lighting of kuthuvillakku by the dignitaries. Prof. Dr. K.Venkatramanan, Head, Department of Physics welcomed the gathering. Dr.R.Raja, Organising Secretary (ICFM 2018) explained the objectives of the conference. Prof.Dr.S.Jayarameddy, Honourable Chancellor, SCSVMV delivered the Presidential address and inaugurated the conference. He honoured the Chief

guests Prof.AnanthalyengarGopalan, Visiting Professor, Kyungpook National University, Daegu, South Korea and Prof. P.V.Ramachandran, Professor Organic Chemistry, Purdue University, USA. Prof.Dr.V.S.Vishnupaty, Hon.ble Vice Chancellor, SCSVMV honoured Prof.Dr.M.Sivanandham, Secretary, SVCE, Prof.S.Ganesha Vaidyanathan, Principal, SVCE and Prof. Dr.A.Bhaskaran, Prof & Head, Dept. of Applied Physics, SVCE. Then, Vice-Chancellor addressed the gathering and released the Book of abstracts of ICFM which was received by the guest of Honour Prof.Dr.M.Sivanandham, Secretary, SVCE. Prof.Dr.G.Srinivasu, Registrar of our University exchanged MoU documents with Prof. AnanthalyengarGopalan of Kyungpook National University, Daegu, South Korea. Two MoUs were signed. One between Department of Physics of our University and Research Institute of Advanced Energy Technology, Kyungpook National University, Daegu, South Korea and other one with Faculty of Engineering & Technology of our University with Daegyeong Regional Infrastructure Technology Development Center, KNU, Daegu, South Korea. Prof. Dr.M.Sivanandham, Secretary, SVCE and the Prof. P.V.Ramachandran addressed the gathering. Then Prof.Dr.S.Balaji, Dean (Science) and Prof. Dr.A.Bhaskaran, Prof & Head, Dept. of Applied Physics, SVCE, felicitated the gathering. The inaugural address was concluded and the technical session started after the Group Photo session. The chairperson for the technical session - I was Prof. C.V.Venkatakrisnan of our department and he conducted the proceedings. The first keynote address was delivered by Prof.A.Gopalan, Professor Kyungpook National University on the topic "Development of Novel Functional Gels for Environmental Applications". The second keynote address was delivered by Prof.M.Sivanandham, Professor, Dept. of Biotechnology, SVCE on the topic "Biomaterials in Tissue Engineering". The chairpersons for the technical session-II were Prof.K.Sivakumar, Head, Department of Chemistry of our University, and Dr.T. Gnanasekaran, Raja Ramanna Fellow, IGCAR(Retd.) Director-SJCAR of our University and they conducted the proceedings. The third keynote address was delivered by Prof. P.V.Ramachandran, Professor, Purdue University, USA on the topic "Stereo-defined synthesis of fluorinated alkenes". The first invited talk was delivered by Dr.O.Sentil Kumar, (FIRST Research Center of Nanobiodevice, Nagoya University, Japan) Ramco Institute of Technology, Rajapalayam on the topic "Comparing the use of silicon and plastic chips in incubation type planar patch clamp". The second invited talk was delivered by Dr.S.Karthikeyan [Ph.D from University of Twente, Netherlands], Madras Christian College, Chennai on the topic "Electrochemical Synthesis of various Metal Oxides and Platinum for Hydrogen fuel cells". The Oral and Poster presentation began after the technical session-II. The oral session were conducted with 10 research paper presentations and 25 poster presenters. Awards were given for Best Oral and Poster presentations.

FIRST YEAR-INAUGURAL FUNCTION 23.07.2018

The inaugural function of the students admitted into Faculty of Science for the academic year 2018-19 was held on 23.07.2018 at Physics Lab around 10am.



FRESHERS' DAY CELEBRATION 10.08.2018

Senior students of our department organized Fresher's day on 10st Aug 2018, 11 am at Adi Sankara Auditorium to welcome 1 year B.Sc students of our department. All students and faculty members attended the welcome meeting. The function started with prayer. Ms. Deepika of II year Physics and Member of Physics Society welcomed the gathering. Newly joined students of our department gave self-introduction. Prof.Dr.K.Venkatramanan introduced some of the students who have rejoined us for higher studies after successful completion of B.Sc and M.Sc course and also briefed about the placement assistance given to our final year students. Prof.C.V.Venkatakrisnan explained the importance and merits of studying Physics and advised the students to concentrate in studies. The Fine and Cultural Association of our University entertained the students with their performance. Many exciting games were conducted by senior students to bring out the innate talent of the students.



TEACHER'S DAY CELEBRATION 7.9.2018



Our students organized teacher's day celebrations on 7.9.2018 in the department premises. The Head of department Prof.Dr.K.Venkatramanan welcomed the gathering and appreciated students for their noble gesture towards the teachers and encouraged the students for future activities. The students conducted various interesting events for teachers and teachers also actively engaged themselves in the events. The students of the department expressed their gratitude towards various academic services rendered by faculty members. Finally the event organizers thanked the teachers for their support and guidance.

RESEARCH COLLOQUIUM 31.08.2018,29.09.2018



The department of Physics conducted Research Colloquium, an activity under the banner of Physics Society on 31.08.2018 at 1.30pm at Physics Research lab. Our Head, Prof.Dr.K.Venkatramanan initiated the seminar, Prof.C.V.Venkatakrisnan acted as Chairperson and the Coordinator Dr.K.Rajalakshmi made arrangements for the Colloquium.