

**A Report on International Conference on
Advanced Materials for Energy and
Environmental Applications
(ICAMEA-2020)**

February 20 – 21, 2020



Organized by

**PG & Research Department of Physics
THIRU KOLANJIAPPAR GOVERNMENT ARTS
COLLEGE (GRADE – I)
VRIDDHACHALAM - 606 001
In association with ISTA-Elavenil**

**Catalyzed and Financially Supported by Tamilnadu State Council
for Science and Technology, Department of Higher Education,
Government of Tamilnadu**

Content of the Report

Sl. No.	Details	Page No.
1	Report on the Conference	01
2	Invitation	02
3	Programme Schedule	04
4	List of Participants	06
5	Photographs	15
6	Press News	24
7	Proceedings Front Page	25

Report on International Conference on Advanced Materials for Energy and Environmental Applications (ICAMEA-2020)

This Conference has been organized by the PG & Research Department of Physics, Thiru Kolanjiappar Government Arts College (Grade I), Vriddhachalam in association with the Indian Science and Technology Association - Elavenil.

Professor **G. Rajavel**, Principal, TKGAC has presided over the Inaugural function and Mrs. **S. Mugunda Kumari**, Head, PG and Research Department of Physics gave welcome address. Professor **P. Ramasamy** from SSN Institutions gave inaugural address and Professor **Jiban Podder** gave the special guest address. Professor **R. Jayavel** from Anna University delivered the Keynote Address. In addition, Professor **M. N. Ponnuswamy** and Prof. **D. Velmurugan** from University of Madras, Professor **P. Murugakoothan**, Principal, Kandasamy Naidu College, Chennai, Former Principals of Thiru Kolanjiappar Government Arts College Prof. **R. Rajasekaran** and Prof. **K. Velu** have felicitated the event. The conference was highly beneficial to the Researchers who are working in various fields of Materials Science. The ultimate goal of the conference has been realized by imparting a basic understanding and exposure about the recent developments in Materials Research and their applications to young Researchers. In the conference, keynote/invited lectures by eminent experts from various institutions in India and abroad and Oral/Poster presentations by the participants have been delivered and discussed, respectively. In order to accommodate the speakers and oral presenters parallel sessions were conducted as per the programme schedule enclosed in this report. Around 250 abstracts have been received from various levels of researchers from the countries like Japan, South Korea, Taiwan, Bangladesh and China which made this conference a grand success. Around 150 participants from various parts of India and abroad have participated in the event. Apart from these around 40 PG Students from other Arts and Science Colleges also participated. The list of Participants registered has been enclosed in this report. The important Photographs taken in this event has been attached herewith. The following thrust areas covered in this conference are Nanoscience and Nanotechnology, Thermoelectric Materials, Solar Cells, Materials for Environmental Applications, Crystal Growth, Crystallography, Thin films, Spectroscopy, Nonlinear Dynamics, Simulation and Modelling.

At the end, this conference has been catalyzed and financially supported by Tamilnadu State council for Science and Technology, Department of Higher Education, Government of Tamilnadu.

Convener



Dr. P. Anandan

International Conference on Advanced Materials for Energy and Environmental Applications (ICAMEA-2020)

20 & 21 February, 2020

Organized by

PG & Research Department of Physics

In Association with

Indian Science and Technological Association - Elavenil



Thiru Kolanjiappar Govt. Arts College (Grade I)
Vriddhachalam – 606001
Tamil Nadu, INDIA

About the Institution

Thiru Kolanjiappar Government Arts College (Grade I), Vriddhachalam was established in the year 1965. The College is affiliated to Thiruvalluvar University. This College offers various courses in Arts, Science and Commerce. It is recognized by University Grants Commission (UGC) and accredited in second cycle with B grade by National Assessment and Accreditation Council (NAAC). This College aims to provide better opportunities to the rural, socially and economically backward students. The mission of the College is to impart quality education by developing competent manpower with high standards that adds positive value to the society. The College has excellent infrastructure with well-equipped facilities for the academic and extracurricular activities.

About the Department

The PG & Research Department of Physics, Thiru Kolanjiappar Government Arts College (Grade I), Vriddhachalam was established in the academic year 1982-1983 with Under Graduate Programme in Physics. Post Graduate Programme in Physics was started in the academic year 2013-2014. The Department has been recognized as a Research Centre by Thiruvalluvar University, Vellore from 2015 and in the same academic year, M.Phil. Course in Physics was started. At present, 14 Research Scholars have registered for their Ph.D. Degree, both under Full-time and Part-time modes. This Department has produced eminent personalities in various fields. The faculty members have expertise in almost all areas of Physics.

About the Conference

This Conference is organized by the PG & Research Department of Physics, Thiru Kolanjiappar Government Arts College(Grade I), Vriddhachalam

in association with the Indian Science and Technological Association - Elavenil. The conference will be highly beneficial to the Researchers who are working in various fields of Materials Science. The ultimate goal of the conference is to give a basic understanding and exposure about the recent developments in Materials Research and their applications, especially to young Researchers. The conference includes key note/invited lectures by eminent experts from various institutions in India and abroad and Oral/Poster presentations by the participants.

Focussing Areas

The following thrust areas are to be covered but not limited to:

- Crystal Growth
- Crystallography
- Thin films
- Spectroscopy
- Nanoscience and Nanotechnology
- Thermoelectric Materials
- Solar Cells
- Nonlinear Dynamics
- Simulation and Modelling

Abstracts

The abstracts are limited to single page including figures, tables or references, if any. Key words should be provided and are limited to four. The title of the abstract should be in Times New Roman font with size 14. The Authors' names should be in font size 12. The affiliations should be in font size 10. The content of the abstract should be in font size 12 with a line spacing of 1.5. Abstracts are to be sent to: icamea2020@gmail.com.

Organising Committee

Patron

Prof. G. Rajavel

Principal, TKGAC

Co-Patron

Ms. S. Mugunda Kumari

Head, Department of Physics, TKGAC

Convener

Dr. P. Anandan

Department of Physics, TKGAC

Co-Convener

Dr. P. Shanmugha Sundaram

Department of Physics, TKGAC

Organizing Secretaries

Dr. R. Murugesan

Dr. K. Velvizhi

Department of Physics, TKGAC

Co-ordinators

Dr. K. Veeramuthu

Dr. G. Helen Ruth Joice

Dr. K. Vallalperuman

Ms. M. Anitha

Dr. P. S. Ramesh

Dr. N. Sundaramurthy

Dr. G. Viruthagiri

Dr. R. Ezhil Pavai

Ms. S. Gajalakshmi

Dr. R. Sridhar

Department of Physics, TKGAC

Registration Fee

PG Students: Rs.500/-

Research Scholars: Rs.750/-

Faculty Members: Rs.1500/-

Foreign Delegates: Rs.7000/-

For Further Details,

Contact

Dr. P. Anandan

Convener, ICAMEA-2020

+91-9443809583

Scientific Advisory Committee

International

Prof. P. Ramasamy, SSN College of Engineering, India

Prof. Yasuhiro Hayakawa, RIE, Shizuoka University, Japan

Prof. Satoshi Uda, IMR, Tohoku University, Japan

Prof. K. Kalyanasundaram, SFIT, Switzerland

Prof. Ajayan Vinu, The Univ. of Newcastle, Australia

Prof. Kozo Fujiwara, IMR, Tohoku University, Japan

Prof. Ioannis Sarris, University of West Attica, Greece

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Dr. R. R. Sumathi, Ludwig-Maximilians-Univ., Germany

Dr. R. Sankar, National Taiwan University, Taiwan

Dr. S. Anbu, University of Hull, UK

National

Prof. P. Kolandaivel, Periyar University, Salem

Prof. M. N. Ponnuswamy, University of Madras, Chennai

Prof. S. Gunasekaran, St. Peter's University, Chennai

Prof. D. Velmurugan, University of Madras, Chennai

Prof. R. Rajasekaran, AVASC, Thiruvannamalai

Prof. J. Kumar, Anna University, Chennai

Prof. S. Ganesan, Anna University, Chennai

Prof. R. Jayavel, Anna University, Chennai

Prof. S. Balakumar, University of Madras, Chennai

Prof. G. Ravi, Alagappa University, Karaikudi

Prof. K. Sankaranarayanan, Alagappa University, Karaikudi

Prof. G. Anbalagan, University of Madras, Chennai

Prof. Rita John, University of Madras, Chennai

Prof. D. Rajan Babu, VIT University, Vellore

Dr. G. Vaitheeswaran, University of Hyderabad, Hyderabad

Dr. M. Arivanandhan, Anna University, Chennai

Dr. K. Gunasekaran, University of Madras, Chennai

Dr. R. Mohan Kumar, Presidency College, Chennai

Dr. V. N. Mani, C-MET, Hyderabad

Dr. N. Vijayan, National Physical Laboratory, New Delhi

Dr. S. Ganesamoorthy, IGCAR, Kalpakkam

Dr. K. Thangaraju, NIT, Warangal

Important Dates

Last Date for Submission of Abstracts: 07-02-2020

Last Date for Payment of Registration Fee: 15-02-2020

International Conference on Advanced Materials for Energy and Environmental Applications (ICAMEA-2020)

20 & 21 February, 2020

Registration Form

Name :

Designation :

Department :

Address :

Category : Student/ Scholar/ Faculty

Mobile No :

Email :

Mode of Participation : Participant/Oral/Poster

Title of the Paper :

Mode of Payment : Online/Cash

Signature :

Online Payment Particulars*

Account No. : 108801000014551

Name : PRINCIPAL

Bank and Branch : IOB, Vriddhachalam

IFSC No. : IOBA0001088

*For online payments, Reference No. and Author name should be sent to conference mail ID.

International Conference on Advanced Materials for Energy and Environmental Applications

(ICAMEA-2020)

20 - 21 February, 2020

Programme Schedule

Plenary Lectures: 2, Special Lectures: 4, Invited Talks: 26, Total Lectures: 32

Day - 1 (20.02.2020)

Registration: 8.30am to 9.00am

INAUGURATION: 9.00 am to 10.00 am

Talk	Time	Speakers name	Institution
Plenary Lectures at Auditorium			
Chairperson: Prof. R. Jayavel, Anna University, Chennai			
Plenary Lecture-1	10.00 am to 10.45 am	Prof. P. Ramasamy	SSN Institutions, Chennai, India
Plenary Lecture-2	10.45 am to 11.30 am	Prof. Jiban Podder	Bangladesh University of Engineering & Technology, Bangladesh
Tea Break: 11.30 am to 11.45 am			
Keynote Lectures at Auditorium			
Session I – Crystallography and Biophysics			
Chairperson: Prof. P. Ramasamy, SSN Institutions, Chennai, India			
Keynote Lecture-1	11.45 am to 12.30 pm	Prof. M. N. Ponnuswamy	University of Madras, India
Keynote Lecture-2	12.30 pm to 01.15 pm	Prof. D. Velmurugan	University of Madras, India
Lunch: 1.15 pm to 2.00 pm			
Invited Talks at Auditorium			
Session II – Materials for Energy Applications			
Chairperson: Prof. M. N. Ponnuswamy, University of Madras, India			
Invited Talk-1	2.00 pm to 2.30 pm	Dr. P. Murugakoothan	Kandhasamy Naidu College, Chennai, India
Invited Talk-2	2.30 pm to 3.00pm	Dr. R. Krishna	Pondyicherry University, India
Invited Talk-3	3.00 pm to 3.30 pm	Dr. S. Sakthivel	IARCPMNM, Hyderabad
Invited Talks at Physics Lecture Hall-1			
Session III – Materials and their Characterization			
Chairperson: Prof. D. Velmurugan, SRM Institute of Science and Technology, Chennai, India			
Invited Talk-4	2.00 pm to 2.20 pm	Dr. R. Navamathavan	VIT University, Chennai, India
Invited Talk-5	2.20 pm to 2.40 pm	Dr. Muthu Senthil Pandian	SSN College of Engg., India
Invited Talk-6	2.40 pm to 3.00 pm	Dr. R. Ramesh Babu	Bharathidasan University, Trichy, India
Invited Talk-7	3.00 pm to 3.20 pm	Dr. G. Poongodi	QMGC, Chennai-2, India
Invited Talk-8	3.20 pm to 3.40 pm	Dr. M. Karl Chinnu	DAGAC, Viyasarpadi, Chennai, India
Tea Break: 3.30 pm to 3.45 pm			
Session IV – Synthesis of Materials and Characterization			
Chairperson: Prof. R. Rajasekaran, AVASC, Tiruvannamalai, India			
03.45 pm to 04.45 pm : Oral Presentation by Participants at Auditorium (OP01 – OP06) and Physics Lecture Hall-1 (OP07-OP12)			
04.45 pm to 05.30 pm : Poster Presentation by Participants (PO001-PO090)			

Day - 2 (21.02.2020)
Registration: 8.30am to 9.00am

Talk	Time	Speakers name	Institution
Keynote Lectures at Auditorium			
Chairperson: Prof. G. Anbalagan, University of Madras, Chennai, India			
Keynote Lecture-3	9.00 am to 9.40 am	Prof. R. Jayavel	Anna University, India
Keynote Lecture-4	9.40 am to 10.20 am	Prof. G. Ravi	Alagappa University, India
Tea Break: 10.20 pm to 10.30 pm			
Invited Talks at Auditorium			
Session V – Characterization Techniques			
Chairperson: Prof. G. Ravi, Alagappa University, Karaikudi, India			
Invited Talk-9	10.30 am to 10.55 am	Dr. N. Vijayan	NPL, New Delhi, India
Invited Talk-10	10.55 am to 11.20 am	Dr. K. Gunasekaran	University of Madras, India
Invited Talk-11	11.20 am to 11.45 am	Dr. C. Ramachandra Raja	GAC, Kumbakonam, India
Invited Talk-12	11.45 am to 12.10 am	Dr. G. Anbalagan	University of Madras, India
Invited Talks at Physics Lecture Hall-1			
Session VI – Material Synthesis, Modeling and Simulations			
Chairperson: Prof. D. Rajan Babu, VIT, Vellore, India			
Invited Talk-13	10.30 am to 10.50 am	Dr. M. Srinivasan	SSN College of Engg., India
Invited Talk-14	10.50 am to 11.10 am	Dr. L. Saravanan	National University of Tainan, Taiwan
Invited Talk-15	11.10 am to 11.30 am	Dr. S. Harikrishna Etti	Bharathiar University, India
Invited Talk-16	11.30 am to 11.50 am	Dr. V. Nirmal Kumar	JAXA, Japan (Skype)
Invited Talk-17	11.50 am to 12.10 pm	Dr. T. S. Renugadevi	WCC, Chennai, India
12.10 am to 01.10 pm : Oral Presentation by Participants at Auditorium (OP13 – OP18) and Physics Lecture Hall-1 (OP19 – OP27)			
Lunch: 1.10 pm to 1.55 pm			
Invited Talks at Auditorium			
Session VII – Synthesis of Novel Materials			
Chairperson: Dr. K. Gunasekaran, University of Madras, India			
Invited Talk-18	01.55 pm to 02.20 pm	Dr. D. Rajan Babu	VIT, Vellore, India
Invited Talk-19	02.20 pm to 02.45 pm	Dr. M. Arivanandhan	Anna University, India
Invited Talk-20	02.45 pm to 03.05 pm	Dr. S. Sudhakar	CECRI, Karaikudi, India
Invited Talk-21	03.05 pm to 03.30 pm	Dr. C. Vedhi	VOC College, India
Invited Talks at Physics Lecture Hall-1			
Session VIII – Spectroscopy and Other methods of Materials Characterization			
Chairperson: Dr. C. Ramachandra Raja, GAC, Kumbakonam, India			
Invited Talk-22	01.55 pm to 02.15 pm	Dr. R. Selvaraju	Annamalai University, India
Invited Talk-23	02.15 pm to 02.35 pm	Dr. V. Manimuthu	Southern University of Science and Technology, China
Invited Talk-24	02.35 pm to 02.55 pm	Dr. S. Karthikeyan	DAGAC, Viyasarjadi, Chennai, India
Invited Talk-25	02.55 pm to 03.15 pm	Dr. Y. Sasikumar	Tianjin University of Technology, China
Invited Talk-26	03.15 pm to 03.35 pm	Dr. S. Karthikeyan	MCC, Chennai, India
Tea Break: 3.35 pm to 3.45 pm			
03.45 pm to 04.30 pm: Poster Presentation by Participants (PO091-PO195)			
VALEDICTORY FUNCTION (4.30 pm to 5.30 pm)			

**International Conference on Advanced Materials for Energy and
Environmental Applications (ICAMEA-2020)**

20-02-2020 & 21-02-2020

List of Participants

Sl. No	Name of the Participants	Institution	Category
1	Prof. P. Ramasamy	SSN Institutions, Chennai-603110,	Plenary talk
2	Prof. Jiban Podder	Department of Physics, Bangladesh University of Engineering and Technology, Dhaka-1000,	Plenary Talk
3	Prof. M. N. Ponnusamy	University of Madras, Madras	Keynote Speaker
4	Prof. D. Velmurugan	SRM Institute of Science and Technology, Kattankulathur	Keynote Speaker
5	Prof. R. Jayavel	Anna University, Chennai	Keynote Speaker
6	Prof. G. Ravi	Alagappa University, Karaikudi	Keynote Speaker
7	Prof. P. Murugakoothan	C. Kandaswami Naidu College for Men, Anna Nagar, Chennai	Invited Speaker
8	Prof. R. Krishna	Centre For Bioinformatics, School of Life Sciences, Pondicherry University	Invited Speaker
9	Dr. S. Sakthivel	International Advanced Research Centre for powder metallurgy and New materials, Balapur PO, Hyderabad	Invited Speaker
10	Dr. R. Navamathavan	School of Advanced Sciences, Vellore Institute of Technology(VIT), Chennai	Invited Speaker
11	Dr. Muthu Senthil Pandiyan	SSN Institutions, Chennai-603110,	Invited Speaker
12	Dr. R. Ramesh Babu	Bharathidasan University, Tiruchirappalli	Invited Speaker
13	Dr. G. Poongodi	Quaid-E-Millath Government College for Women.Chennai	Invited Speaker
14	Dr. M. Karl Chinnu	Dr. Ambedkar Government Arts College,Chennai	Invited Speaker
15	Dr. N. Vijayan	CSIR-National Physical Laboratory, Dr KS Krishnan Marg, New Delhi	Invited Speaker
16	Dr. C. Ramachandra Raja	Government Arts College (Autonomous), Kumbakonam	Invited Speaker
17	Dr. M. Srinivasan	SSN Institutions, Chennai-603110,	Invited Speaker
18	Prof. G. Anbalagan	Department of Nuclear Physics, University of Madras, Chennai	Invited Speaker
19	Dr. M. Arivanandhan	Centre for Nanoscience and Technology, Anna University, Chennai	Invited Speaker
20	Dr. L. Saravanan	National Chin-Yi University, Taichung 41170, Taiwan	Invited Speaker

21	Dr. S. Harikrishna Etti	Bharathiar University, Coimbatore	Invited Speaker
22	Prof. D. Rajan Babu	VIT, Vellore	Invited Speaker
23	Dr. S. Sudhakar	CSIR-Central Electrochemical Research Institute (CECRI), Karaikudi	Invited Speaker
24	Dr. C. Vedhi	V. O. Chidambaram College, Tuticorin	Invited Speaker
25	Dr. R. Selvaraju	Dept. Physics, FEAT, Annamalai University, Chidambaram	Invited Speaker
26	Dr. V. Manumuthu	Southern University of Science and Technology, Shenzhen, China	Invited Speaker
27	Dr. S. Karthikeyan	Madras Christian College, Tambaram East, Chennai	Invited Speaker
28	Dr. G. Rajarajan	Department of Chemistry, Annamalai University, Annamalainagar	Faculty
29	Dr. S. Senthil Kumar	Department of Chemistry, Annamalai University, Annamalai Nagar	Faculty
30	Ms. P. Punitha	Department of Chemistry, Govt. Polytechnic College, Korukkai	Faculty
31	Dr. T. Manivasagam	Dept of Biochemistry and Biotech., Annamalai University, Annamalai Nagar	Faculty
32	Dr. T. Alagesan	Department of Physics, Presidency College, Chennai	Faculty
33	Ms. J. Thilagavathi	Jerusalem College of Engineering (Autonomous), Chennai	Faculty
34	Dr. A. Sekar	Department of Physics, Presidency College, Chennai	Faculty
35	Dr. A. Mahalingam	Anna University, Chennai	Faculty
36	Dr. A. Uthayakumar	Department of Physics, Presidency College, Chennai	Faculty
37	Dr. R. Suja	Thiru.A.Govindasamy Government Arts College, Tindivanam	Faculty
38	Dr. Vijayalakshmi Sanyal	Thiru.A.Govindasamy Government Arts College, Tindivanam	Faculty
39	Dr. A. Justin Thenmozhi	Dept of Biochemistry and Biotech., Annamalai University, Annamalai Nagar	Faculty
40	Dr. M. Senthil Kumar	Department of Physics, Govt. Arts College, Kumbakonam	Faculty
41	Dr. S. Sivakumar	Department of Physics, Govt. Arts College, Salem-07	Faculty
42	Dr. S. Thirumaran	Department of Chemistry, Annamalai University, Annamalainagar	Faculty
43	Dr. S. Kalpana	Dept of Physics, AMET University, Kanathur, Chennai	Faculty

44	Dr. T. S. Senthil	Dept. of Physics, Erode Sengunthar Engineering College, Erode	Faculty
45	Dr. C. Shiyamala	Dept. of Chemistry, Thiru Kolanjiappar Government Arts College	Faculty
46	Dr. T. Balasankar	Chemistry Section, FEAT, Annamalai University, Annamalinagar	Faculty
47	Mr. P. Kannan	Sri Moogambigai Arts and Science College (Women), Dharmapuri	Faculty
48	Dr. A Julie	Department of Physics, Jawaharlal Nehru College for Women, Pali	Faculty
49	Dr. R. Manivasagaperumal	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
50	Dr. P. Lakshmanan	Department of Chemistry, Annamalai University, Annamalinagar	Faculty
51	Dr. S. Saravanan	Department of Physics, D.G Government Arts College, Mayiladuthurai	Faculty
52	Dr. S. M. Anuradha	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
53	Dr. M. Amudha	Department of Physics, Presidency College, Chennai	Faculty
54	Dr. T. Sivanesan	Department of Physics, Pachayappa's College, Chennai	Faculty
55	Dr. J. Balaji	Department of Physics, University College of Engineering: Panruti	Faculty
56	Dr. K. B. Renuka Devi	Rajiv Gandhi Engineering College, Puducherry	Faculty
57	Dr. R. Vijayaprasath	Physics, Manakula Vinayagar Institute of Technology, Puducherry	Faculty
58	Dr. K. Anand	Physics, Manakula Vinayagar Institute of Technology, Puducherry	Faculty
59	Dr. S. Srinivasan	Department of Chemistry, Annamalai University, Annamalai Nagar	Faculty
60	Dr. V. Saravanakannan	Maruthu Pandiyar College, Thanjavur	Faculty
61	Dr. H. Anandhalakshmi	Department of Chemistry, Annamalai University, Annamalai Nagar	Faculty
62	Ms. K. Arulvani	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
63	Ms. S. Gunavathi	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
64	Dr. T. Ravishankar	Department of Physics, Government Arts College for Men, Nandanam	Faculty
65	Dr. J. Balaji	Department of Physics, Government Arts College for Men, Nandanam	Faculty
66	Dr. K. Ponnarasi	Department of Physics, Pachaiyappa's College, Chennai-30	Faculty

67	Dr. R. Rajasekaran	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
68	Dr. R. Mohanambal	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
69	Dr. A. Loganathan	Department of Physics, Annamalai University, Annamalai Nagar	Faculty
70	Dr. P. Chinnababu	Department of Physics, Government Arts College, Dharmapuri	Faculty
71	Dr. S. Senthil	Dept of Physics, St.Peters College of Engineering and Technology, Chennai	Faculty
72	Dr. V. Ratchagar	Dept of Physics, St.Peters College of Engineering and Technology, Chennai	Faculty
73	Dr. S. Pazhamalai	Department of Chemistry, Annamalai University, Annamalai nagar	Faculty
74	Dr. G. M. Alagu Lakshmanan	Dept. Botany, Thiru Kolanjiappar Govt. Arts College, Vriddhachalam	Faculty
75	Dr. K. Dhanaraj	Department of Physics, Arunai Engineering College, Tiruvannamalai	Faculty
76	Dr. G. Suresh	Dept. of Physics, Aarupadai Veedu Institute of Technology, Vinayaka Mission's Res. Foundation, Chennai	Faculty
77	Dr. G. Vijayakumari	Department of Physics, Annamalai University, Chidambaram	Faculty
78	Dr. M. Shenbagam	Department of Physics, Annamalai University, Chidambaram	Faculty
79	Dr. J. Chakkaravarthy	Dept. of Chemistry, Periyar Arts College, Cuddalore	Faculty
80	Dr. R. Thilak Kumar	Dept. of Physics, Periyar Arts College, Cuddalore	Faculty
81	Dr. K. Sathish	Dept of Physics, Swami Dayananda College of Arts & Science, Manjakkudi	Faculty
82	Dr. Earnest Jayakumar	Department of Physics, Govt. Polytechnic College, Cheyyar	Faculty
83	Dr. R. Balasubramaniyan	Faculty of Marine Sciences, Annamalai University, Parangipettai	Faculty
84	Dr. Priya	Thiru Kolanjiappar Government Arts College, Vriddhachalam	Faculty
85	Dr. H. Manikandan	Dept. of Chemistry, Annamalai University, Chidambaram	Faculty
86	Ms. S. Kalpana	Arignar Anna Government Arts College, Villupuram	Scholar
87	Mr. A.N.Vigneshwaran	KhadirMohideen College, Adirampattinam	Scholar
88	Mr. M. Durairaj	Department of Physics, Mahendra Engineering College, Namakkal	Scholar

89	Mr. S. Renuga	Bhaktavatsalam Memorial College for Women, Korattur, Chennai,	Scholar
90	Ms. K. Leelavathi	Government Arts College, C-Mutlur, Chidambaram	Scholar
91	Mr. S. Varatharajan	Department of Physics, Govt. Arts College, Kumbakonam	Scholar
92	Mr. P. Saminathan	Department of Physics, Govt. Arts College, Kumbakonam	Scholar
93	Mr. K. Saravanan	Dept. of Physics, AVS Engineering College, Salem	Scholar
94	Ms. S. Kiruthiga	Department of Physics ,Government Arts College, Chidambaram	Scholar
95	Ms. K. P. Sridevi	Department of Physics, Sri Kailash Women's College, Thalaivasal	Scholar
96	Ms. R. Yamini	Department of Physics, Government college for women(A), Kumbakonam	Scholar
97	Ms. T. Kalaiarasi	Department of Physics, Government college for women(A), Kumbakonam	Scholar
98	Ms. J. Sherin Percy Prema Leela	Dept. of ECE, JBAS College for Women, Chennai,	Scholar
99	Mr. R. Paranthaman	Govt. Arts College, Kumbakonam	Scholar
100	Mr. A. Mohammedali	Department of Physics, Annamalai University, Chidambaram	Scholar
101	Ms. N.Jayasaranya	Department of Physics, Annamalai University, Chidambaram	Scholar
102	Mr. G. Anbu	SSN Institutions, Chennai-603110,	Scholar
103	Mr. G. Anguraj	Dr. R. K. Shanmugam College of Arts and Science, Indili, Kallakurichi	Scholar
104	Ms. S. Sathiya	PG and Research Department of Physics, Government Arts College	Scholar
105	Ms. G. Gokila	PG and Research Department of Physics, Government Arts College	Scholar
106	Mr. R. Kesavamoorthi	PG and Research Department of Physics, Government Arts College	Scholar
107	Ms. P. Sangeetha	Department of Physics, Annamalai University, Annamalai Nagar	Scholar
108	Ms. N. Jhansi	Department of Physics, Government Arts College, Tiruvannamalai	Scholar
109	Mr. R. Raman	Department of Physics, Government Arts College, Tiruvannamalai	Scholar
110	Ms. S. Megala	Department of Physics, Arignar Anna Government Arts College, Villupuram-	Scholar

111	Ms. S. Praveena Sundari	Department of Physics, Arignar Anna Government Arts College, Villupuram-	Scholar
112	Mr. T. Jayakumar	PG and Research Department of Physics, Government Arts College	Scholar
113	Mr. C. Saravanan	Department of Physics, Karunya University, Karunya Nagar, Coimbatore	Scholar
114	Mr. S. Kandhan	Department of Physics, Presidency College, Chennai	Scholar
115	Ms. B. Anitha	Engineering Physics, Annamalai University, Annamalainagar	Scholar
116	Mr. D. Rajendiran	Dept of Physics, Shanmuga Industries Arts and Science College, Tiruvanamalai	Scholar
117	Mr. T. Manimaran	Dept of Physics, Thiru.Vi.Ka.Govt. Arts College, Tiruvarur	Scholar
118	Ms. S. Bhuvaneswari	Dept of Physics, Thiru.Vi.Ka.Govt. Arts College, Tiruvarur	Scholar
119	Ms. R. S. Abina Shiny	Dept of Physics, Thiru.Vi.Ka.Govt. Arts College, Tiruvarur	Scholar
120	Mr. T. Suresh	Department of Physics, Government Arts College, Tiruvannamalai	Scholar
121	Mr. G. Rajesh	Department of Physics, Annamalai University, Annamalai Nagar	Scholar
122	Ms. M. Niranjana	Department of Physics, Annamalai University, Annamalai Nagar	Scholar
123	Mr. A Govindhasamy	Department of Physics, Periyar University, Salem	Scholar
124	Ms. P. Vijaya	Dept. of Chemistry, Thiru Kolanjiappar Government Arts College	Scholar
125	Ms. A. Anitha	Department of Physics, Annamalai University, Annamalai Nagar	Scholar
126	Ms. S. Chitra	Department of Physics, Annamalai University, Annamalainagar	Scholar
127	Ms. S. Pushpa	Department of Physics, Annamalai University, Annamalainagar	Scholar
128	Mr. S. Visweswaran	Department of Physics, Annamalai University, Chidambaram	Scholar
129	Ms. C. Jayakodi	Department of Chemistry, Annamalai University, Annamalai nagar	Scholar
130	Ms. M. Vijayasri	Dept of Chemistry, Annamalai University, Annamalai nagar	Scholar
131	Ms. J. Anudeebhana	Dept of Chemistry, Annamalai University, Annamalai nagar	Scholar
132	Ms. S. Thilagavathy	Dept of Chemistry, Annamalai University, Annamalai nagar	Scholar

133	Mr. M. Anto Milet Xavier	PG & Research Dept. of Physics, Pachaiyappa's College, Chennai	Scholar
134	Mr. K. Kathiresan	PG & Research Dept. of Physics, Pachaiyappa's College, Chennai	Scholar
135	Mr. B. Seenuvasan	PG & Research Dept. of Physics, Pachaiyappa's College, Chennai	Scholar
136	Ms. D. Sivaranjani	PG & Research Dept. of Physics, Pachaiyappa's College, Chennai	Scholar
137	Mr. L. Stanly Kennin Xavier	PG & Research Dept. of Physics, Pachaiyappa's College, Chennai	Scholar
138	Mr. C. Suresh Kumar	Dept of Physics, Thiruvalluvar College of Engg and Tech., Vandavasi	Scholar
139	Mr. M. Harirajan	Department of Physics, Annamalai University, Annamalai nagar	Scholar
140	Ms. S. K. Lilly Mary	Department of Physics, Annamalai University, Chidambaram	Scholar
141	Ms. V. Menaka	Department of Physics, Annamalai University, Chidambaram	Scholar
142	Ms. A. Meena	Department of Physics, Annamalai University, Chidambaram	Scholar
143	Mr. K. Ashok Kumar	Department of Physics, Annamalai University, Annamalai Nagar	Scholar
144	Mr. R. Balamurugan	Dept. of Physics, Periyar Arts College, Cuddalore	Scholar
145	Mr. P. Kathiravan	Dept. of Physics, Periyar Arts College, Cuddalore	Scholar
146	Ms. A. Deeba	Department of Physics, Annamalai University, Chidambaram	Scholar
147	Ms. J. Sivabharathi	Annamalai University, Chidambaram	Scholar
148	Ms. R. Sangeetha	Dept. of Physics, Govt. Arts College, Ariyalur	Scholar
149	Mr. M. Sarguru	Dept. of Physics, Periyar Arts College, Cuddalore	Scholar
150	Mr. V. Natarajan	Dept. of Physics, Periyar Arts College, Cuddalore	Scholar
151	Ms. R. Sumithra	Dept. of Physics, Thiru.Vi.Ka.Govt. Arts College, Tiruvarur	Scholar
152	Ms. K. Reka	Dept. of Physics, Thiru.Vi.Ka.Govt. Arts College, Tiruvarur	Scholar
153	Mr. V. Rajesh	Dept. of Phys. Thiru Kolanjiappar Govt. Arts College, Vriddhachalam	Scholar
154	Mr. G. Vikram Raj	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student

155	Mr. S. Asaithambi	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
156	Mr. N. Tamil Selvan	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
157	Mr. K. Agathiyan	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
158	Ms. S. Jaya	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
159	Ms. M. Yuvasri	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
160	Ms. G. Ruba	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
161	Mr. R. Sukumar	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
162	Ms. A Girija	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
163	Ms. S. Anusuya	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
164	Ms. S. Sangeetha	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
165	Ms. G. Keerthika	Dept. of Physics, Govt. Arts College, Ariyalur	PG Student
166	Ms. P. Sindhu	Dept. of Phy., Govt College for Women, Kumbakonam	PG Student
167	Ms. M. Roja	Dept. of Phy., Govt College for Women, Kumbakonam	PG Student
168	Ms. V. Vanmathi	Dept. of Phy., Govt College for Women, Kumbakonam	PG Student
169	Ms. C. Aruna	Dept. of Phy., Govt College for Women, Kumbakonam	PG Student
170	Ms. K.R. Lakshmi Priya	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
171	Ms. D. Abinaya	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
172	Ms. R. Kamali	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
173	Ms. K. Jayasri	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
174	Ms. M. Ranjitha	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
175	Ms. R. Sharmila	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
176	Ms. V. Keerthiga	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
177	Ms. A. Dhanushrekha	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
178	Ms. S. Sivasankari	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student

179	Ms. S. Anbulakshmi	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
180	Ms. K. Saranya	Dept. of Physics, Aries Arts and Science College, Karunkuzhi	PG Student
181	Ms. P. Preethi	Bhaktavatsalam Memorial College for Women, Korattur, Chennai,	PG Student
182	Ms. Thabasumunisa	Bhaktavatsalam Memorial College for Women, Korattur, Chennai,	PG Student
183	Ms. R. Jainy	Bhaktavatsalam Memorial College for Women, Korattur, Chennai,	PG Student
184	Mr. V. Thirupathi	Det. Of Physics, Govt. Arts College, Dharmapuri	PG Student
185	Ms. M. Arthi	Dept. of Physics, Sri Kailash Women's College	PG Student
186	Ms. R. Tamilpriya	Dept. of Physics, Sri Kailash Women's College	PG Student
187	Ms. R. Selvabharathi	Dept. of Physics, Sri Kailash Women's College	PG Student
188	Ms. A. Abinaya	Dept. of Physics, Sri Kailash Women's College	PG Student
189	Ms. K. Vaithegi	Dept. of Physics, Sri Kailash Women's College	PG Student
190	Ms. B. Vijayalakshmi	Dept. of Physics, Sri Kailash Women's College	PG Student
191	Ms. V. Poonguzhali	Dept. of Physics, Arignar Anna Government Arts College, Villupuram	PG Student

Photographs of ICAMEA-2020



Prof. P. Ramasamy is delivering the Inaugural Address.



Prof. Jiban Podder from Bangladesh is delivering the Keynote Address as a special guest.



Prof. R. Jayavel from Anna University is delivering the Keynote Address in the inaugural function



Prof. P. Ramasamy is releasing the Proceedings of the ICAMEA-2022 along with Prof. G. Rajavel -Principal, TKGAC and Prof. Jiban Podder.



Keynote Speakers, Special Guests, Principal, HOD and the Convener are on the stage with the Proceedings of ICAMEA-2020



As a part of the event, an issue of Ariviyal Matrum Thozhil Nutpa Aarayichi Sanjigai in Tamil Language has been released



A view of Participants and Audience



Prof. Jiban Podder is delivering his Technical Speech on Day-1



Prof. M. N. Ponnusamy is delivering his technical Speech on Day -1



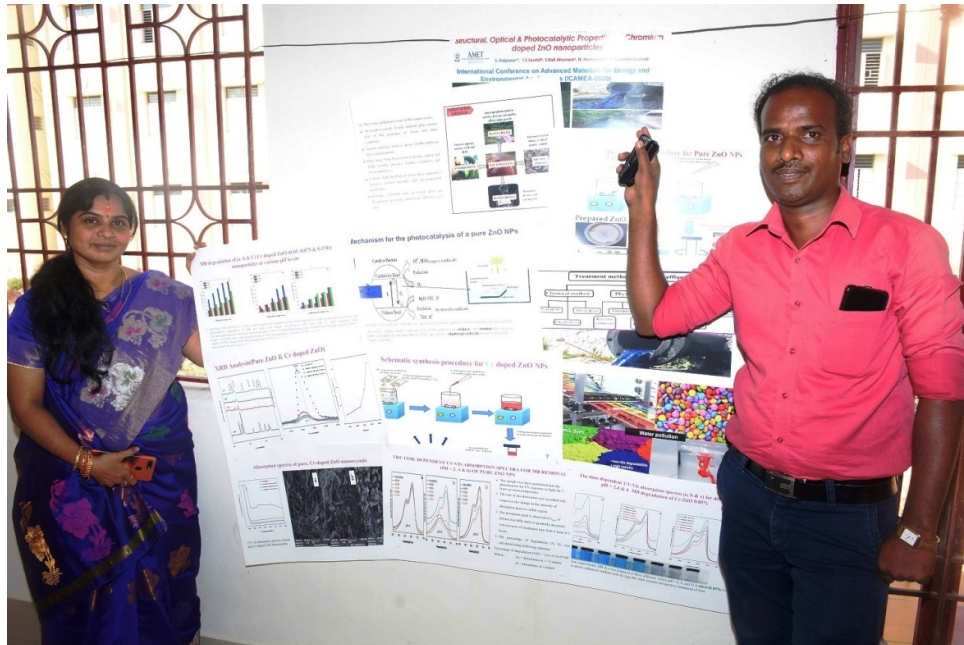
A participant presenting his poster on Day-1



Prof. R. Jayavel is delivering his Technical Speech on Day -2



Dr. C. Ramachandra Raja is giving his Invited Talk on Day -2



Participants Presenting their Posters in Day-2



An Invited Speaker Prof. D. Rajan Babu is delivering his talk in Day-2



Prof. R. Jayavel is delivering his valedictory Address and Dr. N. Vijayan from NPL a special guest on the stage.



Prof. R. Jayavel is giving the Shield to the participant who the best oral Presentation award



Prof. R. Jayavel is giving the Shield to the participant who won the best Poster Presentation award



A Group Photo of the organizing committee and Participants with Special Guests

நீட்சிகளில் செடிகள் விநியோகம்

விலை எவ்வளவு?

தோட்டக்கலை நுழைவுப் பள்ளிகளைக் கட்டி, மாதுளை, புளி, ஐயப்பிச்சை, தும்பை போன்ற பாரம்பரிய பழக்கலை, கொடுக்காப்பளி, முத்திரி, சவுக்கு போன்ற மரங்களையும், தாளி போன்ற பூச்செடிகளையும் வழங்கப்பட்டு வருகின்றன. செடிகள் தவிர பல்வேறு பழக்கலை தோட்டக்கலை பயிற்சியை நடத்துவதற்காக உற்பத்தி செய்கிற

0 அழகு செடிகள் ரூ.5 முதல்
1 புளியை மரச்செடிகள் ரூ.10
2 பழச்செடிகள் ரூ.8 முதல் ரூ.60
3 செடிகள் ரூ.8 முதல் ரூ.30 வரை

4. பண்டுகளை மற்றும் திருமண நிகழ்ச்சிகளின் போது
5. அத்தினத்தின் சிறப்பை
6. நினைவு கூறும் வகையில்
7. நிகழ்ச்சிக்கு வரும் விருந்தினர்

னர்களுக்கு மரக்கன்றுகள், பழக்கன்றுகள் வழங்குவது பிரபலமடைந்து வருகிறது. இதிலேயே விழாக்களுக்கு வரும் விருந்தினர்களுக்கு மரக்கன்றுகள், காய்கறி நாற்றுக்களும் பழச்செடிகள் தரும் பண்டகடைகளுக்குமே விற்பனையை மேற்கொண்டு தோட்டக்கலைத் துறை விழாக்கள், பண்டுகளை மற்றும் திருமண நிகழ்ச்சிகளுக்கு தோட்டக்கலை சார்ந்த நடவடிக்கைகள், பழச்செடிகளை தரமானதாகவும் குறைந்த விலை விலும் வழங்கி வருகிறது.

கடலூர் மாவட்டத்தில் விருத்தாசலம் மற்றும் நெல்வேலியில் அரசு தோட்டக்கலை பண்ணை இயங்கி வருகிறது. இத்திட்டத்தின் மூலம் கடலூர் மாவட்டத்தில் உள்ள நெல்வேலி மற்

றும் விருத்தாசலம் அரசு தோட்டக்கலை பண்ணைகளில் இதுவரை இந்த ஆண்டு மட்டும் 7 ஆயிரம் மரக்கன்றுகள், பழக்கன்றுகள் கப்பிசெய்து குறைந்த விலையில் விநியோகம் செய்யப்பட்டுள்ளன.

எனவே செடிகள் பெற விரும்பும் பொதுமக்கள் அரசு தோட்டக்கலைப் பண்ணைகளை நேரடியாக அணுகி அல்லது தங்களது வட்டார அளவில் செயல்படும் தோட்டக்கலை உதவி இயக்குனர் அலுவலகத்தை அல்லது மாவட்ட அளவிலான தோட்டக்கலை துறை இயக்குனர் அலுவலகத்தை இத்திட்டத்தின் கீழ் அணுகி பயனடைய கேட்டுக் கொள்ளப்படுகிறது என தெரிவித்துள்ளார்.

மாணவி மாயம்

விருத்தாசலம், மார்ச் 5: விருத்தாசலம் அடுத்த கருவேப்பிலங்குநிச்சி அருகே உள்ள ராஜேந்திர பட்டினம் கிராமத்தைச் சேர்ந்தவர் அழிவழிகள் மகன் கிருத்திகா (17). இவர் நர்சிங் படித்து வந்தார். இதிலேயே கடந்த 1ம் தேதி கல்லூரிக்கு சென்று விட்டு வருவதாக கூறி வீட்டை விட்டு சென்றவர் திரும்ப வீடுவரவில்லை. கல்லூரிக்கு சென்று விசாரித்தபோது கல்லூரிக்கும் வரவில்லை என கல்லூரி நிர்வாகம் தெரிவித்தது. இதையடுத்து அவரது தோழிகள், உறவினர்கள் விடுகள் உள்ளிட்ட பலரது வீடுகளில் தேடிப்படும் அவர் கிடைக்கவில்லை. இது குறித்து கிருத்திகாவின் தந்தை அழிவழிகள் கொடுத்த புகாரின்பேரில் கருவேப்பிலங்குநிச்சி போலீசார் வழக்கு பதிவு செய்து விசாரணை நடத்தி வருகின்றனர்.

சுற்றுப்புறச்சூழல் பயன்பாடு பன்னாட்டு கருத்தரங்கம்

விருத்தாசலம், மார்ச் 5: விருத்தாசலம் அரசு கொளஞ்சியப்பர் கலைக்கல்லூரியில், இந்திய அறிவியல் தொழில்நுட்ப அமைப்பு இளவேனில், முதுகலை மற்றும் ஆராய்ச்சி இயற்பியல் துறை சார்பில் ஆற்றல் மற்றும் சுற்றுப்புறச்சூழல் பயன்பாடு சார்ந்த சிறப்பு வாங்கிப் பொருட்கள் என்ற தலைப்பில் பன்னாட்டு கருத்தரங்கம் நடைபெற்றது.

கல்லூரி முதல்வர் ராஜவேல் தலைமைநாயகினார் துறைத்தலைவர் பேராசிரியர் முகுந்தகுமாரி, கருத்தரங்க ஒழுங்கிணைப்பாளர்கள் ஆனந்தன், சண்முகசுந்தரம் ஆகியோர் முன்னிலை வகித்தனர். வங்குதேசம், சீனா, தைவான், கொரியா மற்றும் ஜப்பான் மற்றும் நாட்டின்

பல்வேறு மாநிலங்களிலிருந்தும் 255 ஆய்வுக்கட்டுரை கருக்கங்கள் சமர்ப்பிக்கப்பட்டு விவாதிக்கப்பட்டன.

பல்வேறு கல்லூரி, பல்கலைக்கழகம் மற்றும் ஆராய்ச்சி திறவணக்களிலிருந்து இயற்பியல் அறிஞர்கள், ஆராய்ச்சி மற்றும் முதுகலை மாணவர்கள் பங்கேற்று தங்கள் ஆராய்ச்சியை பகிர்த்தனர். துறை சார்ந்த அனைத்து பேராசிரியர்கள் மற்றும் மாணவர்கள் இக்கருத்தரங்கத்தில் கலந்துகொண்டனர்.

கருத்தரங்கை பேராசிரியர்கள் ராமசாமி, ஜிப்பான் போடர், பொன்னுசாமி, வேல்முருகன், ஜெயவேல், கல்லூரியின் முன்னாள் முதல்வர்கள் ராஜசேகரன் மற்றும் வேறு ஆகியோர் கலந்துகொண்டு சிறப்பித்தனர்.

சாத்தியம்-மன்னம்பாடி சாலையில்