

DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE (Autonomous) TIRUCHIRAPALLI - 620002

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REPORT		
Activity	Physics Association Inauguration (2022-23)	
Date & Time	01-08-2022 & 11:30 am - 01:00 pm (IST)	
Topic(s)	"PHYSICS OF IMPOSSIBLE"	
Platform/ venue	Offline mode APJ Abdul Kalam Hall (PH6)	
Resource Person(s)	Dr. K. JEGANATHAN, FASCh Professor and Director Centre for Nanoscience and Nanotechnology Department of Physics, RUSA - Coordinator Bharathidasan University Tiruchirappalli-620 024	
Total no. of Participants	250	
Outcome of the Programme	 Students understand the evolution of science where scientists a century ago considered what we use today as impossible to the students in a very reasonable manner by providing several examples in real life. Students learnt that the significance of perpetual motion which is forbidden according to the laws of physics but led the origin of thermodynamics. 	

* Documents enclosed

HEAD, DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI -

Physics Association President



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INAUGURATION OF PHYSICS ASSOCIATION

Physics of Impossible

Date: 1st August 2022

Time : 11.30 am

Venue : APJ Abdul Kalam Hall (PH6)

11:30 am

INAUGURATION

Prayer Song

Welcome Address

Felicitation

Introducing the Chief Guest

Chief Guest Address

Vote of Thanks 12:55 pm Dr. R. JERALD VIJAY

Association President, Department of Physics

Dr. A. N. PAUL ANGELO

Dean, School of Physical Sciences St. Joseph's College, Tiruchirappalli

Dr. N. RAVI

Head, Department of Physics

Dr. K. JEGANATHAN, FASCh

Professor and Director Centre for Nanoscience and Nanotechnology Department of Physics, RUSA - Coordinator

Bharathidasan University Tiruchirappalli-620 024

Dr. M. LAWRENCE

Association Vice-President, Department of Physics

Physics Association Inauguration

Report

The Inauguration of the Physics Association for the academic year 2022-23 was held on August 1st, 2022 at APJ Hall (department of Physics) between 11.30 AM and 1.00 PM. The faculty and students of both shift-1 and shift-2 of the department of Physics participated in the programme. Dr. K. Jeganathan, Director, Centre for nanoscience and nanotechnology, Professor, Department of Physics and RUSA- Coordinator, Bharathidasan University was the chief guest of the day.

The meeting began with a prayer song followed by Tamil Thai Valthu. Dr. R. Jerald Vijay, Assistant Professor of Physics welcomed the gathering, The student office bearers of the Physics Association namely Mr. Prasanth (II MSc Shift 1), Mr. Vishnupriyan (II MSc Shift 2) Mr. Stephen Roy (III BSc A Shift 1), Mr. Michael Jackson (III BSc B Shift 1), Mr. V. Manoj Kumar (III BSc A Shift 2) and Mr. B. Madeswar (III BSc B Shift 2) were introduced to the gathering by Dr. S. Lourdraj, Coordinator, Department of Physics. Dr. A. N. Paul Angelo, Dean School of Physical Sciences offered his felicitations. Dr. N. Ravi, Head, Department of Physics introduced the Chief guest of the programme. The Chief guest was honored with a memento presented by Dr. A.N. Paul Angelo and with a shawl adorned by Dr. N. Ravi.

Dr. K. Jeganathan delivered the chief guest address on the title "Physics of Impossible". He, introduced the evolution of science where scientists a century ago considered what we use today as impossible to the students in a very understandable manner by providing several examples in real life. He listed the various interesting predictions in future like teleportation, travelling faster than light, invisibility, parallel universe and so on which appear impossible now but, in a decade, or two will be a reality. He also pointed out the significance of perpetual motion which is forbidden according to the laws of physics but led the origin of thermodynamics.

Dr. M. Lawrence, Vice President, Physics Association and Assistant professor of Physics thanked everyone who supported the for the success of the inaugural function. Mr. Afraz, student, III BSc A shift 1 did the master of ceremony for the entire programme. The meeting was concluded with the national anthem.

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TIRUCHIRAPPALLI

	STUI	DENTS NAME	LIST
Department PH	IYSICS		
Class M Sc Physics-A Batch 2022			

S.no	Register Number	Name	
1	22PPH101	J. JOHN PAUL 350hm Paul	
2	22PPH102	ADITHIYAN M Lo. 2392	
3	22PPH103	INFANT SAMUEL A AND I	
4	22PPH104	ANISH ANITIN P J	
5	22PPH105	JOSLINE NISHA B Joslin Nichel	
6	22PPH106	DELPHINE.B B. Delphine	
7	22PPH107	A J YOGESH AMALAN	
8	22PPH108	ISAAC EMMANUEL J	
9	22PPH109	GIFTUS THOMAS PHILOMINE F	
10	22PPH110	XAVIER JERLIN AKSHAYA T, 1	
11	22PPH111	AUSTLIN BS B.S. Lutter	
12	22PPH112	JAYARAM K. Jayaraw	
13	22PPH113	GOKULS of. Goh.	
14	22PPH114	GANAPATHY'S Proton	
15	22PPH115	SMAILAPRINCY M M-Smailbyrin	
16	22PPH116	LILLY JS OT. Nii	
17	22PPH117	BARATH MJ 31. J. Butt	
18	22PPH118	X JERLIN XAVIOUR	
19	22PPH119	O.Y. BALAJI .O.Y. Bolaji	
20	22PPH120	NAVEEN KUMAR G. Naveer	
21	22PPH121	JONES ARUL A	
22	22PPH122	YASMIN MONICA .A (Somilar	
23	22PPH123	ANBARASANK C.Lobo	
24	22PPH124	JOHNSON L Johnson .	
25	22PPH125	HELEN R Hillen	
26	22PPH126	B.RAJASEKAR	
27	22PPH127	22PPH127 THARANCIA TEENA MARY J J. J. J.	
28	22PPH128	ANCYM drughty.	

STUDENTS NAME LIST		
Department PHYSICS		
Class	B Sc Physics-B Batch 2020	

S.no	Register Number	Name	
1	20UPH203	ABHILASH N	N. Abhilach
2	20UPH205	RUSSO BENAYA D X	
3	20UPH206	DAVIS KEVIN J L X	
4	20UPH208	KAVI RAJ P G	
5	20UPH209	AJAY R	R. Ajay
6	20UPH210	ANTO PEPPIN T	1 0 - 1
7	20UPH211	MARIA IGNESIOUS S	A: 00
8	20UPH212	JOY ALOSHIYAS A	Joy Aloshyu .
9	20UPH213	ANDRUS S	B. Sadruf.
10	20UPH214	JANARDHAN S 🗙	A Company
11	20UPH215	JERIN JEYANTH I	I. Jaim
12	20UPH216	CHRIS PATRICK PIO A	
13	20UPH217	GEORGE BANNI 🗶	
14	20UPH218	SHREYASH KUJUR	duje
15	20UPH219	ADONIS PEO M	M.P.
16	20UPH220	JOSEPH AARON E	Eichary Len
17	20UPH221	SARAVANAN M	M. Spaar agan
18	20UPH222	MANOJ A	J. Land
19	20UPH223	FAAZILS	5. Fil.
20	20UPH224	PREM KUMAR M	m. Dulas
21	20UPH225	AAZHIMUKILAN G	Lexa fight
22	20UPH228	JEGAN LAWRENCE J	5-Jagan downerse.
23	20UPH229	MICHAEL JACKSON A	J- 400 41
24	20UPH230	KISHOREKUMAR S K	S.R. auf
25	20UPH231	CLAMENT ROCH V	V. dament pad
26	20UPH233	PRANAV BALAJI J 🗙	
27	20UPH234	DEVAPRIYAN S ×	
28	20UPH235	TANISHQ RAJA S G X	
29	20UPH236	BHARATHI P	P.Bhuty.
30	20UPH237	AGILAN N	M. Agilan
31	20UPH238		4. Pourt
32	20UPH239	MATHANPRASATH M	M-Morepasser M
33	20UPH240	HARISH RAJA R	R. Harrish Roja
34	20UPH241	THOMAS JABAMALAI RAJ J	Atta lake
35	20UPH242	SOWNDHAR S	S. Sowndhas
36	20UPH243	ARUL STEPHEN A	1. As 1 9-teals
37	20UPH244	GNANAPRAKASH D *	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
38	20UPH245	ARUL I ×	
39	20UPH246	PREM ANAND M X	
40	20UPH247	CYRIL A	D. Cyriso 1
41	20UPH249	ASRAR AHMED	Assentions
42	20UPH250	VINOTH M	MOVIT

	STUDENTS NAME LIST	
Department	PHYSICS	
Class	B Sc Physics-A Batch 2020	

S.no	Register Number	Name	
1	20UPH103	ANTONY JAMES A X	
2	20UPH104	FREDRICK JOEL F	Fredrick Jol. F
3	20UPH105	STEPHEN ROY G	9.5009
4	20UPH108	ROSHAN JOEL K	Rui
5	20UPH109	ALLWIN EDISON K X	
6	20UPH110	SIMON CHRISTOPHER J X	
7	20UPH111	MOSES DINAKAR P X	
8	20UPH112	PATRICK ANTONIO A X	
9	20UPH116	VINUA	
10	20UPH117	JOASH RICKY J	1/11/10
11	20UPH118	AROCKIA AAKASH S	Arocken Alkash
12	20UPH121	LEO JOHNSON S	
13	20UPH122	HARISH R ×	
14	20UPH123	JESVIN ABISHEK L	L. Jesuin Abehula
15	20UPH124	SIVABALAN S x	
16	20UPH125	MADHAN R x	
17	20UPH126	AUSTINRAJ A	Auston Rog Gr. P. Sanjay Kumoor.
18	20UPH127	SANJAY KUMAR G P	Gr.P. Sanjay Kumoor.
19	20UPH129	SESHAIYAN V S	
20	20UPH130	DOJER JENI B	Dojer Gend.
21	20UPH131	DAMIEN MARTIN J	Danier Martin.
22	20UPH132	ANTONY JEROLD A 🔻	
23	20UPH133	ALFRED GENUWIN R S 🗴	
24	20UPH134	DANIELE	Daviel, F
25	20UPH135	AUGUSTIN JOSHUA J	Augusten Joshua
26	20UPH136	KABILAN G X	
27	20UPH137	KRISHNA KUMAR D	
28	20UPH138	JEREMIYAH TITUS J	J. Gerennigol Zita
29	20UPH139	BOOPATHI RAJA T	
30	20UPH140	KISHORE KUMAR T	Kishoes Kumar T
31	20UPH143	ASHWIN A X	
32	20UPH144	SANJAY P x	
33	20UPH145	ARIKARAN G	M. Blows. Borberge.
34	20UPH148	BLAIZE BARBARIGO X	M. Blance. Earbrige.
35	20UPH149	NAVEEN RAJ M S	
36	20UPH150	VISHWARAJ S	Warmer Kon

PHYSICS ASSOCIATION INAGURATION

Student Attendance - shif-II

DATE: 1-08-2022 TIME: 11:30 AM TO 01:00 PM VENUE: APJ Hall

D.No	Name	Signature
20uph501	D. Samyuktha	D. Samyaktha
20UPH534	oh. Devi	1917. Dent
20 UPH 5 3 3	P. Thrisha	P. Thus
20UPH644	G. kanmani	G. learman)
20UPH604	A. SHRUTHI	Ashog:
200PH544	G. Dhana Lakehni	Gr. Denj
20 UPH 518	g. eprocy goy	g. yeary goy
20UPH 509	g. eyeacy goy V. DHARSHINI	V. Hanshrif.
20UPH 528	L'athanor.SA	Cary.
20 UPH 606	A. Marias Florian Zairo	And
20UPH636	M. Siva Subramaniyan	M. sy.
20 UPH629	B. Sarawa Kuman	Biffet
200PH631	P. Vishwa	Pivishura
20UPH617	S. Naveen	At-
20UPH541	K. Jothivel	R. M.
20UPH620	A · YUWARAJ	- Allemanning
200PH646	R. Boopathi	Ri-Roopathy:
20UPH613	A. Rohinth Kuman	J. R.
200PH624.	B. Madheswar	1 September 1
200PH510	Manoj Kelmovi. V	V. næmflue!
200 PH630	GONA SEKAR. O	D.049
20UPA647	Elavaras .5	
200PH 621	Francis Saluth.S	Frank
201P#632	Anunagini. S	Anunagini.S

PHYSICS ASSOCIATION INAGURATION

Student Attendance - shift-11

DATE: 1-08-2022 TIME: 11:30 AM TO 01:00 PM VENUE: APJ Hall

D.No	Name	Signature
20UPH612	I. clamenshya.	2. clamorshya.
20UPH626	M. Mohanavittika.	M. Mohornavi Thika.
20UPH628	A. Nikitha	Statilla
20UPH1610	A. Arokya Hepshiba	A. Hysslubat
20UPH514	A. Porlya Sherin	Therin
200 PH521	J. Kisubhakasan	J. Wouldatalan.
20 UPH 515	M. Thaveur Prakash	M. Taus!
20UPH609	J. Swya Prakash.	J. Owya Probagl.
200PH535	B. Kangi	B.Kgi
ADUPH52T	A. DOMNIC SAVIO	Dividjo
20UPH 537	A. Anto Helvin Raj	A statoreliny
20UPH520	C. J. Joe Squatives Antony.	CITALA
20UPH522	R. Gathish baumar	Tenny & Am
20UPH 519	M. Rithik Rocham	M. Rithil Roshan.
20UPH526	SABISHER	S. Abrahad
20 UPH 542	S.IMRANI NAZIR	S.Dj
20UPH639	G. ARUN KUMAR	G. My
280PH619	k.P. Linguswamy	k. R. ling
20UPH512	B. JAI MANI BHARATHI	B. Zan Weller
20UPH586	U.E. JESWANTHH (The part of Se
20 UPH 547	Vectaliani. G.	60 14
20UPH645	AAKASH.M	Dent Leist M. Aburuful
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INAUGURATION OF PHYSICS ASSOCIATION

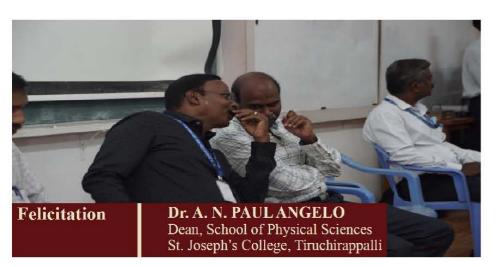
Date: 1st August 2022

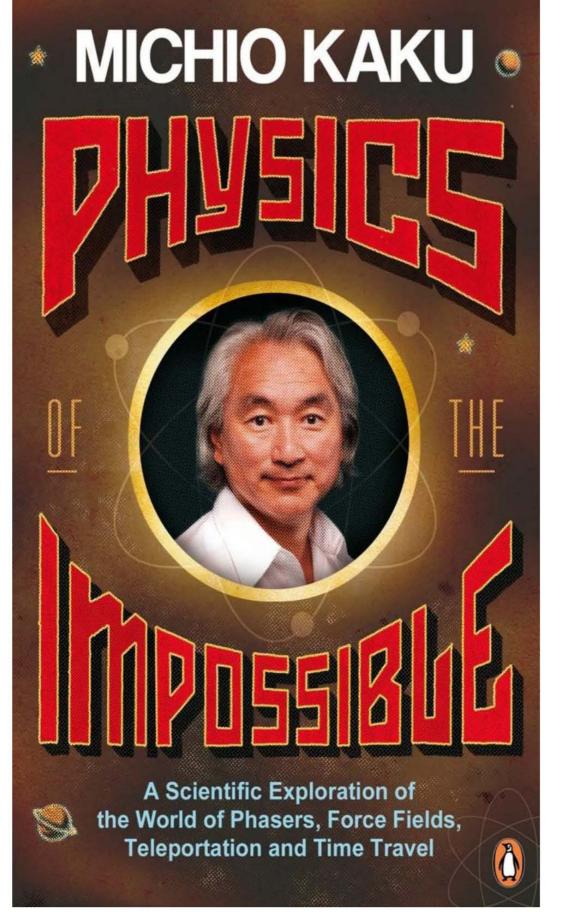
Time : 11.30 am

Venue : APJ Abdul Kalam Hall (PH6)





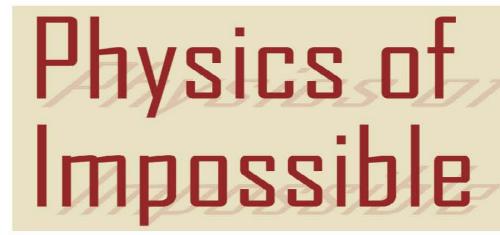






Introducing the
Chief Guest
Dr. N. RAVI
Head, Department of Physics







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REPORT		
Activity	Webinar Series on Materials for Energy and	
	Environment (WSMEE-22) - Event 1	
Date & Time	24-08-2022 & 03.00 PM TO 04.30 PM	
Topic(s)	"Energy Storage for Sustainable Growth"	
	Hybrid mode	
Platform/ venue	Zoom Meeting ID: 818 7268 3997	
	Zoom Passcode : WSMEE22	
	PHYSICS - Smart Classroom	
	Dr. A. SIVASHANMUGAM	
Resource Person(s)	Chief Scientist and Head	
	Electrochemical Power Sources Division	
	CSIR - CECRI, Karaikudi.	
Total no. of Participants	220	
	Participants are	
	• learnt important materials suitable for	
	anode, cathode, electrolyte and collectors.	
Outcome of the	acquired knowledge of storage devices over the	
Programme	sustainable energy and development in	
	Lithium/ion and Sodium/ion batteries.	
	 understand about flow batteries and solid-state 	
	batteries	

* Documents enclosed

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Webinar Series on

Materials for Energy and Environment (WSMEE-22) - Event 1



Speaker



Dr. A. SIVASHANMUGAM
Chief Scientist and Head
Electrochemical Power Sources Division
CSIR - CECRI, Karaidudi.

About Speaker

Dr. A. Sivashanmugan is a Chief Scientist and Head of Electrochemical Power Sources division, CSIR - CECRI. His research mainly focuses on materials for energy storage devices. He has 4 Indian patents and 3 International patents. He has completed many funded research projects by various funding agencies like DRDO, JSTA, DST, CSIR and IOCl. He is a Senate Member of Alagappa University, Karaikudi and Technical Operating Manager of BPTEC. Leader of TAPSUN network project, Cell Integeration Team.

Moderator



Dr. S. ALFRED CECIL RAJ
Controller of Examination
& Associate Professor
Department of Physics
St. Joseph's College (Autonomous)
Tiruchirappalli

Free Registration and E - Certificate will be provided for all Participants

Registration link: https://forms.gle/N4srbXC4rQ82V2e1A

Deadline : 22th August 2022

Or

Scan the QR



Dr. H. Joy Prabu, Assistant Professor E.mail ID: hjpsjc@gmail.com Cell no.: 9677625530

Webinar Series on Materials for Energy and Environment (WSMEE-22) - Event 1

Report

The Department of Physics, St. Joseph's College (Autonomous). Tiruchirappalli initiated and organized a webinar Series on the theme "Materials for Energy and Environment" with the objective to inculcate scientific knowledge among postgraduate students, research scholars, and young faculties. The first event of the webinar series is conducted on the topic entitled "Energy Storage for Sustainable Growth" on 24-08-2022 & 03.00 pm to 04.30 pm through hybrid mode (online and offline).

The resource person for the webinar was Dr. A. Sivashanmugam, Chief Scientist and Head, Electrochemical Power Sources Division, CSIR - CECRI, Karaikudi. The program started with a prayer song and followed by an opening remark delivered by Dr. H. Joy Prabu, Assistant Professor of Physics. Dr. N. Ravi, Head and Associate professor of Physics welcomed the gathering and moderate the session.

The resource person Dr. A. Sivashanmugam, elucidated the following points

- discovery and basics of batteries.
- the growth in field of batteries and power consumption of top countries. In which
 the India's per capita power consumption is rapidly increasing and it would
 possibly reach 2700 units/year in 2030.
- self-sustainable development goals.
- importance of storage devices over the sustainable energy.
- development in Lithium/ion and Sodium/ion batteries.
- electrode preparation techniques and methods. He also discussed materials suitable for Anode, Cathode, Electrolyte and collectors.
- instrument facilities used during electrode preparation for batteries
- tests used before commercialising like overcharge, short circuit, over discharge protection, imbalance charging and etc.
- He also discussed about flow batteries and solid-state batteries.
- Finally, equipment's available in CECRI and leading researches also have been discussed

The session ended with a round of discussion. Finally, Dr. S. Lourduraj, Coordinator Shift-II and Assistant Professor of Physics, expressed his gratitude towards the Management, Resource person, Participants, and Teaching and Non-teaching staff members. Around 220 participants across the country attended the webinar.

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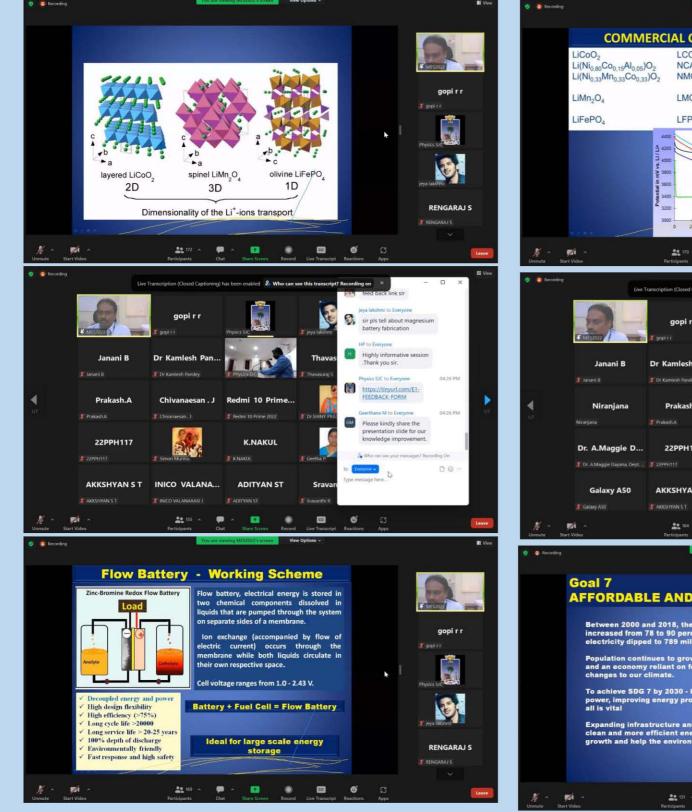
24th August 2022



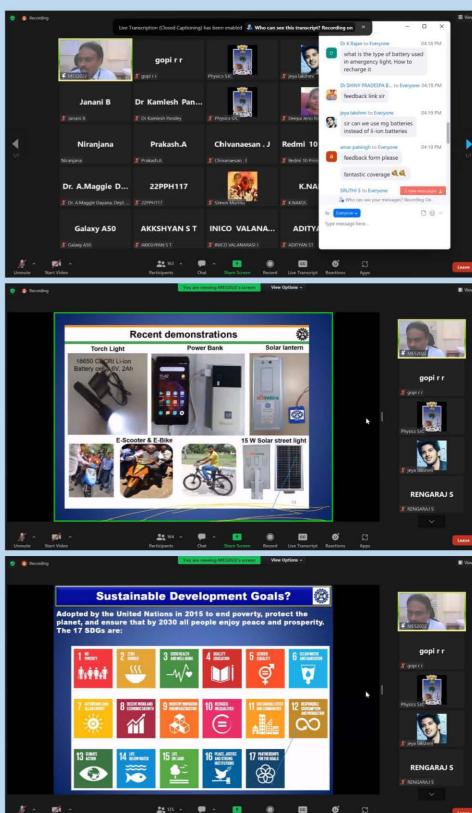
3:00pm (IST)

Webinar Series on

Materials for Energy and Environment (WSMEE-22) - Event 1









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Webinar Series on Materials for Energy and Environment (WSMEE-22) - Event 1 **ATTENDANCE SHEET (Online Google Form Responses)**

DATE	TIME	TOPIC
24.08.2022	03.00 PM- 04.30 PM (AN)	Energy Storage for Sustainable Growth
SNo No	Name and Designation	Address
1	Mr. R R GOPI, Project Assistant	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
2	Mr. NOVIN SENETRA ROY G, Assistant	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
	Professor	
3	Dr. G.SAMUEL, Assistant Professor	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
4	Dr. M SHUNMUGASUNDARAM, Professor	SCAD COLLEGE OF ENGINEERING AND TECHNOLOGY,
		Tamilnadu
5	Ms. A.SHINY PRADEEPA, Assistant Professor	PSN COLLEGE OF ENGINEERING AND TECHNOLOGY, TAMIL
		NADU
6	Ms. ADLIN D STEFFY, Research Scholar	Nesamony Memorial Christian College, Marthandam, India
7	Dr. KS KIRAN, Professor	FET Jain Deemed to be University, Karnataka
8	Ms. J SEBASTIN ANITHA, Research Scholar	Holy Cross College(Autonomous), Trichy-620002, Tamil Nadu, India
9	Mr. C. BALAJI, Research Scholar	Periyar University, Salem - 636011, Tamilnadu
10	Ms. JOSEPHINE GLADIYA M, Research Scholar	St. Xavier's College (Autonomous), Palayamkottai, 627 002, Tamil
		Nadu, India
11	Ms. SUVARNA K S, Research Scholar	Sree Neelakanta Govt Sanskrit College, Pattambi , Kerala
12	Ms. M. GOWSALYA, PG Student	University of madras chennai, Tamilnadu
13	Ms. SRAVANTHI R, Research Scholar	Ethiraj College for Women , Tamilnadu, India
14	Mrs. DEVY. K, Assistant Professor	St. Francis college for women, Telangana, India
15	Ms. SUMATHI P, Assistant Professor	St.Antony's College of Arts and Sciences for Women, Dindigul -624005,
		Tamilnadu, India
16	Dr. RENUGA VELAYUTHAM, Assistant	National College, Tiruchirapalli -620001, TAMIL NADU
	Professor	
17	Mr. U.G.KAARTHIK RAJA, PG Student	Gobi Arts and Science College, Gobichettipalayam, Tamil Nadu
18	Mr. S.RENGARAJ, Research Scholar	Pondicherry University, Puducherry

19	Mr. S KAVIYARASAN, PG Student	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
20	Ms. M. KALAIYARASI, Research Scholar	Arignar Anna Govt Arts College, Cheyyar- 604 407, Tamilnadu, India
21	Dr. PREM RAJ PUSHPAKARAN, Professor	NIT Calicut, Kerala
22	Dr. AVINASH MARWAL, Assistant Professor	MOHANLAL SUKHADIA UNIVERSITY, RAJASTHAN
23	Mr. AROCKIA OLIVER RAJA T, PG Student	Loyola College, Chennai 600034 , Tamilnadu
24	Mrs. S.JEYA LAKSHMI, Research Scholar	St.Xaviers college, Palayamkottai-627851, Tamilnadu, India
25	Dr. S.AMUDHA, Assistant Professor	SDNB Vaishnav College for Women, Chrompet, Chennai-600044, INDIA
26	Ms. N DHARANI PRIYA, PG Student	Gobi arts and science, Gobichettipalayam, Tamilnadu, India
27	Dr. K.RAJAN, Associate Professor	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
28	Mr. S. THAVASURAJ, Research Scholar	Alagappa university, karaikudi, Tamilnadu, India
29	Ms. MONA MERLIEN S, PG Student	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
30	Dr. S.SIVARANJANI, Assistant Professor	St.Antony's College of Arts and Sciences for Women, Dindigul-5, Tamilnadu, India
31	Mr. G. SUDHAKAR, Research Scholar	VIT UNIVERSITY VELLORE- 632014, Tamil nadu, India
32	Ms. HEMA K, PG Student	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
33	Mr. PUSHPENDER RAMAN, PG Student	CUTN, Uttar Pradesh India
34	Mr. KOTA VENKATA SATYA GIRISH, TECHNICAL OFFICER	INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD KANDI, TELANGANA
35	Mr. JITHU JOSEPH, Research Scholar	Department of Chemistry , Indian institute of space science and technology, Thiruvananthapuram, Kerala
36	Ms. A. ABI BELVIYA , Research Scholar	GOVERNMENT ARTS COLLEGE FOR MEN (AUTONOMOUS), NANDANAM,CHENNAI-35, TAMILNADU, INDIA
37	Mr. RAKESH KUMAR, Assistant Professor	KISHAN LAL PUBLIC COLLEGE REWARI, Haryana
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50	Ms. M.GEERTHANA, Research Scholar	Periyar University, Salem, Tamil Nadu
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57	Ms. S. ILAKKIYASELVI, Assistant Professor	Srimad Andavan Arts and Science College Trichy-5, Tamilnadu
58	Mr. GAZI FAROOQ, PG Student	University Of Kashmir , Srinager, Jammu & Kashmir
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61	Mrs. T. SOFIA NIRMALA, Assistant Professor	Loyola college of arts and science, Mettala, Tamil Nadu, India
62	Ms. SIVA PRIYA D, Research Scholar	Sacred Heart College (Autonomous), Tamil Nadu
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77	Ms. VAISHNAVI PATIL, PG Student	INSTITUTE OF CHEMICAL TECHNOLOGY MUMBAI
		MARATHWADA CAMPUS JALNA, Maharashtra
78	Dr. MEWIN VINCENT, Assistant Professor	CNBCh- Biological and Chemical Research Centre of University of Warsaw, Warsaw, Poland
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80	Ms. KOKILA S, Research Scholar	Vellore Institute of Technology - Chennai, 600127., TamilNadu
81	Mrs. K. KIRUTHIKA, Research Scholar	National College(Autonomous), Trichy-620001, Tamilnadu, ndia
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94	Mrs. J.INICO VALANARASI, Research Scholar	KONGU ENGINEERING COLLEGE, ERODE, TAMILNADU, INDIA
95	Ms. APOORVA RAI, Research Scholar	Guru Ghasidas Vishwavidyalaya Bilaspur, Chhatisgarh,India
96	Mr. D.MAGIMAI ANTONI RAJ, Assistant Professor	St.Charles College of Arts and Science, Eraiyur, Tamilnadu
97	Mrs. A. SAKSHI JOSHI, Research Scholar	Ethiraj College for Women, Chennai-60008, Tamil Nadu, India
98	Mrs. SHIREEN TAGORE, Assistant Professor	RBVRRWC,HYD, India
99	Mr. ANBARASAN.K, PG Student	St. Joseph's College (Autonomous), Trichy-620002, Tamil Nadu, India
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105	Mr. J JOHN PAUL, PG Student	St Joseph's College (Autonomous), Trichy, Tamil Nadu
106	Ms. G.LINDA VINNARASI, PG Student	St Joseph's College , Autonomous, Trichy_02, Tamilnadu
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141	Mr. CHARLI EDISON P, PG Student	St. Joseph's College (Autonomous), Trichy -12, Tamil Nadu
142	Dr. SP.UMAYAL, Professor	PSN College of Engineering and technology, Tamilnadu
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209	Dr. N. RAVI, Associate Professor & Head	Department of Physics, St. Joseph's College (Autonomous), Trichy-
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210	Dr. H. JOY PRABU, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Trichy-
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REPORT		
Activity	Stephen Hawkinginnovation club-Inauguration	
Date & Time	24-08-2022 & 12.30 PM TO 01.30 PM	
Topic(s)	"Introduction to Innovative Thinking"	
Platform/ venue	Offline mode PHYSICS – Smart Classroom	
Resource Person(s)	Dr.P.Christuraj and Dr. A. Antonyraj, Assistant Professor, Department of Physics, St. Joseph's College (Autonomous), Trichy-620002.	
Total no. of Participants	50	
Outcome of the Programme/ Key Points	 Dr.P.Christuraj sharedthe activities of Stephen Hawking innovation club and Indigenous MessierAstronomical telescope operations. Mr. Aazhimukilan, UG III year physics, briefed about how Messiertelescope was built and how we are improvising it up to research standards. The talk included the future goals of the club and the improvements andmeasures that have been made in Messier telescope. 	

* Documents enclosed

Dr. N. RAVI, M.Sc., M.Phil., Ph.D. Head & Asso. Prof. of Physics St. Joseph's College (Autonomous)
Tiruchirappalli - 620 002.

STEPHEN HAWKING INNOVATION CLUB

Join Us in the Celebration of our universe

12:30 PM TO 1:30 PM August 24, 2022

Club coordinators Dr.P.Christuraj Dr.A.Antony Raj Headed by
Dr.N.Ravi
Head of the Department
Department of Physics

"look up at the stars and not down at your feet"

VENUE: SMART ROOM

FIRST FLOOR, DEPARTMENT OF PHYSICS











Innovation club

Department of Physics

Inauguration ceremony report and annual objectives for the academic year 2022 - 2023



Inauguration ceremony of Stephen Hawking innovation club:

The Stephen hawking innovation club was inaugurated in Smart room of Physics department on 24 August 2022 at 12.30 PM. Nearly 50 students from shift I and II including girl students have participated.

The function was headed by our Head Of The Department Dr.N.Ravi and The club coordinators Dr.P.Christuraj and Dr.R.Antony Raj had mentored the students on how to get started with academic and research projects.

Speech on "Introduction to Innovative Thinking " by Dr.P.Christuraj:

All clubs important driving force is the clear focus and standard motivation in the students. To set these going our club coordinator Dr,P,Christuraj has given a speech explaining what innovation thinking is really all about and how students should approach projects and problem, how students can present their ideas, how to create a proposal.



Speech on "How to develop scientific mentality and motivation to do research"by Dr.R.Antony Raj :

Dr.R.Antony Raj has delivered a talk on developing scientific mentality and how to frame questions that would develop into research and innovation. The talk insisted how analyzing the nature leads to research and great discoveries. It greatly motivated the students. We had students interaction session after every talk.



Introducing Messier telescope, The past and future objectives of Stephen Hawking Innovation Club:

After the successful completion of the Messier astronomical telescope the Stephen Hawking innovation club has set foot to induce the younger minds to be innovative and to bring the joy of physics to students.

On this process we had arranged an introductory discussion along with the inauguration function of Stephen Hawking innovation club and Messier Astronomical telescope followed by a session with first and second year students of physics department.

Mr. Aazhimukilan, UG III year physics, gave the students a talk on how Messier telescope was built and how we are improvising it up to research standards. The talk included the future goals of the club and the improvements and measures that have been made in Messier telescope.







Future goals and programs of the club:

- 1. Lunar Celebration with NASA space outreach program (2-9 October 2022)
- 2.Workshop on discovering Asteroids from pan-stars observatory- Hawai (August 23-26, 2022)
- 3.Public course on observation astronomy and open sky observation sessions (Whenever the sky is clear)
- 4.Practical small sessions for 3rd year undergraduate students to learn more about self based study paaper on astrophysics.
- 5.Getting the proposals for new innovative ideas from the students and to be implemented.

Research interests:

- 1. Analyzing atmospheric data of the planets Jupiter, Saturn and Venus using Stellar Spectroscopy.
- 2. Researching the elemental composition of stars Vega, Betelgeuse, Antares and Sirius.
- 3. Observing Hydrogen Balmer lines of average G type stars
- 4. Building a cloud chamber to detect cosmic ray particles

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REPORT		
Activity	International Conference on crystal growth and spectroscopy (ICCGS-2022)	
Date & Time Topic(s)	29-08-2022 to 31-08-2022 "Crystal growth and spectroscopy"	
Platform/ venue	Online mode Zoom Meeting Meeting ID: 875 5094 4494 Passcode: ICCGS2022	
Resource Person(s)	 Prof. P. Ramasamy, President, Indian Association for Crystal Growth (IACG) Prof. S. Moorthy Babu, Professor & Director, Crystal Growth Centre, Anna University Dr. ByruVenkatram Reddy, Professor, Department of Physics, Registrar, Kakatiya University Prof. R. Jayavel, President, Indian Science and Technology Association (ISTA) Prof. S. Gunasekaran, President, Indian Spectrophysics Association (ISPA) Prof. Jiban Podder, Professor, Department of Physics, Bangladesh University of Engineering & Technology, Dhaka 	
Total no. of Participants	200	
Outcome of the Programme/ Key Points	 Research Scholars gained knowledgeabout recent development in the field of Crystal Growth and Spectroscopy. Scholars presented their Research work and enlightened Participants acquired knowledge from renowned scientist talks. 	

* Documents enclosed

Dr. N. RAVI, W.Sc., M.Phil., Ph.D. Head & Asso. Prof. of Physics St. Joseph's College (Autonomous) Tiruchirappalli - 620 002.

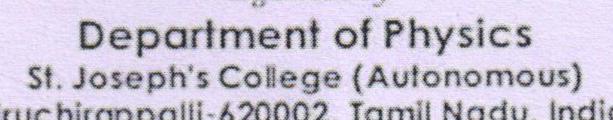
International Conference on Crystal Growth and Spectroscopy (ICCGS-2022)





29-31 August 2022 (Virtual)

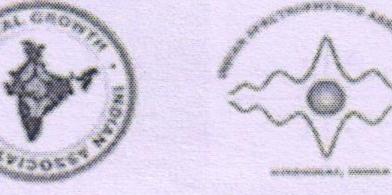
Organized by



Tiruchirappalli-620002, Tamil Nadu, India

In Collaboration with

SSN Research Centre, SSN Institutions Chennai-603110, Tamil Nadu, India



In Association with

Indian Association for Crystal Growth (IACG) Indian Spectrophysics Association (ISPA)

Report

The Three days International Conference on crystal growth and spectroscopy from 29th to 31st August was organised by the Department of Physics, St. Joseph's College, Trichy in collaboration with SSN Institutions, Chennai and in Association with Indian Association for Crystal Growth (IACG) & Indian Spectro-Physics Association (ISPA). Totally 130 abstracts were accepted for oral presentation and there were more than 200 participants. There were totally 12 invited lectures.

The inaugural programme was started at 9.30 am on 29th August 2022. Dr. B. Kanickairaj, Organizing Secretary, welcomed the gathering. Dr. N. Ravi, convener, shared the dynamics of the Conference. Rev. Dr.K.Amal SJ, Secretary felicitated the gathering and released the abstract book. Dr.P.Rajendran, Deputy Principal received the first copy of the abstract book. Prof. P. Ramasamy, President of Indian Association for Crystal Growth, Dean of Research, SSN Institutions, Chennai delivered the inaugural address. The Founder and President of ISPA, Prof. S. Gunasekaran, Dean of R&D, St. Peters Institute, Chennai delivered the keynote address. Dr.A.Alexandar, Joint Organizing Secretary thanked the gathering. The oral presentations in crystal growth and spectroscopy were conducted on Monday and oral presentations in nano-materials were conducted on Tuesday.

The Valedictory programme was started at 2.00 pm on 31th August 2022. Dr. B. Kanickairaj, Organizing Secretary, welcomed the gathering. Dr. Paul Angelo, Dean, School of Physical Sciences, St. Josephs College delivered the felicitation address. Prof. S. Gunasekaran, Dean of R&D, St. Peters Institute, Chennai delivered the keynote address. Prof. P. Ramasamy delivered the Chief Guest address. The best oral presentations awards were announced. Dr.A.Alexandar, Joint Organizing Secretary thanked the gathering. This conference will definitely enrich the participants research skills.

> Head of the Department HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2

International Conference on Crystal Growth and Spectroscopy



555

29-31 August 2022 (Virtual)

(ICCGS-2022)

Organized by

Department of Physics St. Joseph's College (Autonomous)

Tiruchirappalli-620002, Tamil Nadu, India

In Collaboration with

SSN Research Centre, SSN Institutions Chennai-603110, Tamil Nadu, India





In Association with

Indian Association for Crystal Growth (IACG)
Indian Spectrophysics Association (ISPA)

HOST INSTITUTION

St. Joseph's College (SJC) was founded by the Jesuit visionaries in 1844 with the noble aim of educating humanity for the Good and the True (Pro Bono Et Vero). SJC now serves as a beacon of light for all men and women aspiring to pursue holistic higher education. SJC is a private, aided Christian minority institution affiliated to Bharathidasan University, Tiruchirappalli, Tamil Nadu. It is one of the first colleges to be granted autonomy by the UGC in 1978. SJC

- Was recognized by the UGC as a College with Potential for Excellence in 2004 and again in 2014
- Received DST-FIST fund in 2008 and 2014 and DBT-STAR status in 2014
- Received the coveted honor of the Special Heritage Status from the UGC in 2015
- Secured 27th position in NIRF of 6th edition (2021) under college category
- Secured the Five Star Status (2000), A+Grade (2006), A Grade (2012) and A++Grade (2019) in NAAC accreditation process.

The college caters to the educational needs of all sections with a marked emphasis on the preferential option for the poor, the marginalized, the first-generation learners and the other deprived sections of the society.

ABOUT THE DEPARTMENT

The history of the Department of Physics dates to the year 1860s, during the inception of the college. The department has started many programmes such as B.A. Physics (1881), B.Sc. (Hons.) Physics (1911), B.Sc. Physics (1930), M.Sc. Physics (1961), Ph.D. (1971) and M.Phil. (1977). It had given birth to 2 new departments Computer Science in 1983 and Electronics in 1993. To cater the needs of the students, B.Sc. & M.Sc. (Physics) programmes in Self-Financing Section (Shift-II) were started in 1982 & 2004 respectively. The department is one of the Star Departments among 24 departments of the college.

The department is DST-FIST funded and DBT-STAR supported has research facilities in Experimental Physics area. The faculty members undertake activities in knowledge transfer and research with extramural funds from government funding agencies like UGC, DST, DRDO, CSIR and others. Notable alumni of the department are Bharat Ratna, Dr. A.P.J. Abdul Kalam, the former President of India and Dr. G. N. Ramachandran, an Indian Physicist who was known for his work, The Ramachandran Plot for understanding peptide structure and nominated for Nobel Prize.

ABOUT THE CONFERENCE

The International Conference on Crystal Growth and Spectroscopy (ICCGS-2022) will be held in the Department of Physics, St. Joseph's College, Tiruchirappalli, Tamil Nadu in collaboration with SSN institutions Chennai and in association with Indian Association for Crystal Growth (IACG) & Indian Spectrophysics Association (ISPA).

The objective of this international conference is to understand and appreciate the research work in crystal growth and spectroscopy and promote the same to the research community with ease. The conference also provides opportunities for the delegates to enhance new ideas, applications and experiences, to establish new research relations and to find global partners for future collaborations.

GENERAL INFORMATION

- 1. No registration fee.
- 2. Abstracts may be submitted for Oral/Poster Presentations through Email: iccgssjc@gmail.com.
- Best Presentation Awards and Best Scientific Interaction awards will be given by IACG.
- 4. E-certificates will be given to the presenters/participants/awardees.

REGISTRATION LINK

https://forms.gle/SCKtZ9fpsvJBLjt4A

QR Code



TOPICS FOR ORAL/POSTER PRESENTATION

- Crystal Growth from Solution, Melt and Vapour
- Sankaranarayanan-Ramasamy (SR) Method
- Nucleation and Theories of Crystal Growth
 Novel and Nonlinear Optical (NLO) Crystals
- Semiconductors and Optoelectronic Crystals
- Single Crystal Devices
- Experimental Aspects of Crystal Growth
- Innovations in Crystal Growth
- Crystal Growth Instrumentation
- Characterization of Single Crystals
- Modeling in Crystal Growth
- Nano-Crystalline Materials
- Vibrational Spectroscopy
- Density Functional Theory

CONFERENCE COMMITTEE

Chief Patron



Rev. Dr. Leonard Fernando SJ
Rector
St. Joseph's College Tirushirannalli

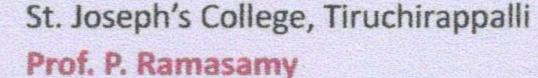
St. Joseph's College, Tiruchirappalli

Patrons



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St. Joseph's College, Tiruchirappalli

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Rev. Dr. K. Amal SJ

President Indian Association or Crystal Growth



Prof. S. Gunasekaran President

Indian Spectrophysics Association

Convenors



Dr. Muthu Senthil Pandian
SSN Institutions
Chennai



Dr. N. Ravi

Head, Department of Physics St. Joseph's College, Tiruchirappalli

Organising Secretary



Dr. B. Kanickairaj

Associate Professor of Physics St. Joseph's College, Tiruchirappalli

Jt. Organising Secretary



Dr. A. Alexandar

Assistant Professor of Physics St. Joseph's College, Tiruchirappalli

Last date for registration: 08th August 2022

Last date for submission of abstract: 10th August 2022

Acceptance notification: 13th August 2022

Address for Communication Dr. A. Alexandar

Jt. Organizing Secretary, ICCGS-2022, Assistant Professor of Physics St. Joseph's College (Autonomous), Tiruchirappalli-2, Tamil Nadu, India. Email: iccgssjc@gmail.com Mobile: +91-8610319747

International Conference on Crystal Growth and Spectroscopy





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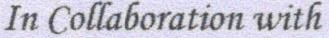
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SSN Research Centre, SSN Institutions Chennai-603110, Tamil Nadu, India

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Mr. G. Novin Senetra Roy, Asst. Prof. of Physics

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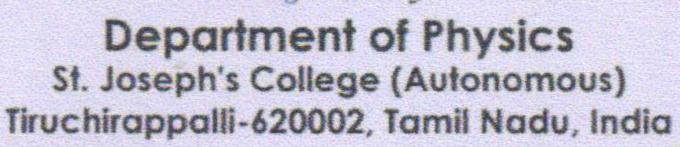
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Indian Spectrophysics Association (ISPA)

Inaugural Program

Date: 29.08.2022

Venue: Smart Classroom, Department of Physics

Zoom Link: https://us06web.zoom.us/j/87550944494?pwd=MFRjTEJNVIU1aXBRZVdTdmJnN0FiUT09
Meeting ID: 875 5094 4494 Passcode: ICCGS2022

Programme Schedule

9.30 am: Prayer Song

9.35 am: Welcome Address

Dr. B. Kanickairaj

Organizing Secretary, ICCGS-2022.

9.40 am: Dynamics of the Conference

Dr. N. Ravi

Convenor, ICCGS-2022

9.45 am: Felicitation Address & Souvenir Releasing

Rev. Dr. K. Amal SJ

Secretary

St. Joseph's College, Tiruchirappalli.

Rev. Dr. K. Amal SJ Souvenir Receiving

Dr. P. Rajendran
Deputy Principal

St. Joseph's College, Tiruchirappalli.

9.50 am: Inaugural Address

Prof. P. Ramasamy

President

Indian Association for Crystal Growth

9.55 am: Keynote Address

Prof. S. Gunasekaran

President

Indian Spectrophysics Association

10.05 am: Vote of Thanks

Dr. A. Alexandar

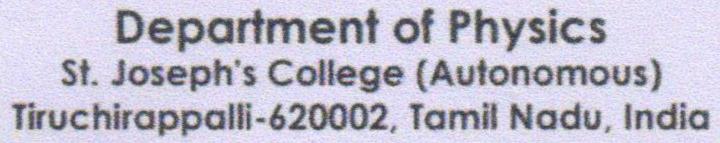
Jt. Organizing Secretary, ICCGS-2022.

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Valedictory Program Date: 31.08.2022

Zoom Link:

https://us06web.zoom.us/j/87550944494?pwd=MFRjTEJNVIU1aXBRZVdTdmJnN0FiUT09 Meeting ID: 875 5094 4494 Passcode: ICCGS2022

Programme Schedule

2.00 pm: Prayer Song

2.05 pm: Welcome Address

Dr. B. Kanickairaj

Organizing Secretary, ICCGS-2022.

2.10 pm: Felicitation Address

Dr. A. N. Paul Angelo Dean, Physical Sciences

St. Joseph's College, Tiruchirappalli-2.

2.15 pm: Valedictory Address

Prof. S. Gunasekaran

President

Indian Spectrophysics Association

2.20 pm: Chief guest Address &

Best Presentation Declaration

Prof. P. Ramasamy

President

Indian Association for Crystal Growth &

Dr. Muthu Senthil Pandian

Convenor, ICCGS-2022

2.25 pm: Vote of Thanks

Dr. A. Alexandar

Jt. Organizing Secretary, ICCGS-2022.

ICCGS-2022 Programme schedule

DAY 1 -29.08.2022 - Monday

S.No	Resource Persons	Topic	Session
			9.30 am to
	Inauguration		10.15 am
IT1	Prof. P. Ramasamy		
	President, Indian Association for Crystal	Development of High Quality	1
	Growth (IACG)	Nonlinear Optical (NLO) Single	
	Dean (research), SSN Institution &	Crystals for Second Harmonic	(10.15 am-
	Direct, SSN Research Centre	Generation (SHG) Device applications	11.15 am)
	Chennai-603110, Tamil Nadu, India		
	Email:ramasamyp@ssn.edu.in		
IT2	Prof. S. Moorthy Babu		
	Professor & Director	Single Crystal Growth of pure and	2
	Crystal Growth Centre, Anna University	doped β-Ga2O3 by OFZ technique and	
	Chennai-600025, Tamil Nadu, India	its characterization	(11.30 am-
	Email: <u>babu@annauniv.edu</u>		12.30 pm)
	Lunch break		12.30 pm-
			01.30 pm
IT3	Dr. Byru Venkatram Reddy		
	Professor, Department of Physics	Experimental and density functional	3
	Registrar, Kakatiya University	theory study on structure, vibrational	
	Warangal-506009, Telangana, India	and molecular characteristics of 2-	(1.30 pm-
	Mail: <u>bvreddy67@yahoo.com</u>	chloro-5- and 2,4-dichloro-5-	02.30 pm)
		methylpyrimidine	
IT4	Prof. R. Jayavel		
	President, Indian Science and Technology	Single crystal growth of 2D materials	4
	Association (ISTA)	for Functional Devices	
	Dean, Alagappa College of Technology		(2.45pm –
	Anna University, Chennai-600025, Tamil		3.45 pm)
	Nadu, India. Email: rjvel@annauniv.edu		
	Oral presentation	Crystal growth and spectroscopy	4.00pm-
			6.00 pm

DAY 2--30.08.2022 - Tuesday

S.N0	Resource Persons	Topic Topic	Session
IT5	Prof. S. Gunasekaran		
	President, Indian Spectrophysics	ATR Technique – A Fortune To FTIR	1
	Association (ISPA)	Spectroscopy For Material	
	Dean (R&D),	Characterization	(9.30. am-
	St. Peter's Institute of Higher Education		10.30 am)
	and Research		
	(SPIHER), Chennai-600054, Tamil		
	Nadu, India. Email:		
	deanresearch@spiher.ac.in		
	Prof. Jiban Podder		
IT6	Professor, Department of Physics	An overview of activated carbon	2
	Bangladesh University of Engineering	based electrode materials for	
	& Technology	electrochemical energy	(10.45 am-
	Dhaka-1000, Bangladesh	Storage	11.45 am)
	Email: jpodder@phy.buet.ac.bd		
IT7	Dr. P. Janani	Role of Reflectance Spectroscopic	
	Instructional Designer Head	Technique in Diagnosing the Thyroid	3
	(Academics), Echtian Content Private	Disorder and Efficacy of an	
	Limited, Mumbai.	Ayurvedic Drug in the Treatment of	(12.00 -
		Thyroid	01.00 pm)
	Lunch break		01.00 pm -
IT8	Dr. N. Vijayan		02.00 pm
110	Principal Scientist & Head	Growth of Single crystals by SR, Seed	4
	In-House BND Group	Rotation and VBT techniques	
	Indian Reference Materials Division	reotation and v DT teeningues	(02.00pm -
	CSIR-National Physical Laboratory		03.00 pm)
	Government of India, New Delhi-		obioo piii)
	110012, India		
	Email: vjnphy@yahoo.com		
	Oral Presentation	Nano materials and other topics	03.15pm-
	Orar i rescritation	rano matoriale and other topics	06.00 pm

DAY 3--31.08.2022 -Wednesday

S.No	Resource Persons	Topic	Session
IT9	Prof. C. K. Jayasankar		
	UGC-BSR Faculty Fellow	Luminescence spectroscopy of Eu ³⁺ as	1
	Department of Physics	a structural probe for	
	Sri Venkateswara University	determination of the local site	(9.30. am-
	Tirupati-517502, Andhra Pradesh,	symmetry	10.25 am)
	Email: ckjaya@yahoo.com		
IT10	Prof. K. K. Bamzai		
	Professor, Department of Physics	Growth, characterization and	2
	University of Jammu	properties of some perovskite type	
	Jammu Tawi (J&K)-180006	oxide single crystals	(10.25 am-
	Jammu and Kashmir, India		11.20 am)
	E-mail: kkbamz@yahoo.com		
IT11	Dr. Magesh Murugesan		
	Researcher	CdTe/CdZnTe crystal growth and	3.
	Institute of Materials Research	characterization for room temperature	
	Washington State University	radiation detector	(11.20 –am
	Pullman-99163, Washington,		12.10 pm)
	United States		
	Email: mage.radha@gmail.com		
IT12	Prof. Sunil Verma	Optical techniques for in-situ and real-	(12.10 -
	Bio-Materials & Diamedical Application	time investigations of the crystal	01.00 pm)
	Lab., Laser Biomedical Applications Division,	growth kinetics	
	Raja Ramanna Centre for Advanced		
	Technology, Indore - 452013, MP,		
	India Email: sverma@rrcat.gov.in, Phone:		
	+91-731-248-8159		
	Lunch Break		
			2.00 pm
	Valed	iction	2.00 pm
			3.00pm

International Conference on Crystal Growth and Spectroscopy (ICCGS-2022)





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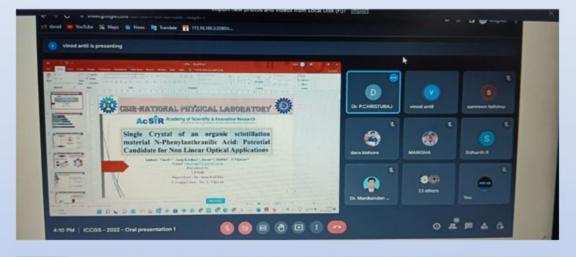
Department of Physics St. Joseph's College (Autonomous) Tiruchirappalli-620002, Tamil Nadu, India

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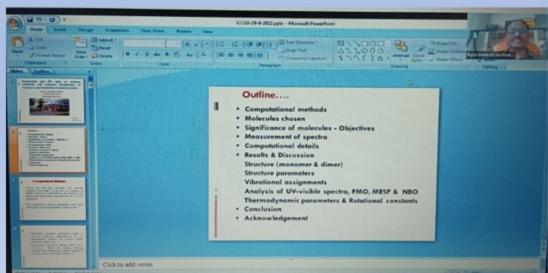












Growth of Single crystals by SR, Seed Rotation and VBT



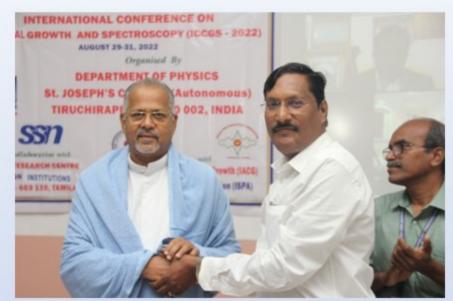
Dr. N. Vijayan

Sr. Principal Scientist

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E-mail: nvijayan@nplindia.org; vjnphy@gmail.com

Mob: 09868389634/011-45608263

























DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE (Autonomous)

TIRUCHIRAPALLI – 620002

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International Conference on Crystal Growth and Spectroscopy (ICCGS-2022)

29-31 August 2022 (Virtual)

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		MANIKANDAN			
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8	Mr.	VINOD	Research Scholar	CSIR-NATIONAL PHYSICAL LABORATORY, DR. K.S. KRISHNAN MARG, PUSA, DELHI-110012	
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13	Mrs	BRAVANJALIN SUBI E	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE, MARTHANDAM	
			Assistant Professor of		
14	Mr	DARA KISHORE	Chemistry	SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY CHITTOOR	
15	Dr	R. KUMUTHINI	Assistant Professor	SADAKATHULLAH APPA COLLEGE, TIRUNELVELI	
16	Dr	R.RAJA	Assistant Professor	SCSVMV UNIVERSITY. KANCHIPURAM	

17	Ms.	JAGRUTIBA D. GOHIL	Research Scholar	DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY, VALLABH VIDHYANAGAR.	
18	Dr	G.GOKILA	Assistant Professor	PRIST UNIVERSITY	
19	Mrs.	L.SHYLA	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE MARTHANDAM	
20	Mr	GERSHOM JEBARAJ P	Research Scholar	ST.XAVIER'S COLLEGE, PALAYAMKOTTAI	
			Assistant Professor Of		
21	Dr	U.RAJESH KANNAN	Physics	KAMARAJ COLLEGE THOOTHUKUDI	
22	Ms.	J. PRISCILLA	Research Scholar	B S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY	
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25	Mrs	D.SHOBANA	Assistant Professor	KONGU ENGINEERING COLLEGE, PERUNDURAI	
26	Dr.	GAYATHRI P	Assistant Professor	PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY	
27	Dr.	PRABU	Assistant Professor	M. I. E. T. ENGINEERING COLLEGE, PUDUKOTTAI ROAD, TRICHY	
		HARIINI		NO. 2 SOUTH TELEPHONE COLONY 2ND STREET MADHAVARAM MILK COLONY CHENNAI	
28	Ms.	CHANDRAMOHAN	Research Scholar	600051	
				DEPARTMENT OF ENERGY, UNIVERSITY OF MADRAS, GUINDY CAMPUS, CHENNAI - 600	
29	Mr	SURYA S	Research Scholar	025.	
30	Mr.	E.THENPANDYAN	Research Scholar	ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR	
31	Ms.	SAMREEN FATHIMA	Research Scholar	UNIVERSITY OF MADRAS, GUINDY CAMPUS, CHENNAI -600 025	
32	MS.	T. SATHISHPRIYA	Research Scholar	ANNAMALAI UNIVERSITY	
33	Dr	D KARTHIKEYAN	Assistant Professor	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY KATTANKULATHUR	
34	Dr.	H. JOY PRABU	Assistant Professor	ST. JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHCHIRAPPALLI- 620 002.	
35	Ms	DIVYA P	Research Scholar	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR	
36	Mr.	SOUVICK DAS	Research Scholar	THE UNIVERSITY OF BURDWAN, GOLAPBAG WEST BENGAL	
0.000		SAMRUDDHI V.			
37	Ms.	CHAUHAN	Student	P. D. PATEL INSTITUTE OF APPLIED SCIENCES	
38	Ms	AKANKSHA CHOUBEY	Research Scholar	DEPARTMENT OF PHYSICS, SSN COLLEGE OF ENGINEERING, KALAVAKKAM	
39	Mr.	ACCHUTHARAMAN K R	Research Scholar	SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM - 603110	
40	Mr	BALAGOWTHAM	Research Scholar	SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM	
400115	10 10	M.A. GAYATHRE	200		
41	Ms.	LAKSHMI	Research Scholar	SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM	
4.5	l	CHANDRAHASYA			
42	Mr.	MOTILAL NANDANWAR	Research Scholar	NEVJABAI HITAKARINI COLLEGE, BRAMHAPURI, CHANDRAPUR 441206, (M.H.), INDIA	
43	Ms	P. DIANA	Research Scholar	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION	
44	Dr.	BHASKAR JYOTI SARKAR	Assistant Professor	VIVEKANANDA MAHAVIDYALAYA, BURDWAN	
45	Dr	M. SUNDARRAJAN	Assistant Professor (S lii)	SCSVMV, ENATHUR, KANCHEEPURAM 631562	

46	Ms.	MANISHA	Research Scholar	NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY, SECTOR-3 DWARKA, NEW DELHI
47	Mr	BADAL L.CHAUHAN	Research Scholar	DEPARTMENT OF PHYSICS SARDAR PATEL UNIVERSITY
48	Dr.	KARL CHINNU. M	Assistant Professor	DR. AMBEDKAR GOVT. ARTS COLLEGE, CHENNAI
49	Ms.	PRIYAMBADA MALLICK	Research Scholar	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA,INDIA
50	Dr.	DINESH A KUMAR	Assistant Professor	DEPARTMENT OF CHEMISTRY, KLP COLLEGE, REWARI, HARYANA
51	Mr.	DIPAN KUMAR DAS	Research Scholar	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA
52	Ns	ASHNITHA MOHAN	Research Scholar	MANNAI RAJAGOPALASWAMY ARTS AND SCIENCE COLLEGE, MANNARGUDI
53	Mr.	RAKESH KUMAR	Assistant Professor	KISHAN LAL PUBLIC COLLEGE REWARI HARYANA
54	Mr.	SUKHENDU SADHUKHAN	Research Scholar	THE UNIVERSITY OF BURDWAN, GOLAPBAG, BURDWAN, W.B.
55	Ms.	SAHANA R	Research Scholar	DEPARTMENT OF PHYSICS, THIAGARAJAR COLLEGE, MADURAI-625 009
56	Ms	A.KANIMOZHI	Research Scholar	ANNAMALAI UNIVERSITY,ANNAMALAI NAGAR,CHIDAMPARAM.
57	Dr.	P.GEETHA	Professor	SCHOOL OF ENGINEERING, MB UNIVERSITY
				DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES (PHYSICS), ANNA UNIVERSITY
58	Ms.	GRACIE.P.J	Research Scholar	(MIT CAMPUS), CHENNAI
59	Dr.	S.KARTHIKEYAN	Assistant Professor	DR.AMBEDKAR GOVT ARTS COLLEGE CHENNAI
		NASHREENBANU F.		
60	Ms.	PATEL	Research Scholar	DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY, VALLABH VIDYANAGAR.
61	Mr.	SANJAY A. BHAKHAR	Reaserch Scholar	DEPARTMENT OF PHYSICS, SARDAR PATEL UNIVERSITY
62	Б.	DD MCHWAC M	Associate Professor Of	NIDLIDATIU INC A LINIVEDCITY
62	Dr.	DR. VISHWAS M	Physics	NRUPATHUNGA UNIVERSITY
63	Mrs	GIBINA MOL S	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE, MARTHANDAM, KANNIYAKUMARI DISTRICT, TAMILNADU
64	Mr.	YASEEN AHMAD	Research Scholar	CGMR LAB., DEPARTMENT OF PHYSICS UNIVERSITY OF JAMMU
65	Mr.	SIVASANKARAN B R	Research Scholars	DEPARTMENT OF ENERGY, UNIVERSITY OF MADRAS, GUINDY CAMPUS, CHENNAI
- 03	IVII.	SIVASANNANAN DIN	Nesearch Scholars	SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING, PRASANTHI NILAYAM €" 515 134, SRI
66	Mr.	SIDHARTH RANASINGH	Student	SATHYA SAI DISTRICT, ANDHRA PRADESH, INDIA
67	Mr.	RAJNI KANT VERMA	Research Scholar	DAYALBAGH EDUCATIONAL INSTITUTE (DEEMED TO BE UNIVERSITY), DAYALBAGH, AGRA
68	Dr	M. SUNDARRAJAN	Assistant Professor (S lii)	SCSVMV, ENATHUR, KANCHEEPURAM 631561
69	Mrs.	R MAHALAKSHMI	Assistant Professor	ST PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH
359.53	national acceptance	inger den det versoms viriligit i de mitte. Große Statistischen de bez	Ab decreasement of the first of	DEPARTMENT OF PHYSICS AND MATERIAL SCIENCE AND ENGINEERING, JAYPEE
70	Ms.	CHANDRESH KUMARI	Research Scholar	INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA
71	Dr.	SAI MUTHUKUMAR V	Associate Professor	SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING
72	MS	J.MANONMANI	Research Scholar	ANNAMALAI UNIVERSITY, CHIDAMBARAM
73	Ms.	VARSHA. V. R	Research Scholar	SDNB VAISHNAV COLLEGE FOR WOMEN, CHROMEPET, CHENNAI, TAMILNADU
74	Mrs.	V.SASIKALA	Assistant Professor	SHRIMATI INDIRA GANDHI COLLEGE, TRICHY-2

75	Mrs	VENI SRI AMBIKA.S	Research Scholar	ST.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH, AVADI, CHENNAI-54	
76	Mrs	M.PREMALATHA	Assistant Professor	SHRIMATI INDIRA GANDHI COLLEGE TRICHY-2	
77	Ms.	R. ABINAYASHRI	Research Scholar	M.R.GOVERNMENT ARTS COLLEGE MANNARGUDI	
				GOVERNMENT ENGINEERING COLLEGE, B M ROAD, DAIRY CIRCLE, HASSAN 573201	
78	Dr.	N R SREENATHA	Assistant Professor	KARNATAKA	
79	Dr.	B N LAKSHMINARAYANA	Associate Professor	ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY	
			Assistant		
			Professor/Selection	PG AND RESEARCH DEPARTMENT OF PHYSICS, SEETHALAKSHMI RAMASWAMI	
80	Dr.	K.SEETHALAKSHMI	Grade	COLLEGE,TIRUCHIRAPPALLI-2,TAMILNADU, INDIA	
81	Mrs.	G. SRIDEVI	Assistant Professor	M. N. M. JAIN ENGINEERING COLLEGE	
82	Mrs.	RANI MARIAM CHERIAN	Research Scholar	DEPARTMENT IF PHYSICS,CMS COLLEGE, KOTTAYAM, KERALA	
83	Dr.	DHANYA N.P.	Assistant Professor	KKTM GOVT. COLLEGE, PULLUT, THRISSUR, KERALA, 680663	
84	Ms.	ADLIN D STEFFY	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE, MARTHANDAM	
85	Ms.	S.GAYATHRI	Research Scholar	ANNAMALAI UNIVERSITY ,CHIDAMBARAM, TAMILNADU-608002	
86	Mrs.	S.MALLIKA	Research Scholar	ARIGNAR ANNA GOVERNMENT ARTS COLLEGE MUSIRI	
87	Mrs	MALARVIZHI.V	Research Scholar	ARIGNAR ANNA GOVERNMENT ARTS COLLEGE. MUSIRI.	
88	Mrs	BUSHRAMOL S	Research Scholar	CMS COLLEGE, KOTTAYAM	
89	Dr.	SHIVALEELA BASAVARAJ	Assistant Professor	DEPARTMENT OF PHYSICS GULBARGA UNIVERSITY KALABURAGI-585106	
				THIAGARAJAR COLLEGE ,#139, 140, TEPPAKULAM W ST, KAMARAJAR SALAI, TAMIL	
90	Ms.	P. MOUNICA	Research Scholar	NADU 625009	
		SANTANU KUMAR			
91	Mr	NAYAK	Research Scholar	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT , BBSR,ODISHA, INDIA	
92	Mrs.	R.NAGALAKSHMI	Assistant Professor	SHRIMATI INDIRA GANDHI COLLEGE, TRICHY	
93	Ms.	ABISHA. W	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE	



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REPORT					
"INAUGURATION CEREMONY EINSTEIN QUIZ CLUB"					
07-09-2022 & 12:30 pm to 01:30 pm					
"Why Quiz"					
Offline mode Smart Classroom-Physics					
Dr. A. IRUDAYA JOTHI Assistant Professor, Dept. of Chemistry St. Joseph's College, Tiruchirappalli.					
65					
 Students understood the importance of participating in Quiz programme. Students were motivated and encouraged to know the current affairs. Students came to know how to prepare for the quiz competition in science. 					

* Documents enclosed

HEAD. DEPT. OF PHYSICS
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TIRUCHIRAPPALLI - 2





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Resource Person

Dr. A. Irudaya Jothi

Assistant Professor, Dept. of Chemistry St. Joseph's College, Tiruchirappalli.

Topic: Why Quiz?

Felicitation Address

Dr. N. Ravi

Head and Associate Professor

Club Coordinators

Dr. G. Samuel Mrs. B. Mary Dayana



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Inauguration Ceremony Einstein Quiz Club

















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INAUGURATION CEREMONY -EINSTEIN QUIZ CLUB-ATTENDANCE SHEET

DATE 07-09-2022

TIME:12.30-1.30PM

TOPIC: WHY QUIZ?

RE	SIGNATURE	NAME	D.No	S.No.
	P. Bala Vigneshwar.	P. BALA YIGHNESH WAR.	22UPH 534	1
	M. Kaniyarasu.	M.KAVIYARA6U	22UPH528	
	M. Diushins	M. Divya Dharshine	22 UPH 503	3.
~	8.8hifin Sun	S. SHAFICA BANU	22 UPH 508	4.
	G. Arsenthika.	G. AVANTHIKA	22UPH512	5
	R. Balanya	R. BALASUJA.	220PH502	
h	A. Jayabbonthi	A-JAYABHAPATHI	22 UP#533	7.
	Seconothik.	SREEMATHI 1C.	21UPH 542	
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	5-Verh Vorkie.	Vedha Varshini. B.	20UPH 546	10
	M. Shorthy.	SHRUTHI.A	20UPH604	11
ry JJ.	Maria de Sintony	MARIA JOE ANTONY JJ	22PPH807	46
·S.	Tofantin By . 8.	JEFFILA INFANCIA ROY.S	22PPH832	
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TIRUCHIRAPALLI - 620002

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INAUGURATION CEREMONY -EINSTEIN QUIZ CLUB-ATTENDANCE SHEET

DATE 07-09-2022

TIME:12.30-1.30PM

TOPIC:WHY QUIZ?

S.No.	D.No	NAME	SIGNATURE
1	21UPH117	NAVEENS	5 Day
0	21UPH113	V. Jose Anto Newis	V. Ess
2	Q1UPH107	A. Joel	4.21
	21UPH111	A. AJISTON ERT	S. Sutikus
4	2/UPH154	S SUBIKS RUBAN	
6	all/PH116	m.S.RIKAS	m.s. Rikos
4	21UPH120		J. Toni Varth
9	21UPH118	M. BINEGIAN	M. Sife
0.	21094101	J. JOHN ANTONY	J. Solan Statut
	21UPH211	FANTINUS MATHEWIM	M-Tropinnortathing.
1100	21UPH115	K.RUBAN	K.Rubar.
11.	21UPH104	P-YOWIN	p. Youring
6.	21UPH 129	v-Harish	the will
13	21UPH131	n. Bharathi	1 sharety.
	21 UPH133		Muy.
16.	21UPH237	Raj Mothish. T	Ray Mothish. T
17.	21 UPH 203		K. Cubrabharatti
	21UPH 251	Chivanaesan. I	J.Chivana com
18.	21UPH 224		J. Antem
19.	21VPH244	R. Pravin raj	R.Ry
20	21UPH208	A. Rowidhusamy.	A. Lourdhusany
	21UPH235		A. 9AKash
22	21UPH128	P. VAMSITHARAN	John .
24	21UPH152	R. Thiruselvan.	Thousehr
25	2101145	1 20 0	A. Vinnet



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INAUGURATION CEREMONY -EINSTEIN QUIZ CLUB-ATTENDANCE SHEET

DATE 07-09-2022

TIME:12.30-1.30PM

TOPIC: WHY QUIZ?

S.No.	D.No	NAME	SIGNATURE
26	21UPH130	Praveen Kumai. Y	Puly.
27.	210PA127	R.Sudhar Son	B. Suellax
28	210PH114	Gi-Symon	Q. Symon
29.	21VPH121	J. SAMSON	S. Gum
30.	21UPH139	P. Prathap Singh	Proffer Singly
31	21UPH1117	C.P. Dhiran Separan	Phist.
32,	21094109	Odhaya Prakash. 8	S. Udm
33,	21UPH123	Justin Raj . S	822
34.	21UPHILO	D. Thamilnes con	BBhilley.
35	21UPH151	M. Satheeswaran	M. Leuttreesewaren
36	21 UPH156	S. Hari Karthick Byan	95 Hearthickeyan
37	21UPHT44	R. Buthivi You an	DR. Pl
38	21UPH138	V. pandiyarajan	V-Banduyaring an
39.	2/UPH106.	cA. Anteny Raj.	Phospie.
40.	21UPH 150	J Infant Johnson raj	J. Dulwerd
41.	21UPH102		S. T. PA "
45.	21UPH201	S. B. Nagathauchan	S.B. aul
43.	21UPH257	A-120BERT AJAY	J. Robert sting
44.	21UPH230	3. BHARATH	3. Bhowath
45	21UPH 229	R. ABISHEK	Rapolite.
46	2 PUPH 2 5 5	V.CHANDRU	V. Chandrel.
47	21UPH218	V. MUNTYAPPAN	v. Muriyappan
48	21UPH155	PØ. SPRAUBNAW	(Expose)
	20UPH121	S. LEO JOHNSON	id- seo Johnson
	21UPH209	T. Christon Pioragia	T. Christian proraja

DEPARTMENT OF PHYSICS

ST.JOSEPH'S COLLEGE (Autonomous), TRICHY-02

Report of Inauguration Ceremony of Einstein Quiz Club

The program started with a prayer song at 12:30 pm on 07-09-2022 in the Physics Department Smart Classroom. The Einstein Quiz Club Coordinator **Dr.G. Samuel** welcomed the gathering and introduced the chief guest.

Dr. N. Ravi, Associate Professor and Head of the Department of Physics Felicitated and encouraged the club coordinators, members and participants for getting involved in this valuable club activities and honored the Resource person **Dr.A.Irudaya Jothi**, Assistant Professor of Chemistry, St. Joseph's College (Autonomous), Trichy by presenting a memento.

Then the crux of the program was started with the special invited talk entitled"Why Quiz?" delivered by the Chief Guest Dr.A.Irudaya Jothi. He motivated the students with his pep talk and discussed the significances of taking part in quiz programs and he made the students more cheerful and confident. His talk was extremely impressive.

Forty four club members and 17 other students attended the program eagerly. The success of the program was many students free willingly came forward to give their name to join as club members immediately after the program was over.

Finally the Club Assistant Coordinator **Prof.B.Mary Dayana** expressed her gratefulness through vote of thanks to Chief guest, Head of the Department of Physics and Members of the Club and Participants.

The whole program was technically supported by Mr.J .Prakash and Master of ceremony was presided over by Ms. S.Jeffila Infancia Roy of I MSc physics shift-II.

The program came to an end at 1:30 pm.

Dr.G.Samuel

Prof.B.Mary Dayana

Club coordinator

Assistant club coordinator

Head of the Department



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REPORT				
Activity	"Workshop on Synthesis and Characterization ofRare Earth Doped Glasses"			
Date & Time	14-09-2022 & 09:30 pm to 04:30 pm			
Topic(s)	 Characterization techniques for Rare Earth Doped Glasses Exploration of bonding parameter(s) and Bandgap of rare earth doped glasses Synthesis, structural and optical characterization of Dy3+, Sm3+,Tb3+ single and Eu3+: Dy3+, Sm3+: Tb3+ co-doped Boro phosphateglasses for white light applications 			
Platform/ venue	Offline mode Smart Classroom-Physics & Fr Savariraj Lab			
Resource Person(s)	Dr. G. Muralidharan Dean, School of Sciences The Gandhigram Rural Institute (Deemed to be University) Gandhigram – 624 302 Dr. K. Marimuthu Associate Professor Department of Physics The Gandhigram Rural Institute (Deemed to be University) Gandhigram – 624 302			
Total no. of Participants	97			
Outcome of the Programme/ Key Points	 Participants realized the significance of therare earth doped glasses. Participants were motivated and encouraged to get involved in the Advance Glass Fabrications. Participants came to know how to prepare the Glass materials using Muffle furnace with simplified techniques. 			

Documents enclosed

HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI:

A Report on Workshop on Synthesis and Characterization of Rare Earth Doped Glasses

(14.09.2022)

Department of Physics organized One day Workshop on Synthesis and Characterization of Rare Earth Doped Glasses on 14.09.2022. Workshop programme was inaugurated by Rev. Fr. Principal at 9.30 am in the smart classroom physics department. Two resource persons Dr. G. Muralidharan, Dean, School of Sciences, The Gandhigram Rural Institute (Deemed to be University), Gandhigram and Dr. K. Marimuthu, Associate Professor of Physics, GRI attended the function.

After the inauguration we arranged 3-input sessions to the audience. First session Dr. G. Muralidharan handled on Characterization techniques for Rare earth doped glasses. Second and Third sessions were taken by Dr. K. Marimuthu on Synthesis, structural and optical characterization of Rare Earth doped materials and Exploration of bonding parameter(s) and Bandgap of rare earth doped glasses.

Second part of workshop is hands on training on Glass Fabrication Technology was given by Dr. K. Marimuthu. During the training programme Sample Preparation, Theoretical Calculations, Band gab Calculations were thoroughly discussed. Finally, participation certificates are distributed.

Workshop came to an end by 4.30 pm.

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HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2



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Workshop on Synthesis and Characterization of Rare Earth Doped Glasses



Talk 1 Title: Characterization techniques for Rare earth doped glasses



Speaker: Dr. G. Muralidharan
Dean
School of Sciences
The Gandhigram Rural Institute (Deemed to be University)
Gandhigram – 624 302

Talk 2 Title: Synthesis, structural and optical characterization of Dy3⁺, Sm3⁺, Tb3⁺ single and Eu3⁺: Dy3⁺, Sm3⁺:Tb3⁺ co-doped Boro phosphate glasses for white light applications



Speaker: Dr. K. Marimuthu
Associate Professor
Department of Physics
The Gandhigram Rural Institute (Deemed to be University)
Gandhigram – 624 302

Talk 3 Title: Exploration of bonding parameter(s) and Bandgap of rare earth doped glasses

Registration Details

Registration Fee
Research Scholars & PG Students - Rs. 100/Faculty members - Rs. 150/-

Last Date for Registration: **12**th **September**Registration and Payment link

Scan QR



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Programme Schedule

09:30 am - 10:00 am Inauguration

10:00 am - **11:00** am Session I

11:15 am - **12:15** pm Session II

12:15 pm - 01:00 pm Session III

02:00 pm - 04:00 pm Hands-on Training

Convener



Dr. N. Ravi
Head and Associate Professor
Department of Physics
St. Joseph's College (Autonomous)
Tiruchirappalli 620002

Co-ordinator



Dr. P. Christuraj
Assistant Professor
Department of Physics
St. Joseph's College (Autonomous)
Tiruchirappalli 620002

Contact Details

Dr. N. Ravi, Convener Dr. P. Christuraj, Co-ordinator Ph. No.: 9443429868 **Ph. No.:** 8940911222

Mail ID: ravi_ph1@mail.sjctni.edu Mail ID: christuraj_ph1@mail.sjctni.edu



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Workshop on Synthesis and Characterization of Rare Earth Doped Glasses























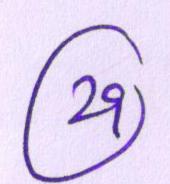












WORKSHOP ON SYNTHESIS AND CHARACTERIZATION OF RARE EARTH DOPED GLASSES (14.09.2022)

PARTICIPANTS REGISTRATION LIST - SJC PHYSICS FACULTY

SNo	NAME	DESIGNATION	ADDRESS	SIGNATURE
1/	Dr. N. RAVI	Associate Professor & Head	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Larine
2.	Dr. S. ALFRED CECIL RAJ	Associate Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	eis
3/	Dr. I. JOHNSON	Associate Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	2351
4.	Mr. A. PATRICK PRABHU	Associate Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	
5.	Dr. B. KANICKAIRAJ	Associate Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Mrici
5.	Dr. J. CHARLES	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	de .
7.	Mr. S. DOMINIQUE	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	1 Document
8.	Dr. P. CHRISTURAJ	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Day)
9.	Dr. A. MAGGIE DAYANA	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	d. Mughi Degone
19.	Dr. A. LEO RAJESH	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	1 Milming
1,1.	Dr. M.M. ARMSTRONG ARASU	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Men
12.	Dr. A.J. CLEMENT LOURDURAJ	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Allerna
13.	Dr. M. ANTONY AROCKIARAJ	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	
14.	Dr. R. JERALD VIJAY	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Lye_!
15.	Dr. S. DINAKARAN	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	S. Henakerlan

16.	Dr. S. ANBARASU	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Antigas
17.	Dr. A. ANTONY RAJ	Assistant	Department of Physics, St. Joseph's College	A. (Intsuri.
		Professor Assistant	(Autonomous), Tiruchirappalli-620002 Department of Physics, St. Joseph's College	C Conis
18.	Dr. G. SAMUEL	Professor	(Autonomous), Tiruchirappalli-620002	J get
19.	Dr. H. JOY PRABU	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Fot ratuit.
29.	Dr. S. LOURDURAJ	Assistant	Department of Physics, St. Joseph's College	9 800
		Professor Assistant	(Autonomous), Tiruchirappalli-620002	O. Davetra
21.	Dr. P. ADAL ARASU	Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	19.3h
22.	Dr. M. LAWRENCE	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	M. Lawson
23.	Dr. A SINTHIYA	Assistant	Department of Physics, St. Joseph's College	1000
		Professor	(Autonomous), Tiruchirappalli-620002	astring
24.	Ms. B. MARY DAYANA	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	B.M. John
25.	Mr. G. NOVIN SENETRA ROY	Assistant	Department of Physics, St. Joseph's College	
		Professor Assistant	(Autonomous), Tiruchirappalli-620002	
26.	Dr. M. AUGUSTIN	Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Il-In
27.	Dr. G. GENIFER SILVENA	Assistant Professor	Department of Physics, St. Joseph's College	G. hen h silvery
28.	Dr. S. REX ROSARIO	Assistant Professor	(Autonomous), Tiruchirappalli-620002 Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli, 620002	an Di
29.	Dr. A. ALEXANDAR	Assistant	(Autonomous), Tiruchirappalli-620002 Department of Physics, St. Joseph's College	Na S
		Professor	(Autonomous), Tiruchirappalli-620002	- Co
30.	Ms. F. CELIN HEMALATHA	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	(Col. 0 1)
31.	Dr. S. SELVAKUMAR	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli-620002	Ams
20	Mr. D. JOSEPH JAMES	Assistant	Department of Physics, St. Joseph's College	0 0
32.	IRUDAYARAJ	Professor	(Autonomous), Tiruchirappalli-620002	(W Joseph James

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23	PHY222_6615	G. SHEEBA SHARON	Research Scholar	National College	Physics	Tiruchirappalli	4. Sleft.
24	PHY222_6622	JENET ROOTH. J	Student	Cauvery College for Women (Autonomous)	Physics	Trichy	& genet ,
25	PHY222_6628	K C VIDHYA SRI	Student	A. V. C college autonomous	Physics	Mannampandal	Dilyton -
26	PHY222_6629	LAVANYA RAJENDRAN *	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	R. Laure
27	PHY222_6631	BRINDHA.M	Student	A.V.C. College (Autonomous)	Physics	Mannambandal	MiRidL
28	PHY222_6632	MANJU. T	Student	A.V.C. college (Autonomous)	Physics	Mannambandal	T. Manje
29	PHY222_6633	HARIKRISHNAN. K	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	12 Harings
30	PHY222_6634	MURALIDHARAN.M	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	M.New -
31	PHY222_6635	SRISHANMUGI. M	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	Modern
32	PHY222_6636	ABINAYA. S	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	SAR O
33	PHY222_6637	KUZHALINI. R	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	R BROD
34	PHY222_6639	KIRUTHIKA R A	ASSISTANT PROFESSOR	CAUVERY COLLEGE FOR WOMEN	PHYSICS	TRICHY	RADIME
35	PHY222_6640	PRIYADHARSHINI. B	Student	A. V. C. College (Autonomous)	Physics	Mannambandal	·B. Proyaler
36	PHY222_6641	KAVINILAVU.A	PG student	Cauvery college for women (Autonomous)	Physics	Thiruchirapalli	J. Mrcyawy
37	PHY222_6649	DR. R. THIRUMURUGAN	Assistant Professor	A.V.C. COLLEGE (AUTONOMOUS)	PHYSICS	MANNAMPANDAL MAYILADUTHURAI 609 305.	R. Firm
38	PHY222_6650	DR. N. SANGEETHA	ASSISTANT PROFESSOR	A.V.C. COLLEGE (AUTONOMOUS)	PHYSICS	MANNAMPANDAL MAYILADUTHURAI 609 305.	N. 2 From
39	PHY222_6654	D KARUNANITHY	Assistant Professor	Kongunadu College of Engineering and Technology	Physics		Simo
10	PHY222_6658	GNANENDHIRA T	Student	Avc college autonomous	Physics	Mayiladuthurai	a.Comb.
41	PHY222_6667	AKASH	Student	Avc college autonomous	Student	Mayiladuthurai	J. Theast.
12	PHY222_6669	PRAVEEN KUMAR	Student	Avc college autonomous	Physics		12 parceluna
13	PHY222_6671	ARAVIND M	STUDENT	AVC COLLEGE (AUTONOMOUS)	PHYSICS	MANNAMPANDAL	Mahoon

MA. CATHIRIN PREETHI - Résearch National Collège. (8883406563) Scholar

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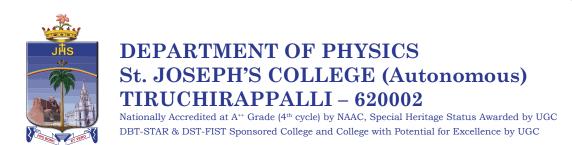


WORKSHOP ON SYNTHESIS AND CHARACTERIZATION OF RARE EARTH DOPED GLASSES (14.09.2022)

PARTICIPANTS REGISTRATION LIST

SNo	NAME	DESIGNATION	ADDRESS	SIGNATURE
1./	P. GEETHA	P.61	MUTHAVAMMAL COLLEGE OF ARTS AND SCE	Progre.
2,/	C. SRIVAISHNAVIDEVI	PGI	MUTHAYAMMAL COLLEGI "	c.s.Vadi.
3/	S. VITAY	Por	11 11	Civi a
A/	A. VIJAY	PG ₇		A. Cint.
51	S. Shanmuga Priya	PG	Cauvery collège for women	8. Shanmuga Penys
6/	DV. M. H. HAJA SHERIFF	Asst-Protin	A.v.c. College Cars/ Mannage	A 100 1 - 1
	Dr. T. NOORUNNISHA	Asst. Profin	Cauvery College for Women (A)	ON Taishe
		Physics		
8,	Dr.R. Mekala	Asst Profin	Couvery College for Women (A)	The wisher!
	RDhanapriya	PGhysics	Cauvery College for Women (A) Cauvery College for Women (A)	P.P.
10/	B. SHANMUGAPRIYA	Ph/Decholar (Physis)	cauvery collège for women (A)	B. Mabus.
W.	BOY IC KANNAGIE	Asst-Profinithy		Dr. k hannays.
12~	R.SELVI	P.Gt	MUTHAYAMMAL COLLEGE DE ART & SCIENCE	Robbig
13/	M. VISHALI	p.02	MUTHA YAMMAL COLLECTE OF AMISSION	he.o.
IA	P. Gowtlan	P.G))	D. Cur/al

D-A. Lethaz. rusthayannal college à Arts 15° DA. Tanaethanoin PG and saince 16- P. SANKARI - ASSE. Prof of Physics MIT college of AMS & scrence P. 291 for women, mustri IT Dr.M.VIJAYALAKSHMI ASSA. Prof-of Physics M. Viglaldshor 150 A.V.C. college (Auto.) Mannampandal. 18 v. Modhumitha A.V.C. collège (Autononione) Nr Day 19. Gr. Elalisqq Mannanpardal A.V.C. college (Autonomous) mannampardal G. Sally. (28) P. SRIDHAR PU Muthayenmail College of Arsts and Exercise (Rasiparram) 1º Svidles Byls. ARUN KUMAR LOUIS CHARLES (CARLES) 50 Marshall Markey in the shall provide the shall be shal AY POSTGUOUS MACHER BLOSSON - Grand Description - Land Control



Certificate of Participation

This is to certify that _		

has participated in "Workshop on Synthesis and Characterization of Rare Earth Doped Glasses" on 14th September 2022 organized by the Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli - 620 002.



DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE(Autonomous)

TIRUCHIRAPALLI – 620002

Nationally Accredited at A++ Grade (4th cycle) by NAAC & College with Potential for Excellence by UGC DBT - STAR & DST - FIST Sponsored College

Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu

REPORT			
Activity	"Physics Association Special Online Lecture"		
Date & Time	22-9-2022 & 12:00 pm to 01:30 pm		
Topic(s)	"Astronomy in a nutshell"		
Platform/ venue	Offline mode Smart Classroom-Physics		
Resource Person(s)	Dr. M. Chrisphin Karthick Scientist C and Deputy Coordinator-SCOPE (science communication public outreach and education), Indian Institute of Astrophysics, Koramangala campus, Bengaluru		
Total no. of Participants	90		
Outcome of the Programme/ Key Points	 Students are acquired the knowledge in fundamentals of astronomy and major branches of astrophysics namely; Solar, planetary, galactic and extra galactic. Students are learnt the astrophysical theory, observational physics, observations rules and physics behind telescopes. Students came to know the qualification and eligibility for various programmes offered at IIA, Bengaluru. 		

Documents enclosed

HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2.

Nationally Accredited at A++ Grade (4th cycle) by NAAC & College with Potential for Excellence by UGC

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Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu

Physics Association

Invites you to a Special Online Lecture on

ASTRONOMY IN A NUTSHELL

By

Dr. M. CHRISPHIN KARTHICK

Scientist C & Deputy Head-SCOPE (Science Communication Public Outreach)
Indian Institute of Astrophysics
Bengaluru - 560 034

Date : 22nd September 2022

Time : 12.00 PM

Venue: Physics Smart Classroom

Dr. N. Ravi

Dr. R. Jerald Vijay

Dr. M. Lawrence

HOD

President

Vice President

Physics Association Special Online Lecture_Report

The Physics Association organized a special online lecture for the for the month of September on 22-9-2022 at Smart Classroom (department of Physics) between 12.0 0 and 1.20 PM. The faculty and students of both shift-1 and shift-2 of the department of Physics participated in the programme. Dr. M. Chrisphin Karthick, Scientist C and Deputy Coordinator-SCOPE (science communication public outreach and education), Indian Institute of Astrophysics, Koramangala campus, Bengaluru was the chief guest of the day.

The meeting began with a prayer song. Dr. I. Johnson, Associate Professor of Physics presided the meeting by welcoming the gathering and introducing the chief guest to the audience.

Dr. M. Chrisphin Karthick delivered the chief guest address on the title "Astronomy in a nutshell". He, introduced the fundamentals of astronomy by explaining the major branches of astrophysics namely; Solar, planetary, galactic and extra galactic. He also outlined the glimpses astrophysical theory used for observation and indicated that astronomy is an observational physics. He also laid out the methods of observations and the rules and physics behind telescopes. Later he gave a visual tour of all astronomical facilities available in India and gave a comparison with some of modern telescopes such as James Web. He offered career guidance by pointing out the qualification and eligibility for various programmes offered at IIA, Bengaluru. During discussion session, He answered several students doubts and queries. He also pointed out the hints to get internships and procedure for visiting telescopes under them like Kodaikanal Solar observatory, The Vainu Bappu Observatory at Kavalur and so on.

R. Jerald Vijay, President of Physics Association and Assistant professor of Physics thanked everyone who supported the for the success of the meeting. Ms. Asha, student, II MSc shift 2 did the master of ceremony for the entire programme.

HAD
HEAD. DEPT. OF PHYSICS
St. JOSEPH'S COLLEGE
(AUTONOMOUS)
TIRUCHIRAPPALLES

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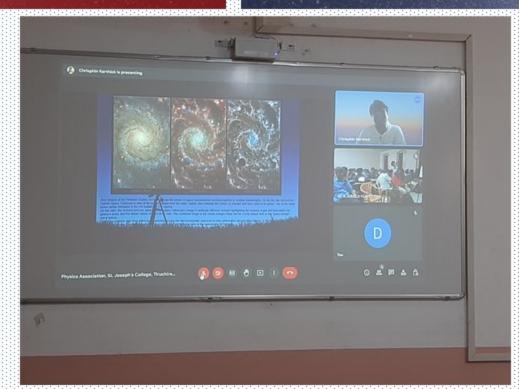
Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu



Time : 12.00 PM Venue: Physics Smart Classroom

Physics Association ASTRONOMY IN A NUTSHELL













Student Attendance

DATE: 22-09-2022 TIME: 12:00 PM VENUE: Physics Smart Room

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DATE: 22-09-2022 TIME: 12:00 PM VENUE: Physics Smart Room

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22 UPH 222	- C. Maria Terance	C.A. Z
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22 UPH232	R. Madhan	R. Malhan
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22 UPH225	Aakash.s	
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22 UPH 250	R. AKASH HARI	R.Abashhan
22 UPH244	M. Grokelakrüshnan	M. brogulatorishras
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Student Attendance

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22 UPH 131	Anthony Prathab.A	ALPEOB A
22 UPH 102	F-Vishva Samuel	F.veshvaa
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22 UPH 222	- C. Maria Terance	C.A. Z
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22UPH 152	U. Vetriselvan	
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22 VPH232	R. Madhan	R. Malhan
2UP1+248	P. Rainand	Do Alas
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PHYSICS ASSOCIATION Special Online Lecture

Student Attendance

DATE: 22-09-2022 TIME: 12:00 PM VENUE: Physics Smart Room

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22PPH105	Joline Nisha B	ou
	J. Holeena	J. Helmb.
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Merwin Roy. NT

22UPH 101

R. Kapilan

Janely, Diring

PHYSICS ASSOCIATION Special Online Lecture

Student Attendance

DATE: 22-09-2022 TIME: 12:00 PM VENUE: Physics Smart Room

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22UPH214	K. Dinosh kuman	k. Direct human
	& Hariharan	& hickey
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22 UPH225	Aakash.s	
22UPH230	Nikil.c	Nikil.C
22 UPH 250	R. AKASH HARI	R. Akashhan
22 UPH244	M. Grokulakrüshnan	M. brokylakoushras
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2022-2023





Innovation club

Department of Physics

Night Swuatch

Let's watch the stars fill the night with magic.

Christy Ann Martine

Night Sky Watch:

The Stephen Hawking innovation club was organised a live Night Sky observing session in the campus of St. Joseph's College on 23 September 2022 at 7:00 pm. Nearly 14 students from shift 1 have been participated.

The Night sky watch was accompanied and lead by Dr P Christuraj and Dr G Samuel.





Jupiter through Messier Telescope:

The Jupiter, being the brightest object in the sky during the observation, was observed and was photographed. It was mesmerising to watch the heavenly beauty by the telescope. Looking from Earth, when the sun sets in the west, Jupiter rises in the east. Additionally, Jupiter came closer to earth than it has since 1963.



The above attached photograph is processed to be a more detailed image.

Saturn through Messier Telescope:

Next the planet Saturn was captured using the Messier Telescope.



The image captured was very small but was processed to give the above image. The colour was changed to study the planet's structure. After the observation of Jupiter and Saturn, we observed the Orion Nebula and star clusters like Pleiades in the early morning.

By the help of seniors, juniors learned to handle the telescope. They also learned to calibrate the telescope and the uses of parts





HEAD. DERT. OF PHYSICS
SL JOSEPH'S COLLEGE
(AUTONOMOUS)
TIRUCHIRAPPALLI 2

NIGHT SKY OBSERVATION

ATTENDANCE SHEET (23.09.22 - 24.09.22)

SERIAL NO.	NAME	DEPARTMENT NUMBER	SIGNATURE
١.	S. Sarjas trumar	21UPH234	SA
2.	Navien. V	21UPH133	way.
2.	B. Volhaya baskar	22UPH128	DA.
4.	S. MOHAMED DANISH	220PH116	5. Mohal Dath
5.	J. Mariamichael raj	22 UPH 11 F.	John John
6.	G. Avinash	21094223	la. Aug
T.	CHANDRU V	21UPH255	V. Chart
8.	John Antony	21094101	John Sett
9,	Balamurugan 3	20014 253	S.Bah Z.
10.	A azhimukilan. G	20UPH225	Indg only
11	Asrar Ahmed	20 UPH 249	Svorflund
12.	Saravanan	20UPH 221	M. Salavanan
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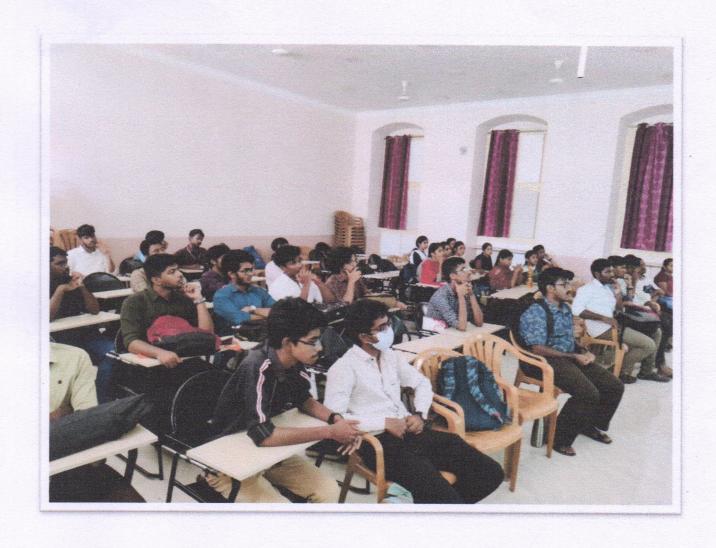
Innovation club

Department of Physics

Live solar observation

2022-2023

Date: 23/09/2003



Outlook

To create awareness on sunspots and solar flares and other things related to the Sun among the students, the live program was organized. Beginning of this program Mr. Aazhimukilan from III B.Sc. Physics B from shift I gave a lecture on sunspots, and he explained how the sun spots are created and what was the past and present activities.



Live stream

At the same time, The another group is tracking the sunspots through Messier telescope and they telecast live stream on Google Meet from this data Aazhimukilan explain the shape and facts about sunspots, he tells about Solar flares, and how they affect us. He said how earth's magnetic field protect us from solar flares and he discuss about the life cycle of sunspots.





After he finished his lecture, the Head of the Department Dr. N Ravi asked some clarifications on it. And he gave short speech about this club's activity. The students got clarifications over their doubts regarding sun spots.



The students from I MSc. Physics Shift-I and the members of Innovation club from Shift I &II participated in this program.

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SUN SPOT LIVE OBSERVATION ATTENDANCE SHEET (23.09.22)

SERIAL NO.	NAME	DEPARTMENT NUMBER	SIGNATURE
1.	S. Danjay Duman	2084234	
2.	J. SAMSON	2 VPH 121	J. 841
3.	V. HARISH	21 UPH 129	#X-fanj
4.	Naveen. V	21UPH133	Colain.
5-	P.YOHIN	21UPH104	P. Young
6,	J. Toni Vasanth	21VPH120	J. Towall
7.	of Bharathi	24UPH134	Sk. Boutst
8.	M. SINEGIAN	21 UPH118	M. Sil
9.	R. Dudharson	21084127	R. Treshay
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h,	B. Udhaya barkar	22 UPH 123	Duly .
12.	S. MOHAMED DANISH	22UP14110	3. Maharal Dais
13-	J. Maria michaelraj	22UPH115	J. My
14,	Amlan Ebi Darwin, P	22 UPH104	P. And only
15.	William ANTONY. T	22 UPh 119	Durce gotong
16-	vishya samul- F	22 UPh 102	F. vishva
17.	S. Aggywaran	22UPH126	J. dog
18.	Sarthosh Kuman	22UPH153	Shail St.
19	Anthony Prathab. A	22 OPH 131	Stephens A.
20	P. JoSHUVA	2201116	P. Joshum .

ATTENDANCE SHEET

SERIAL NO.	NAME	DEPARTMENT NUMBER	SIGNATURE
21.	B.shiva	22 UPH 130	B. Sty
22.	R. HARTHIKEYAN	22UPH 150	R-Hardhilleyan
88.	B.UE) MURUGIAN	BEITHAUBB	B.NSI Wasadan
24.	R. Kapilan	22 UPH10)	R.Kouis
25	J-James Anandh	22UPH132	J. Hams smalls
26	MK. Jeeva Poussad	22UPH141	Jambust !
27	P. Vyaychoorles	22UPH111	P. Viingeluls.
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33	Vishal Wibbakan	21004239	&mail .
34	R. AbiShet	21 UPH 229	Chi
35	CHANDRU V	21UPH265	V. Charl
36	G. Seinash	21UP H 223	A. Aug.
37	S. BHARATH	21UPH230	S. Bhareeth
38.	A. ROBERT AJAY	21UPH 257	A. Robert Hay
#039	J. JOHN ANTONY	21004101	John Antor: J
40	s. Balamurugan	20UPH253	S. Balle.

ATTENDANCE SHEET

SERIAL NO.	NAME	DEPARTMENT NUMBER	SIGNATURE
ч	S. Harish Armindle	20UPH623	Harfe Linder
42	Aasfrimutilan G	20VPH286	magoris
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	REPORT
Activity	"Rev. Dr. G. A. SAVARIRAJ SJ ENDOWMENT LECTURE"
Date & Time	28-9-2022 & 11:30 pm to 01:00 pm
Topic(s)	"Development of Device Quality Single Crystals for Practical Device Applications"
Platform/ venue	Offline mode TV Hall
Resource Person(s)	Prof. P. Ramasamy President Indian Association for Crystal Growth Chennai, India.
Total no. of Participants	200
	Students understood the various methods of crystal growth such as Melt growth, solution growth and vapour growth and the growth of device quality crystals with bigger size.
Outcome of the	especially Silicon crystal growth and facilities
Programme/ Key Points	established in laboratory.
	Students came to know the need of unidirectional crystal growth and the development of unidirectional growth from solution.

* Documents enclosed

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"Development of

Device Quality Single Crystals for

Practical Device Applications"

28th September 2022

4

11:30 am

2

TV Hall



Prayer Song

Tamilthai vazhthu

Welcome Address

Dr. R. Jerald Vijay Assistant Professor

Felicitation

Rev. Dr. M. Arockiasamy Xavier Principal, St. Joseph's College

Introducing the Speaker

Dr. N. Ravi

Head and Associate Professor, Dept. of Physics

Special Talk on "Development of Device Quality Single Crystals for Practical Device Applications"



Prof. P. Ramasamy
President
Indian Association for Crystal Growth
Chennai, India.

Vote of Thanks |

Dr. M. Lawrence Assistant Professor

National Anthem



Scan the **QR** to join the meeting



Report on Dr. G.A. Savariraj SJ Endowment Lecture held on 28th September, 2022.

The Department of Physics, St. Joseph's College (Autonomous) conducted Dr. G.A. Savariraj SJ Endowment Lecture on 28th September, 2022 held at TV Hall. The Resource Person for this session was our alumnus Prof. P. Ramasamy, President, Indian Association of Crystal Growth, Chennai, Rev. Dr. M. Arockiasamy Xavier SJ, Principal, was presided over the Endowment Lecture.

The programme commenced at 11. 30 AM with prayer song followed by Tamilthai vazhthu. Dr. R. Jerald Vijay, Assistant Professor and Physics Association President welcomed the gathering. Rev. Dr. M. Arockiasamy Xavier SJ, Principal, St. Joseph's College (Autonomous), facilitated the function. He appreciated the Department of Physics for conducting various programmes for motivating the students. Also, he insisted the students to interact with the resource person and enrich their knowledge. Dr. N. Ravi, Head, Department of Physics shared the personality of Dr. G.A. Savariraj SJ, especially his contribution towards obtaining Autonomy status in 1978. In this occasion Dr. N. Ravi remembered Prof. A. Antony Raj, who instituted the Dr. G.A. Savariraj SJ Endowment Lecture in the year 2017. Followed by he introduced the resource person Prof. P. Ramasamy. The resource person presented the endowment lecture on the topic "Development of device quality single crystals for practical applications". Beginning of the session Prof. P. Ramasamy remembered the faculties who taught him in SJC and he thanked Prof. Chinapan and Prof. Sebastian for recommending him for doing Doctoral programme at University of Madras. He began his lecture with the various methods of crystal growth such as Melt growth, solution growth and vapour growth. Then he was presented the growth of device quality crystals with bigger size, especially Silicon crystal growth and facilities established in his laboratory. Finally, he described the need of unidirectional crystal growth and the development of unidirectional growth from solution, later named as Sankaranarayanan and Ramasamy method. Also, he discussed the various advantages of the method and he shown the photograph of various crystal grown in his laboratory using the same method. The session ended with participant's interaction. Dr. M. Lawrence, Assistant Professor and Vice President of Physics Association proposed the vote of thanks. The programme ended with National Anthem. Dr. A. Antony Raj, Assistant Professor of Physics act as the MC of the Programme.

Shift-I Students from I PG, II PG, III UG and II UG-B Physics were attended the Endowment lecture. Roughly 200 participants including students and research scholars were attended the lecture. The meeting came to an end by 1:00 PM.

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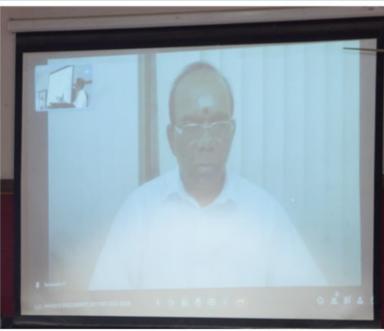


28th September 2022



TV Hall



















Rev. Dr. G. A. SAVARIRAJ SJ ENDOWMENT LECTURE (Since 2017)

(Instituted by Prof. S. Antony Raj, Former Head, Dept. of Physics, SJC)

Rev. Pr. Cr.A. Savariray SJ Endowmond Lecture



28.09.2022 @ 11.30 am

	STUDE	ENTS NAME LIS	T I I I I I I I I I I I I I I I I I I I
Department	PHYSICS		
Class	B Sc Physics-B	Batch 2020	

S.no	Register Number	Name	
1	20UPH203	ABHILASH N	N. Albhilash D. Russo Benaya J. L. Davis Kevis
2	20UPH205	RUSSO BENAYA D	D. Russo Benaya
3	20UPH206	DAVIS KEVIN J L	J. L. Davis Kevis
4	20UPH208	KAVI RAJ P G	225000
5	20UPH209	AJAY R .	R.Afory
6	20UPH210	ANTO PEPPIN T	T. Antopeppin
7	20UPH211	MARIA IGNESIOUS S	
8	20UPH212	JOY ALOSHIYAS A	A Sor Alashigian
9	20UPH213	ANDRUS S	8. Andrus
10	20UPH214	JANARDHAN S	T ' /
11	20UPH215	JERIN JEYANTH I	I. Jerin Jeypouth
12	20UPH216	CHRIS PATRICK PIO A	the pl
13	20UPH217	GEORGE BANNI	Opens!
14 ~	20UPH218	SHREYASH KUJUR	Rujus
15	20UPH219	ADONIS PEO M	
16	20UPH220	JOSEPH AARON E	3- Joseph Dovon.
17	20UPH221	SARAVANAN M	M. Squanan
18	20UPH222	MANOJA	Johnson Jane
19	20UPH223	FAAZILS	5.78
20	20UPH224	PREM KUMAR M	M. Purcht.
21	20UPH225	AAZHIMUKILAN G	1 & Solombites
22	20UPH228	JEGAN LAWRENCE J	5. Jagas lawronce
23	20UPH229	MICHAEL JACKSON A	
24	20UPH230	KISHOREKUMAR S K	
25	20UPH231	CLAMENT ROCH V	y, danson & soch
26	20UPH233	PRANAV BALAJI J	Prom Robin
27	20UPH234	DEVAPRIYANS	3. Deleyds
28	20UPH235	TANISHQ RAJA S G	J. G. Janken Reian
29	20UPH236	BHARATHI P	
30	20UPH237	AGILAN N	N. Agilan.
31	20UPH238	PRASANTH S	
32	20UPH239	MATHANPRASATH M	M. Mathapenet
33	20UPH240	HARISH RAJA R	M. Markapsondl P. Haish Daya
34	20UPH241	THOMAS JABAMALAI RAJ J	
35	20UPH242	SOWNDHAR S	S. Soundhas
36	20UPH243	ARUL STEPHEN A	A- Attolona
37	20UPH244	GNANAPRAKASH D	12 ANTHO
38	20UPH245	ARUL I	
39	20UPH246	PREM ANAND M	W. tot.
40	20UPH247	CYRIL A	A. Cyrit.
41	20UPH249	ASRAR AHMED	Asstarational
42	20UPH250	VINOTH M	M.V.

Rev. Dr. Cr.A. Savarirais SJ Endowment Lecture

28.09. 2022 @ 11.30 am

	STUDENTS NAME LIST	
Department	PHYSICS	
Class	M Sc Physics-A Batch 2021	

S.no	Register Number	Name	
1	21PPH102	SNOWLINV	Prowlen.V
2	21PPH103	INIGO VALAN E Efinal	111
3	21PPH104	ANTONY BOSE X	X, Addition
4	21PPH105	JACKSON J	fail
5	21PPH106	MAHITH SARMATK A'S	
6	21PPH107	JENOFIAL J Ab	
7	21PPH108	SAGAYA SHINEE H	H. 28 P.
8	21PPH109	ANTON DOMINIC MESIYAS J	Hank Der My
9	21PPH110	ROMMAL F KENNEDY AL	
10	21PPH112	GODWIN RAJ M A	(The state of the
11	21PPH113	KAVIYARASAN S	8 met
12	21PPH114	JEROME JEGAN RAJ E	3.7
13	21PPH115	VIJAIKRISHNAN R	R. and
14	21PPH116	PRASHANTH J	J. Pashard
15	21PPH119	JENCY NIVEAA S	Sprincan
16	21PPH120	STEEVE SHINY G	The .
17	21PPH121	ANTOCHRISTOPHER P	Homes .
18	21PPH122	AARTHI A	A. en
19	21PPH123	SHATHIKA S	Shattiter
20	21PPH124	ANTONY JEYA MONIKA S	Shoothiten S. Marilya
21	21PPH125	MEGADIN ROHITH A	A. Much Robin,
22	21PPH126	CHARLI EDISON P	p. charli Edian
23	21PPH127	JOE PUSHBA SHINI J	"Finanz
24	21PPH128	HARINI R	Ri
25	21PPH129	PRASANNA VENKATESH S Ab	
26	21PPH130	PRAKASHRAM T	1200
27	21PPH131	ASHVITHA KIRUBA S	S. Allwith

Rev. Dr. Gr.A. Savariray SJ Endowment Lecture

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28.09. 2022 @ 11.30 am

	STUDE	NTS NAME LIS	
Department	PHYSICS		
Class	B Sc Physics-B	Batch 2021	

S.no	Register Number	Name	
1	21UPH201	NAGATHARSHAN S B	
2	21UPH203	SUBRABHARATHIK	
3	21UPH205	JERALD N	N. March
4	21UPH207	MARSHALA	A-Warran
5	21UPH208	LOURDHUSAMY A .	bu ralnuseiny A
6	21UPH209	CHRISTON PIORAJA T	T. Christon Puoraja
7	21UPH211	FANTINUS MATHEW M	M- Futime Mothers
8	21UPH212	EUGENE REGINALD S	T. Christon Piwraja M. Futim M. fly. S. Eugene Reginald.
9	21UPH213	TAMILAMUTHAN R	
10	21UPH214	VISHWAT	P. Hy Shusa
11	21UPH217	MARFY PRAKASH J	17m
12	21UPH218	MUNIYAPPAN V	v. runiyappan
13	21UPH222	ROHITH J	J. Rohith
14	21UPH223	. AVINASH K	Janansku Janab
15	21UPH224	ANTO MERVIN J	Jantomer 3
16	21UPH227	SUDHAN YACOB A	Justion / ciaso
17	21UPH228	CHARLES JUSTIN RAJ A	B. Charles Turkh raj
18	21UPH229	ABISHEK R	R. Steins
19	21UPH230	BHARATH S	S. Bharath
20	21UPH231	JOYAL AKASH J	
21	21UPH232	AROCKIA AVINASH A	1. Was
22	21UPH233	BIPIN JACKSON R	bipin Jackson
23	21UPH234	SANJAY KUMAR S	S
24	21UPH235	AKASH A	A. AKasy
25	21UPH236	SATHIYANATHAN M	- Ri Mithish. T
26	21UPH237	RAJMOTHISH T	Ki Nychur
27	21UPH238	ARAVINTH S	Chrain was Cons
28	21UPH239	VISHAL VIBHAKAR R	
29	21UPH240	JENNITHSON J	Dent 95
30	21UPH242	RABIC AROCKIA VIVIN K	Kilen
31	21UPH243	JANAA K	Lavar
32	21UPH244	. PRAVIN RAJ R	R. Ruff
33	21UPH247	MARSHAL A	A. marshal
34	21UPH248	GEORGE SARAN B	B. Greorge Sonan
35	21UPH249	SIBI SUMAN J	
.36	21UPH251	CHIVANAESAN J	Clour
37	21UPH252	ELANGO P	P. Etango
38	21UPH255	CHANDRU V	J. Charetty
39	21UPH256	BENIN RAJ E	
40	21UPH257	ROBERT AJAY A	A. Robert Ajaj

Rev. Dr. G.A. Sovarison SJ Endownant lecture

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28.09.2022 @ 11.30 am

	STUDENTS NAME LIST	
Department	PHYSICS	
Class	B Sc Physics-A Batch 2020	

S.no	Register Number	Name	
1	• 20UPH103	ANTONY JAMES A	
2	20UPH104	FREDRICK JOEL F	Fredrick . F
3	20UPH105	STEPHEN ROY G	G. Sauf
4	· 20UPH108	ROSHAN JOEL K	5-Acquein collin
5	20UPH109	ALLWIN EDISON K.	K-ACKAPINECTO
6	20UPH110	SIMON CHRISTOPHER J	James Marine
7	20UPH111	MOSES DINAKAR P	P. Moses Dinalcon
8	20UPH112	PATRICK ANTONIO A 3.84	
9	20UPH116	VINUA	
10	20UPH117	JOASH RICKY J	
11	- 20UPH118	AROCKIA AAKASH S	
12	20UPH121	LEO JOHNSON S	R. Harrison
13	20UPH122	HARISH R	R. Harida
14	20UPH123	JESVIN ABISHEK L	L. Jesm
15	20UPH124	SIVABALAN S	
16	· 20UPH125	MADHAN R	
17	20UPH126	AUSTINRAJ A	A. Amtin nat.
18	20UPH127	SANJAY KUMAR G P	A. Amtin nat. Gr. P. Spjanlag
19	20UPH129	SESHAIYAN V S	N. S. Dohn.
20	20UPH130	DOJER JENI B	Defor B gen.
21	20UPH131	DAMIEN MARTIN J	J. Ruf Pat
22	20UPH132	ANTONY JEROLD A	A. Antony forold
23	20UPH133	ALFRED GENUWIN R S	atte de
24	20UPH134	DANIEL E .	E. Daniel.
25	20UPH135	AUGUSTIN JOSHUA J	J. Rujoshua.
26	20UPH136	KABILAN G	and
27	20UPH137	KRISHNA KUMAR D	o wishnakuma
28	20UPH138	JEREMIYAH TITUS J	J. Ferenicyal This
29	20UPH139	BOOPATHI RAJA T	T. Boopathi Raja
30	20UPH140	KISHORE KUMAR T	T. Boopathi Raya
31	20UPH143	ASHWIN A	
32	20UPH144	SANJAY P	P. Saryay
33	* 20UPH145	ARIKARAN G	
34	20UPH148	BLAIZE BARBARIGO X	X-Blin BarBrigo
35	20UPH149	NAVEEN RAJ M S	1
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28.09.2022 TVHALL

I PG PHYSICS 28,09,2022 @ 11.30am

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3 22PPH105 - Josline Nesha B. 27 22PPH133 - K. Origamini

@ 22PPH106 - B. Delphine

722PPH107 - A. J. Amly

Total Present - 25

(8) 22PPH 108 -

@ 22 PPH109 -

@22PPH110 - To xavitor Jorus Austraya

@ 22PPH 111 - B.S. Sutti

1 22 PPH112 - K. Jayaram

13 22 PPH113 - GIOKUL. S.

@22PPH 115 - M. Smaile Princy.

@22PPH117 - M.J. Butt

1622 PP H118 - Jollin Marion

@22PPH120 - Naveen kuman

0822PPH 122 - Wemiller A

(3)22PPH 124 - (AAA)

@22PPH125 - (FAP)

2022PPH 126 - B. Refunder

222PPH127 - Thaiancia Teena Mary. J.



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REPORT		
Activity "Dr. S. GUNASEKARAN ENDOWMENT LECTU		
Date & Time	28-9-2022 & 03:00 pm to 04:30 pm	
Topic(s)	"Focal Engineering in Solar Energy Systems"	
Platform/ venue	Offline mode TV Hall	
Resource Person(s)	Prof. P. M. Anbarasan Professor, Department of Physics Periyar University Salem, Tamil Nadu	
Total no. of Participants	170	
Outcome of the Programme/ Key Points	 Learnt important types of photovoltaic devices and system available at present and fabrication process of solar cells such as silicon solar cells & Dye-Sensitizes solar cells. Acquired knowledge of experimental fabrication and computational designing of the devices using Density Functional Theory. 	

* Documents enclosed

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"Focal Engineering in Solar Energy Systems"



() 03:00 pm

TV Hall

Dr. S. GUNASEKARAN ENDOWMENT LECTURE-III (2022-2023)

(Instituted by Dr. S. Gunasekaran)

Prayer Song

Tamilthai vazhthu

Welcome Address

Felicitation

Introducing the Speaker

Dr. R. Jerald Vijay Assistant Professor

Dr. P. Rajendran

Deputy Principal

Dr. S. Lourdurai

Assistant Professor

Special Talk on "Focal Engineering in Solar Energy Systems"



Prof. P. M. Anbarasan
Professor, Department of Physics
Periyar University
Salem, Tamil Nadu

Vote of Thanks |

Dr. M. Lawrence Assistant Professor

National Anthem



Scan the **QR** to join the meeting



Report of Dr. S. Gunasekaran Endowment lecture (2022-2023)

The Department of Physics, St. Joseph's College, Trichy organized the third Endowment lecture of Dr. S. Gunasekaran on the topic of "Focal Engineering in Solar Energy Systems" at 3:00 PM on 28th September, 2022 in the venue of TV Hall, St. Joseph's College. The Under graduate and post graduate students around 150 and 28 faculty members of the Department of Physics attended the Endowment lecture.

The programme started with a prayers song. The welcome address was given by Dr. R. Jerald Vijay, Assistant Professor of Physics. The felicitation address was given by Dr. P. Rajendran, Deputy Principal, St. Joseph's College, Trichy. He congratulated the department for their efforts in organizing these Endowment lectures which helps the students to enrich their academic activities. Dr. S. Lourduraj, Assistant Professor of Physics introduced the speaker Prof. P.M. Anbarasan, Professor, Department of Physics, Periyar University, Salem.

The special talk was delivered by the speaker through google meet. The students and faculty members attended the programme at the college venue mentioned above. The speaker elaborated on the different types of Photovoltaic devices and systems available. He detailed on the fabrication process of solar cells such as Silicon solar cells and Dye sensitized solar cells. He explained both the

Experimental fabrication and computational designing of the devices using Density Functional Theory. He also discussed about the synthesis of nanomaterials using different techniques. The special talk was useful for the students to enrich their idea and to carry out their project works in this field. At the end of the lecture session, the students were allowed to ask their queries and interact with the resource person.

The programme was concluded with the vote of thanks which was delivered by Dr. M. Lawrence, Assistant Professor of Physics followed by the National Anthem.

Dr. N. RAVI, M.Sc., M.Phil., Ph.D. Head & Asso. Prof. of Physics St. Joseph's College (Autonomous)
Tiruchirappatii - 620 002.



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28th September 2022





















Dr. S. GUNASEKARAN ENDOWMENT LECTURE-III (2022-2023)

(Instituted by Dr. S. Gunasekaran)



30

DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE (Autonomous)

TIRUCHIRAPALLI - 620002

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Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu

Dr. S. GUNASEKARAN ENDOWMENT LECTURE-III (2022-2023)

(Instituted by Dr. S. Gunasekaran)		karan)		
<u>ATTENDANCE SHEET</u>				
DATE		TIME	TOPIC	
28.	.09.2022	03.00 PM- 04.30 PM (AN)	Focal Engineering in Solar Energy Systems	
S.No.	D.No	NAME	SIGNATURE	
01	21884806	R. Swedla	Sweff	
02	21884824	B. ANGIELIN	B. Aggelen.	
03	DIPPHROH	P. Mexlène Asha	kl.	
D4.	21PPH814	Gr. Linde Virgelson	A. Li	
05	21ppH820	A. Jasmine christilla	Hass	
06	21PPH809	R. Nancy Benedicta	Day /	
07	21PPH837	8. Sophya Joy	80 plan	
08.	21994808	J. Maglant Kajol	J-Maglant.	
09	20UPH 628	A. Nikitha	A. Autitha	
10	20 UPH 610	A. Arokya Hepshiba.	A-Lwhye Heperlihe	
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21	200PH544	G. Dhardalshni	G. Dharam,	
22	20UPH514	9. PRIVA SHERIN	Sheren	
23_	22PPH 828	S.SAI LACTTA	s. sailalita,	
24	22PPH827	Karunya Alphonsa . S		
25	22 PPH 823	Tin Aaksava . A.J.N.	John dahrang	
56	22 PPH 806	A. Sheefa floorenag	Shuf Zhuci	
7	22PPH 813	ROSHINI.V	Swelpy	
	22 PPH 822	A. Sherin Rukshana	ARukman	
Dr. C		J. Jerlin Varshali		
	22 PPH8 11	A. Linda Shulay	of Telli Oshali	
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TOPIC



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ATTENDANCE SHEET

TIME

Focal Engineering in Solar 28.09.2022 03.00 PM- 04.30 PM (AN) **Energy Systems** S.No. D.No **SIGNATURE** NAME 1. NAVEEN KUMAR M 22 PPH 839 Thomarini Solvan. J 22PPH 819 KARTHICK . K 3. 22 PPH 810 WALAMIY AWHEOM A-22 PP11805 22PPH831 HARISHWARAN.V 22PPH896 N. Ajjshkumar 22 PPH 812 M. KESAWAN M. Pithik Roshow 20UPH 519 8. 9 20UPH607 10 2 OUPH 513 20084538 11 20001+535 20 UPH 511 13 T. Sam Santhosh 14 900PH 532 20UPH 503 Fhoris Jerome 16 20UPH639 Arun Kuman 200PH62D 17 20UPHS26 18 ABISHEK B. JAJ MANI BHARATHI 2017PHS12 19 U.F. Jeswantch 200PH 536 20 G. Veera Mani COUDH THE 21 22. 20UPH 543 Kumaresh 23. 20UPH541 20 UPH 642 24. surya Prakash ADUPH 609 25. c. Aswin 20uph 545 26. S TOMOR DOLL 20uph 542 27



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28.09.2022

03.00 PM- 04.30 PM (AN)

Focal Engineering in Solar Energy Systems

S.No.	D.No	NAME	SIGNATURE
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29	22 6 6 4 8 0 4	M. Deepak	M. y cepek y.
30	22 PPH 830		D.V.
31	22PPH835	5. Dharmaraj	d. ghyj.
32	22PPH808	R.KAMALAJKANNAN	Rohable
33	22PPH840	S. Gowthaman.	S. with
34	22PPH 838	P.KAVIYARASU	p. Yungang
35	20UPH613	A. Roberth Kumar	J. Kal
36	20UPH645	M. AAKash	no for
37	DUPH62A	B - Madoshuger.	B. Warm.
38	200194623	S. HARISH ARAVINDH	Sterly
39	20484606	A. Marian Florian Zaria	- July
40	200PHS47	S. FLAVARASU	K.EL-W
41	20UPH632	A-ARUNAGIRI	A. Deeff-
42	20UPH 627	M. VEERASEKARAN	டு. விரசரகுற்
43	20UPH631	P. vishwa	P.VIS
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46	22PPH807	MARIA JOE ANTONY. JJ.	Maria & Intony . JJ
47	22 PPH 821	SELVA PRAKASH. R	Q. Sala prabushing.
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49	22PPH815		Jestin



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Focal Engineering in Solar Energy Systems

S.No.	D.No	NAME	SIGNATURE
1.	21PPH817	S. MONA MERLIEN	Moral.
2	21PPH802	B. Rufina	Cloud.
3.	21PPH839	M. Divyashue	14 Die
4	21 ppH807	L. Raveeti Motica	Lav.
5.	21PPH840	V. Shavmilalakshmi	V. Ohf.
6.	21PPH831	A - Srîkavî	A-Siki.
	21 PPH&30		P. Kavin
8.	21PPH825	K. Jewa Ratchagan M. Anockiya Victor	X. F. Rehly
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12.	21PPH838	W-Roshan Lourdusamy	w. Post 8
13	21PPH827	A-AROCKIA JOE SHOW	dita .
14.	21PPH 826	V. Joshua Polino Nihmal	N. Jarrua
15	21PPH816	Ashin R. Lanfo	Lange
16	21PPH803		8. Marly
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20	21 P P H 8 19	B. Ranjith kumar	B. Ranjikh Ly
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22	21 PPH818	A. Balamusugan	As Balamurugas.
23	21PPH811	J. Thomson	976-ti
24.	21PPH833	R-VISAYAN	Q. Dijung



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DATE	TIME	TOPIC	
28.09.2022	03.00 PM- 04.30 PM (AN)	Focal Engineering in Solar Energy Systems	

S.No.	D.No	NAME	SIGNATURE
1	22PPH801	CHANDRU. K	K.churj
2	22ppH802	R. Nithish Kumar	R. Nithigh Kumase
3.		A Ando Helvin Ray	A. Antonelving
4.	20UPH523	D. Vaoshan	Dove-try/
5.	2 DUPHSID	V. Manof Kumar	V. naue/Klud,
6.	20UPH520	C-J. Jac Janatius Antony	CJA A
7.	20 UPH 504	GI. JOSE AGINEL	ely. The
8.	200PH 921	J. Kisubhakasan	Frisholden.
q.	20UPH548	KETHWIN JYLIE. A	Att
10.	20UPH 515	M.Thaoun Prokash	M. Speen.
11	20UPH 529	A. LOGESH	>-/V
12.	20UPH646	R · BOOPATHI	Ritarpathi
13.	22PPH811	J. Jerlin Vaisholi	Joelin Boshali
14	22 PDH836	A. Linda Sheeley	d-Linda Sherley
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16	22PPH832	Toffila Infancia Roy. S	Jeffila Infancia Pays

STEPHEN HAWKING INNOVATION CLUB NASA OBSERVE THE MOON CONTEST

LUNAR OBSERVATION

OCTOBER 2022

06.10.2020
7.00 PM TO 8.30 PM
MAHE GROUND, ST JOSEPH'S
COLLEGE, TIRUCHIRAPPALLI.

About the program

The Moon's an ideal object to observe in the sky either with the naked eye or with a telescope because it is big, bright and covered with amazing detail. Roughly one-quarter the size of the Earth, the same side of the Moon is always facing Earth because tidal forces in the Earth-Moon system synchronize its rotation to match its orbital period.

The NASA's observe the moon contest is a astronomy call to the educational institutions to arrange public sky watch program for general public audience and college students. Our program is the only NASA registered college open sky observation program in Tiruchirappalli district.

The program consists of

- Public lecture on annular movement of Moon
- Telescope live observation
- Moon craters identification and observation
- Digital moon live through astronomical camera
- Student discussion on astronomy
- Moon Astrophotography session
- Astronomy Q and A session

These programs are registered at NASA's Official website, public, students and professors from other colleges have also participated in this event. The program was conducted at MAHE college ground under the guidance of our Mentor and Coordinator Dr. P. Christuraj. Participation Certificate with NASA emblem is issued to everyone.



Observe the moon

At 6:30 p.m. We first did the preparations to observe the moon with Messier telescope. Many students had come for this observation from various departments, nearly 30 students joined in this observation. At 7 p.m. We started exploring moon. First, We have put the 6mm eyepiece(200x zoom) on the telescope and looked at detailed images of moon's craters and mountains. the Copernicus Crater of moon fig.1 took away the breath of the program participants.

Then we changed to digital eyepiece for taking photograph of the moon. The public lectures on astronomy and moon was given by Final year physics students and students observed the digital feed of the waxing gibbous moon. fig.2



fig.1
Copernicus crater
Copernicus is a lunar impact crater located in eastern Oceanus Procellarum. It was named after the astronomer Nicolaus
Copernicus. It typifies craters that formed during the Copernican period in that it has a prominent ray system. It may have been created by debris from the breakup of the parent body of asteroid 495 Eulalia 800 million years ago



fig.2
he Waxing Gibbous phase is when the lit-up part of the Moon grows from 50.1% to 99.9%. It starts just after the First Quarter Moon and lasts until the Full Moon.
Waxing means that it is getting bigger, while gibbous refers to the oval-to-round shape.
As the illuminated part of the Waxing Gibbous Moon grows to 98-99%, it can be challenging to differentiate it from a Full Moon.

STUDENT OBSERVATION AND DISCUSSION SESSION

Students observed the waxing gibbous moon through the telescope and through live camera feed. They are motivated to have discussion on the mysteries of the universe. Students engaged in intriguing conversations on science, astronomy and moon.

We had a Question and answer session on moon, they have come up with amazing questions.

Why stars only scintillate, not planets?



How to identify the craters of the moon?

How crash landing works in moon?

What are the effects of moon's tidal force on climate and life on Earth?

Their questions were answered by the coordinator of Stephen Hawking Innovation Club Dr. P. Christuraj and the team who constructed Messier Telescope.



Event Gallery





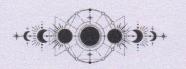




Conclusion

Total of 50 participants (Students and professors from within and outside the college, teachers parents) have attended and gained huge amount of inspiration, knowledge and understanding about moon, astronomy and space sciences. Participation certificate with NASA emblem has been issued to all the attendees.

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(Dr 1. Chnistury)

ATTENDANCE SHEET

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6)	GROCK JEBERON.5	2aUPH205	Augl. J
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8)	NIRMAL KUMAR . R.K	21 UCH 10 5	R.K. Nima bumor
9.	BALASUJA. R	22UPH502	Balax
10.	VEDHA WARSHINI B	22 UPH 546	Valhus.
(II)	SHQFICA BANU-5	22 UPH 508	Shaper.
12)	Alayerhuaran B	22UPH124	Alexander
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21	ODHXAYABASKAR B.	22UPH123	Chall.
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23.	CHANDRU V	21UPH255	Church.
24.	Banjay kumar S	21UPH234	Sarjoy kuntos
25.	Ecgene Reginald 3	21094212	Fugend
26.	NAVEEN	21 UPH 133	Navens
27	ABISHEK R	21 094229	Alexander
28	Youin P	21 UPH 104	Last
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30.	SAMSON J	21UPH121	Sanden
31	Jegan A	22UPH/06	Jeget
32	THOMAS GLADWEN C	2100133	Thomasighal
33	GIDEON RAJON A	24 UCO 103	Gidalt
34	NISHANTH S	21UMA 136	All Shorth-
35	HARLSH V	21VP#129	Horisto.
36	Grana Drakash. D	50 NDH5HH	Danful
37	d. Michael Jackson	20UPH 229	d- Helap.
38.	Aashimukilam Gr	20 UPH 225	Jon mal (s)
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40.	s.Balamurugan	20UPH253	8. Baller

ATTENDANCE SHEET

NAME	DEPARTMENT NUMBER	SIGNATURE
ASRAK AHMED	20 UPH249	J. Ferenizal Titus
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	REPORT		
Activity	Prof. S. T. RAJAN ENDOWMENT LECTURE (Instituted by Prof. S. T. Rajan Family & Friends)		
Date & Time	14-10-2022 & 03:15 pm - 4:30pm		
Topic(s)	Computational Physics with Python		
Platform/ venue	Offline APJ Hall		
Resource Person(s)	Dr. P. Muruganandam Professor and Head Department of Physics Bharathidasan University, Tiruchirappalli		
Total no. of Participants	100		
Outcome of the Programme/ Key Points	 Participants learnt about Python language with good physics examples. Participants were able to understand the identifiers, keyword, single line and multiline with simple programs in jupyter notebook. Participants can solve problems of Runge-Kutta method and interpret the result in jupyter environment. 		

* Documents enclosed

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Computational Physics with

Python



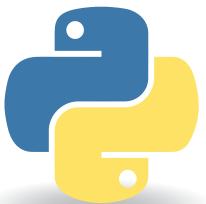
14th October 2022



(八) 03:00 pm



🙎 APJ Hall



Prof. S. T. RAJAN ENDOWMENT LECTURE (Since 2016) (Instituted by Prof. S. T. Rajan Family & Friends)

Prayer Song

Tamilthai vazhthu

Welcome Address

Dr. R. Jerald Vijay

Assistant Professor

Felicitation

Dr. A. Rose Venis

Member Secretary & Dean, IQAC

Introducing the Speaker

Dr. N. Ravi

Head and Associate Professor, Dept. of Physics

Special Talk on "Computational Physics with Python"



Dr. P. Muruganandam **Professor and Head Department of Physics** Bharathidasan University, Tiruchirappalli

Vote of Thanks

Dr. S. Lourduraj **Assistant Professor**

National Anthem

The Report

Prof. ST. Rajan endowment lecture

Prof. ST. Rajan endowment lecture was started at 3.15 pm on 14/10/2022.

Programme started with prayer song followed by Tamilthai Vazhthu.

Dr. Jerald Vijay welcomed the gathering and explained this knowledge sharing practice of Prof. ST. Rajan.

Dr. N. Ravi, Head of the Department offered his falicitation and introduced the chief guest Dr. P. Muruganandham, Head of the Department of Physics, BDU.

IQAC Dean Dr. Rose venis offered his falicitation. He encouraged the students to do research. He highlighted the famous quote of DR. APJ. Abdul Kalam "Learning makes creativity".

Dr. P. Muruganandham Head of the Department of Physics BDU given a special talk on "Computation Physics in Python".

He introduced the Python language with good examples.

He explained about, What is python? Why we use python? What are the applications of python in day today life.

With a good examples he explained the major versions of python.

He demonstrated well about identifiers ,keyword , single line and multilines with simple programs in jupyter notebook.

With good example he explained what is indentation and how to use the indentation in program in a very effective way.

He explained the data types used in python in 18th slide out of 48 of his slides.

He use jupyter notebook to explain the major factors of Tuple and List used in python.

Then he explained dictionaries and python functions.

He solved some problems of Runge-Kutta method and interpret the result in jupyter environment.

Entire session went on well in a very effective way.

He clarified the doubts raised by students.

Vote of thanks given by Dr. S. Lourdu Raj, Co-Ordinator, Shift II, Department of Physics.

Master of ceremony was done by Dr. Adal Arasu, Assistant professor, Department of Physics.

Finally the programme end up with National anthum.

Minutes was prepared by Prof. B. Mary Dayana, Assistant professor, Department of Physics.

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Computational Physics with







14th October 2022

Python

Prof. S. T. RAJAN ENDOWMENT LECTURE (Since 2016)

(Instituted by Prof. S. T. Rajan Family & Friends)



Physics Department, Trichy Chennai Trunk Rd, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620002, India Latitude Longitude

10.8291426° Local 03:06:42 PM GMT 09:36:42 AM

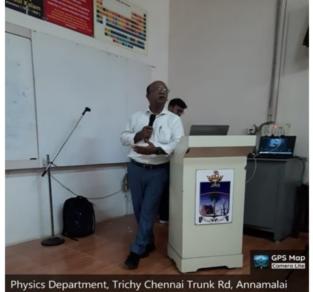
Latitude

10.8291445°

Local 03:07:13 PM

GMT 09:37:13 AM

Longitude 78.6923729° Altitude -21.8 meters Friday, 10.14.2022



Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620002, India Latitude Longitude

10.8291473° Local 03:30:05 PM GMT 10:00:05 AM 78.6923798° Altitude -21.8 meters Friday, 10.14.2022



Physics Department, Trichy Chennai Trunk Rd, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620002, India Langitude

10.8291438° Local 03:18:49 PM GMT 09:48:49 AM 78.6923831° Altitude -21.6 meters Friday, 10.14.2022



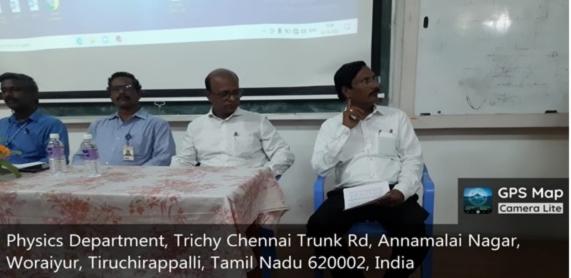
Physics Department, Trichy Chennai Trunk Rd, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620002, India Latitude

10.8291484° Local 03:13:39 PM GMT 09:43:39 AM 78.6923769° Altitude -21.8 meters Friday, 10.14.2022



Latitude Longitude 10.8291428° 78.6923786°

10.8291428° 78.6923786° Local 03:11:11 PM Altitude -22 meters GMT 09:41:11 AM Friday, 10.14.2022

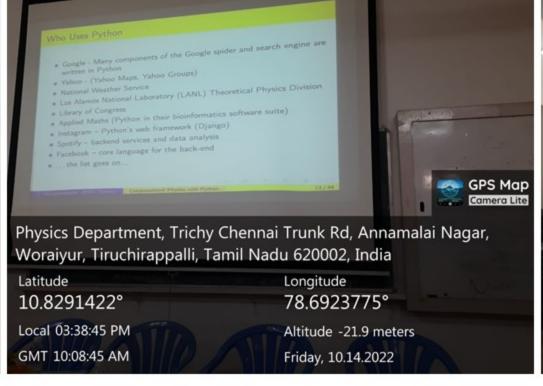


Longitude

78.6923776°

Friday, 10.14.2022

Altitude -21.9 meters







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Prof. S. T. RAJAN ENDOWMENT LECTURE (Since 2016) (Instituted by Prof. S. T. Rajan Family & Friends) ATTENDANCE SHEET

Date: 14.10.2022 Time: 03:00 pm

S.No	D.No	NAME	SIGNATURE
1.	21PPH824	B. ANGIFLIN	B. Angelin.
2.	21PPH807	L. Raveen Monica	Lavi.
3.	21994841	V. Saranya.	Savay.
4.	21PPH809	R. Nancy Benedicta	Delancy
S.	21PPH83T	S. Sophya Joy	Sophan
6.	21004820	A-Jasmine Christilla	Has
7.	21PPH506	K. Om tha	JMAR
8.	21PPH1814	Grille Minnagas,	C. Las
9.	21PPH 817	S. Mona merlien	dy
10.	200PH544	G. DHANALAKSHMI	G. Dleew.
11,	20UPH514	A. PRIYA SHERIN	Pherin
12.	200PH 534	Ar. Devi	vor. Dut.
13.	200PH528	8.A. Sathana	8.A. South
14.	200ph501	D. Emysktha	D. Samueltha
IS.	21PPH802	B. Rufina	m. 13
16,	21 PPH 804	P. Merline As La	Agher
17.	21PPH 839	M. Divyashuee	Drug.
18.	21PPH840	V. Sharmila Lakshmi	v. Fr.
19.	21PPH808	J. Maglant Kajos	J-Maglof
20.	20UPH 518	g. yracy goy	g. eyeacy goy
21	20VPH509	V. DHARSHINI	V. Thanking -
22.	20 UPH 546	B. Vedha Varshini	E-Vertundagli.
23.	20 UPH 605	C. Negomi Jona	c-Vegomi Jona
24.	20UPH612	T. clamenship	
25.	20UPH628	A. Nikitha	Piclamonshye. AAAAKITha





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Prof. S. T. RAJAN ENDOWMENT LECTURE (Since 2016) (Instituted by Prof. S. T. Rajan Family & Friends)

ATTENDANCE SHEET

Date: 14.10.2022 Time: 03:00 pm

S.No	D.No	NAME	SIGNATURE
26.	20094548	KETHWIN KYLIE . A	A. W.A
27.	20UPH609	SURYA PRAKASH. J	T. Owyo Rakest.
28.	20 UPH 521	Kisubhakaran. J	J. Oxige Shalkagan
29.	20UPH515	M.THARUN PRAKASH	M. Thouse.
30.	20UPH B29	A.Logesh.	A-W
31.	20UPH542	G. Imman Dazin	Sidion
32.	200PHS10	Mairo Kumariv	1 meen Den
33.	200PH504	Jose danel G1	At. toplant
34.	20UPH 5 37	A. Anto Melvin Raj	A . totoneline
35.	20UPH 520	C. J. Joe Janatius Antony	CHITHAST
36.	20UPH523	D. Varshan	Davast 0
37.	20UPH624	MADHESWAR . B.	P. Mae
38.	200PH646	BOOPATHI. R	Referenti
39.	20 UP 4 632	A'Asunorgivi	A. Aleett.
40.	20UPH647	5. Elauarasu	R-FILL
41.	200PH627	M. Veerasekaran	LO · OSTETTOT
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Date: 14.10.2022 Time: 03:00 pm

S.No	D.No	NAME	SIGNATURE
43	21PPH838	W. ROSHAN LOUR DUSAMY	w. Poll
44.	218914832	N.S. SATHYA NARAYANAN	Nathy2
45.	21PPH826	A : JOSHUA PRINCE NIRMAL	H. Joshua
46.	21PPh 8 27	A. Alockia Joe Snow	diffe
41.	21PPH819	B. Raniith Kumar	
48.	21 PPH811	J. Thomson	Bikanjith lug.
49.	21PPH830	P. Kavin	P. Kavin
50.	21994816	Ashin R. Lamfo	Langes.
SI.	21pp#821	N : Havibhavarh	N. Austrans
52.	21PPH825	K. Jeeve Ratchagan.	& In Rutch
53.	200PH623	S. Harish Araundh	Stafe bulends
54.	20 UPH 545	M. Lakosh	m-Soll-
55.	20UPH613	X. Robinth Kuman	N. 600
56.	20UPH 636	M. Siva Subramaniyan	u Siri.
57.	200PH630	U. Grennaselkart	O. Cany
58.	20 UPH 6291	B. Sarawana kumar.	B. Jan
59.	20UPH606	A. Marios Florian Zairo	And
60.	20UP4526	S.ABISHEK	Sälliket



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Date: 14.10.2022 Time: 03:00 pm

S.No	D.No	NAME	SIGNATURE
61.	20UP 4519	M. Rithik Roshan	M-Rithik Roshon
62.	20UPH513	A.B. Dharun kishen	A A
63.	20UPH634	NILAVAN'A	1 dinter
64.	200PH607	SEBASTIN JEGIAN A	selastip.
65.	20004507	Shrunmuga prakash-k	sht.
66.	20UPH516	M. ASHWIN RAT	elskhin 2j-
	200 PH 538	Karen Kumar -5	J. Karret
	20UPH511	S. MANOJ KUMAR	Strangkman.
	200PH 52T	A. DOMINIC SAVIO	allindjo
	20UPH535	B. Kangi	Bland
	90UPH582	J. Sam Santhosh	1. Sufferent
	20UPH 545	g. grondobloot	B. ghirly
	20UPH616	5. Parwin	5.04
74.	20UPH503	J. Harris Terome	JUS





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Date: 14.10.2022 Time: 03:00 pm

S.No	D.No	NAME	SIGNATURE
75.	21PPH810	M. VISHNUPRIYAN	M. Vieh Dries
46.	21 PPH 818	A-BALAMURUGAN	A Balamurugan
77.	21PPH822	P. CELESTINE AMALAN	& Celestinett.
78.	21PPH823	M. AROCKIYA VICTOR	dent.
79.	21PPH805	S.V. MANIVELAN	malabora.
80.	21PPH836	S. Bala Mungan	S.Bulyl
81.	21PPH803	J. Masshall	J. Paulille
82	2FPPH801	S. Veelo Jesurg	goods
83.	200PHb31	P. vishwa	P-vihre
84.	20UPH547	Veera Mani. Gi	au Marj Gr.
85	20UPH 522	R. Sathish Lumas	J. 88/ DaTwoon
86.	200PH512	B-JAI MANI BHARATHI	B-Zere Routhe
87.	20UPH536	U. E. Jeswantal	999 35 P. 25
88.	20004540	R-Kumaresh	Defet o
89	200PH541	K. Joffivel	Anaka Change And So
	LOUPHEA		7077
90.	21PP14833	R.VIJAYAN.	R-lunsie



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REPORT			
Activity INDUSTRIAL VISIT			
Class	III BSc Physics-B		
Date of Visit	27-29 October 2022		
Place of Visit	"Radio Astronomy Centre", Ooty, Tamil Nadu		
Staff in-charge > Prof. B. Mary Dayana > Prof. Novin Senetra Roy			
Total no. of Participants	26		
Outcome of the Programme/ Key Points	 Instruments visited Radio Telescope (43 years old) GRAPES-3 Cosmic Ray Observatory Tea factory machinery operation 		

^{*} Documents enclosed



HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2. A REPORT ON INDUSTRIAL VISIT

Dates of Visit: 27th October to 29th October 2022

Introduction:

The industrial visit was organized by the third year Physics 'B' students with prior permission

from Joint director, Higher Education, Tiruchirappalli and Rev. Fr. Principal, St. Joseph's College,

Tiruchirappalli.

An industrial visit is an important part of an academic carrier and it was benefited to students

about exposure of the industry and the outside world. The students were familiar with the industrial

knowledge and research exposure. The Research centers and observatory gave a enhanced knoledge

about the academic studies and which was motivated the students to progress in their stream.

An industrial visit contributes to the achievement of various essential learning outcomes. The

Radio Astronomy Center and Cosmic ray Observatory was planned by the students & mentor of IIIrd

B.Sc. Physics "B". The main objective of this visit is to make students get acquaint with the recent

developments in the field of astronomy & High energy physics. New innovative ideas need to be

cultivated to coup up with the emerging technological demands.

We reached the outskirts of Udagamandalam by early morning and checked in at hotel rooms

around 7am. The differrent committees such as accommodation, food & first aid, management,

entertainment were formed and executed their works based on our plan in this educational tour.

We began our visits as per the schedule. The days of visit was scheduled as follows.

Day-1: Visit to Radio Astronomy Center on 27th October 2022

The Radio Astronomy Centre (RAC) is part of the National Centre for Radio Astrophysics

(NCRA) of the well-known Tata Institute of Fundamental Research (TIFR) which is funded by the

Government of India through the Department of Atomic Energy.

The RAC is situated near Muthorai, Udhagamandalam (Ooty) in the beautiful surroundings of the

Nilgiri Hills. After having breakfast, we headed to the village Muthorai. As we reported our arrival

there sharply at 10:30 am.

In Radio astronomy center, the basics of radio astronomy, how the radio astronomy differs from

optical astronomy, construction & significance of Ooty Radio Telescope was explained with the video

demonstration. Then we got the chance to witness the magnificent array of steel plates & strings that unveil the heavens in close.

About the RAC: Research works & Achievements

Over the 43 years, the Ooty Radio Telescope has produced many important astronomical results on radio galaxies, quasars, supernovae, pulsars, the interstellar and interplanetary media, etc. Most of the successful observational programs carried out at Ooty and its was used to determine the angular structures of hundreds of distant radio galaxies and quasars by the technique of lunar occultation. The application of this unique database to observational cosmology provided independent evidence against the Steady-State theory of Universe and supported the Big-Bang model of the Universe. The telescope is currently being used mainly for the study of pulsars, radio recombination lines and interplanetary scintillations.

The new technique developed at Ooty to study the interplanetary scintillation observations provides valuable information about the solar wind and solar-wind magnetic storms that affect the near-Earth environment. Major eruptive events on the Sun, such as flares or coronal mass ejections (CMEs), can have a profound influence on the terrestrial environment. CMEs can interact with Earth's magnetosphere to generate major geomagnetic storms and substorms, sometimes affecting communication and power grid systems and accelerating energetic particles that have been known to damage communications satellites and may harm astronauts working in space. The Ooty scintillation measurements are useful in identifying and understanding the evolution of disturbances caused by powerful CME events in the Sun-Earth distance and forecasting the arrival of such large events at the near-Earth space.

The objective of the Ooty scintillation study is to significantly advance the understanding of the three-dimensional (3-D) structure and evolution of CMEs and their interaction with the interplanetary medium and terrestrial magnetosphere using combined imaging, radio, and in-situ measurements from spacecraft. Ooty measurements have been successfully employed to track CMEs from Sun to Earth distance and they have elucidated the evolution of the 3-D structure and speed of CMEs in the inner heliosphere. Interplanetary scintillation observations also provide a valuable database to understand the Space Weather changes and its predictability.

For example, by using atomic clocks, which provide excellent time and frequency standards, ORT has been used to do very long baseline interferometry (VLBI) by combining the radio waves received

by them with those received by radio telescopes in West Germany, Holland, England, Japan, Poland, China, and Russia. This has enabled celestial objects like radio galaxies and quasars to be observed with very high resolution, equivalent to that obtained by a telescope with an aperture size of about 5000 km.

Day 2: Visit to Cosmic Ray Observatory on 28th October 2022.

The GRAPES-3, Cosmic Ray Observatory is located at Ooty in India started as a collaboration of the Tata Institute of Fundamental Research and the Osaka City University, Osaka, Japan.

As per the schedule, we visited the GRAPES-3 (Gamma Ray Astronomy PeVEnergieS phase-3), Cosmic ray observatory on 28th October 2022. We reached the venue at 10:30am and witnessed the array Cosmic ray detectors & Muon detecting chambers. Mr. Rajesh (Scientific officer) of GRAPES-3 was there briefing on the works that are undertaken by the cosmic ray Observatory and their achievements. He gave an introduction about the cosmic rays and how these rays decay into Muon & gamma rays when they enter our Earth's atmosphere. He also explained about the different methods they were using to detect these rays.

About Gamma Ray Astronomy (GRAPES-3):

GRAPES-3 (Gamma Ray Astronomy PeVEnergieS phase-3) is designed to study cosmic rays with an array of air shower detectors and a large area muon detector. It aims to probe acceleration of cosmic rays in the following four astrophysical settings. These include acceleration of particles to, (i) ~100 MeV in atmospheric electric fields through muons, (ii) ~10 GeV in Solar system through muons, (iii) ~1 PeV in our galaxy through nuclear composition of cosmic rays, (iv) ~100 EeV in nearby universe through measurement of diffuse γ -ray flux.

The GRAPES-3 is located at N11.4o, E76.7o, 2200m above mean sea level. The observations began with 217 plastic Scintillators and a 560 m² area Muon detector in 2000. The Scintillators detect charged particles contained in extensive air showers produced by interaction of high energy cosmic rays in the atmosphere. At present the array is operating with \sim 400 Scintillators that are spread over an area of 25,000 m². The energy threshold of Muon detectors is 1GeV.

Objectives of the GRAPES-3 Experiment: Study of The origin, acceleration and propagation of $>10^{14}$ eV cosmic rays in the galaxy and beyond.

*Existence of "Knee" in the energy spectrum of cosmic rays.

- *Production and/or acceleration of highest energy (~10²⁰ eV) cosmic rays in the universe.
- *Astronomy of multi-TeV y-rays from neutron stars and other compact object.
- *Sun the closest astrophysical object, accelerator of energetic particles and its effects on the Earth.

DAY 3: Visit to Benchmark tea factory on 29th October

We were visited Benchmark tea factory to know about how to made a quality tea power in this factory. We visited the process of preparation of Tea powder with Eight stages of process and to get a quality. First process was where the tea leaves were collected. Second process was the collected tea leaves were stored in the factory. Third process was to separate the quality tea leaves to one side. Fourth process was the collected quality tea leaves were sent to next process. Fifth process was the leaves are crushed and juice pressed out. Sixth process was the juice is then subjected to fermentation under specified conditions. Seventh process was the fermented juice is steamed, centrifuged and freeze-dried to get instant tea powder. Eight Process was the pressed leaf residue is subjected to fermentation and drying for preparation of tea granules. We also learnt how to marketing the product to consumers.

They were providing a sample product Tea for tasting. The visitors were attracted and tasting the product. Finally, the we bought the tea powder for their own usage. We were learnt the process of fermentation and working principle of the Machines and its Mechanism.

We express our sincere thanks to Radio Astronomy Center, Ooty, Gamma Ray Observatory, Head of the Department of Physics, Rev. Fr. Principal and Join Director for permitting the visit. And also, thanks to our class mentor for accompany ourselves.

Photos of Visit:

Radio Astronomy Centre:





Telescope



Radio Astronomy Centre

Visit to Cosmic ray Observatory:



Benchmark tea factory:





From:-

The class Representative III B.Sc. physics "B" Department of Physics (shift-II) St. Joseph's College (Autonomous) Tiruchirappalli--620002

Rev. Fr. Principal St. Joseph's College (Autonomous) Tiruchirappalli-620002

Through:-

The Head of the Department Department of Physics St Joseph's College (Autonomous) Tiruchirappalli-620002

Respected Rev. Father,

Sub: Seeking permission for an Educational Tour-reg.

As a part of our third year undergraduate curriculum, we are supposed to visit an industry related to our subject so that we can get a better insight about the recent developments of our field. So we would like to go on an educational trip to Radio Astronomy center, Ooty from 27th October to 29th October, 2022. We would like to seek your permission to take Up this academic event which would be highly experimental expedite.

Department

: Physics

Class

: III B.Sc. Physics "B" (shift II)

Duration

: October 27 to October 29,2022

Place Total No. of Male Students : 19

Total No of Female Students: 07

Staff in-charge

: 02 (1 Male +1 Female)

Thank you

Assistant Professor

Q NOVIN SENEGRA ROT

Assistant Professor

COORDINATOR

Depostment of Trysics (3-11)

10/10/22

DEPUTY PRINCIPAL DEPUTY PRINCIPAL SHIFT II

ST. JOSEPH'S COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 002.

ours sincerely,

Head of the Department of Physics

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(AUTONOMOUS) TIRUCHIRAPPALLI 620 002

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	REPORT			
Activity	Webinar Series on Materials for Energy and			
	Environment (WSMEE-22) - Event 2			
Date & Time	03-11-2022 & 03.00 PM TO 04.30 PM			
Topic(s)	"Recent Trends in Water Splitting"			
	Online mode			
Platform/ venue	Zoom Meeting ID: 818 7268 3997			
	Zoom Passcode : physicssjc			
	Dr. N. Ponpandian,			
Resource Person(s)	Professor and Head,			
	Department of Nanoscience and Technology,			
	Bharathiyar University, Coimbatore.			
Total no. of Participants	140			
	Participants are			
	Learnt importance of renewable alternate energy			
	sources.			
	Acquired knowledge of water splitting and water			
Outcome of the	electrolysis and importance of storage devices			
Programme/ Key Points	over the sustainable energy.			
	 learnt about three electrode system, Hydrogen 			
	as energy carrier and HER/OER, mechanism of			
	electrochemical HER/OER, Catalysis in water			
	splitting and HOR.			

* Documents enclosed

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Webinar Series on

Materials for Energy and Environment (WSMEE-22) - Event 2

Recent Trends in Water Splitting



03rd November 2022



رِيا) 3:00pm (IST)



Zoom Platform

(Zoom meeting link will be communicated with the registered participants)



Speaker



Dr. N. PONPANDIAN Professor & Head Department of Nanoscience and Technology Bharathiar University, Coimbatore.

About Speaker

He is a prominent researcher who is known for his work in Nanoscience, Energy devices and Sensors. He has h-index of 52 and over 270+ International and National publications. He is recently been awarded with as a Fellow of Royal Society of Chemistry (FRSC), UK in 2021 and Tamil Nadu Scientist Award (TANSA) in 2022. He is serving as a Coordinator of DST-FIST since 2014; Coordinator programme, UGC-SAP, since 2016 and Director of IQAC, since 2016.

Moderator



Dr. I. JOHNSON **Associate Professor** Department of Physics St. Joseph's College (Autonomous) Tiruchirappalli

Free Registration and E - Certificate will be provided for all Participants

Registration link: https://forms.gle/1yDLakh9vgSHCEVC6

Deadline : 01st November 2022 Or

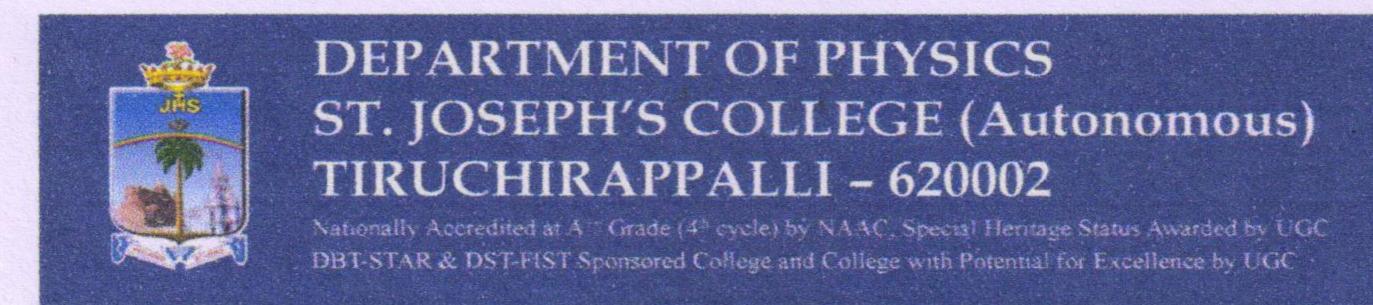
Scan the QR

Dr. H. Joy Prabu, Assistant Professor



E.mail ID: hjpsjc@gmail.com Cell No. : 9677625530

Cell No.: 9786114169



Webinar Series on Materials for Energy and Environment (WSMEE-22) - Event 2

Report

The Department of Physics, St. Joseph's College (Autonomous). Tiruchirappalli initiated and organized a webinar Series on the theme "Materials for Energy and Environment" with the objective to inculcate scientific knowledge among postgraduate students, research scholars, and young faculties. The second event of the webinar series is conducted on the topic entitled "Recent Trends in Water Splitting" on 03-10-2022 & 03.00 pm to 04.30 pm through hybrid mode (online and offline).

The resource person for the webinar was Dr. N. Ponpandian, Professor and Head, Department of Nanoscience and Technology, Bharathiyar University, Coimbatore. The program started with a silent prayer and followed by an opening remark and welcome address delivered by Dr. H. Joy Prabu, Assistant Professor of Physics. Dr. I. Johnson Associate professor of Physics welcomed the resource person and moderated the session.

The resource person Dr. N. Ponpandian, elucidated the following points

- Importance of renewable alternate energy sources.
- Why water splitting is one of the most advanced and important energy source we are pursuing.
- Explaining water splitting and water electrolysis.
- importance of storage devices over the sustainable energy.
- Difference between photochemical and electrochemical water splitting.
- Three electrode system, Hydrogen as energy carrier and HER/OER.
- Mechanism of electrochemical HER/OER.
- Catalysis in water splitting and HOR, ORR.
- Novel Materials for Hydrogen splitting.
- Finally, Materials for sustainable energy production.

The session ended with a round of discussion. Finally, Dr. H. Joy Prabu Assistant Professor of Physics, expressed his gratitude towards the Management, Resource person, Participants, and Teaching and Non-teaching staff members. 140 participants across the country attended the webinar.

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Recent Trends in Water Splitting



03rd November 2022



(الم) 3:00pm (IST)

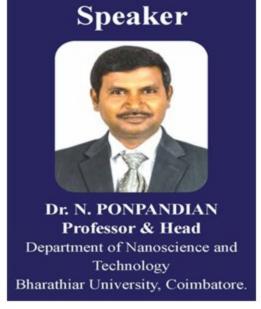


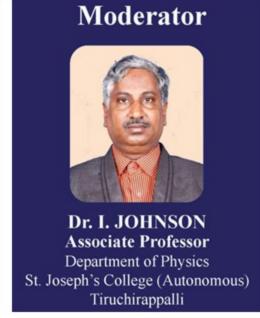
Zoom Platform

Webinar Series on

Materials for Energy and Environment (WSMEE-22) - Event 2





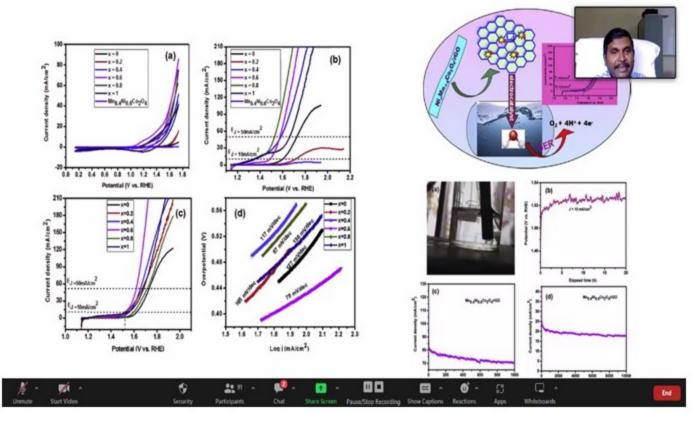


Materials for sustainable energy production systems

- Carbon based materials
- Conducting polymers
- Metal organic frame works
- MXenes
- Metal oxides
- Layered double perovskites
- Carbon-organic frame work



Effect of cation substitution in MnCo204 spinet anchored over 160 for enhancing the electrocatalytic activity towards oxygen evolution reaction



Materials for Energy and Environment _Webinar Event-2_Participants List_03.11.2022 @ 3 pm

Timestamp	Certificate No.	ment _Webinar Event-2_Participants List_03.11.2022	(#) 5 pm	Email Address
11-03-2022 16:15		Dr. H.JOY PRABU, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India.	joyprabu ph1@mail.sjctni.edu
11-03-2022 16:21	21 WSMEE (E- II)-2		St. Joseph's College (Autonomous), Trichy-620002, Tamilnadu, India.	janicehelga323@gmail.com
	22 WSMEE (E- II)-3		NESAMONY MEMORIAL CHRISTIAN COLLEGE, MARTHADAM., TAMILNADU	feminf97@gmail.com
	2 WSMEE_(E- II)-4	Mrs. S.PRIYA, Research Scholar	Presidency College (Autonomous), Chennai -600005, Tamil Nadu	saipriya23121993@gmail.com
	3 WSMEE_(E- II)-5	Ms. S. SIVA SHALINI, Research Scholar	National Institute of Technology, Trichy, India	sivashalini2097@gmail.com
	23 WSMEE_(E- II)-6	Dr. R. JERALD VIJAY, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Trichy- 620002, India	jeraldvijay_ph1@mail.sjctni.edu
	23 WSMEE_(E- II)-7	Dr. B. BENITA MERLIN, Associate Professor	Alpha Arts and Science College, Porur, Chennai - 116, Tamilnadu	benitamerlin@yahoo.com
	24 WSMEE_(E- II)-8	Mr. SUSINDHIRAN S, Assistant Professor	CARE College of Engineering, Trichy, Tamil Nadu	ssishan@gmail.com
	24 WSMEE_(E- II)-9 24 WSMEE (E- II)-10	Dr. V. SIVAGAMI, Assistant Professor Ms. CHESHTA NAGAR, PG Student	Srimad Andavan Arts and Science College (Autonomous), Trichy-5, Tamil Nadu Maulana Azad National Institute of Technology, Bhopal-462003, Madhya Pradesh, India	siva.mallika@rediffmail.com
			waddan zeau nadona insudue or tearnoogy, bropa-4ozou, wadnya rradesh, india National Institute of Technology Tiruchirappalli, Tamil Nado	cheshtanagar60@gmail.com harikrishnanmp10@gmail.com
	24 WSMEE (E- II)-12	Dr. G.VINOTHA, Assistant Professor	CARE College, Trichy-620007, Tamil Nadu, India	vinomano1993@gmail.com
		Dr. M. HELEN SELVI, Assistant Professor	CARE College of Engineering, Trichy-620007, Tamil Nadu	helenselvim@gmail.com
11-03-2022 16:24	24 WSMEE_(E- II)-14	Ms. NUHAIDA KHAMIS AL-MARZUQI,	International Maritime College Oman, Oman/ Saham	nuhaida9n@gmail.com
		Mr. JEEVA J,	Gnanamani College of Technology, Namakkal , Tamil nadu	Lee13052003@gmail.com
		Ms. SUKANYA MURUGAN, PG Student	Vivekananda Global University, Jaipur, Rajasthan, Gujarat	sukanyamurugan87@gmail.com
			Maharashtra	soookhada@gmail.com
11-03-2022 16:25		Ms. ANAKHA A.K, Research Scholar Ms. SAVARI SUSILA G, Research Scholar	Nesamony Memorial Christian College, Marthandam, Tamilnadu St.Joseph's College (Autonomous), Trichy- 620002, Tamil Nadu	akanakha96@gmail.com
11-03-2022 10.20	25 WSMEE (E- II)-19		St. Joseph's College (Autonomous), Trichy 620 002, India St. Joseph's College (Autonomous), Trichy 620 002, India	susilamary20@gmail.com clementlourduraj_ph1@mail.sjctni.edu
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11-03-2022 16:26	26 WSMEE_(E- II)-23	Mr. Z. MOHAMED RIYAS, Research Scholar	ALAGAPPA UNIVERSITY KARAIKUDI, TAMILNADU	zmriyas786@gmail.com
11-03-2022 16:26	26 WSMEE_(E- II)-24	Ms. M.SHIFANA RANTH,	Government college of engineering, sengipatti, Thanjavur-613402, Tamilnadu, India	ishakahmed1970@gmail.com
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11-03-2022 16:28		Mrs. PRIYA .C, Research Scholar Ms. P. HEMA, Research Scholar	Alagappa university , Tamilnadu ,India Vellore Institute of Technology, Vellore, Tamilnadu, India	priya.v1205@gmail.com hemap88496@gmail.com
11-03-2022 16:28	8 WSMEE (E- II)-37		venore institute on rectinology, venore, intiminator, intiminator, intiminator, interest inte	bravanjalins@gmail.com
11-03-2022 16:28		Ms. J. SEBASTIN ANITHA, Research Scholar	Holy Cross College (Autonomous), Trichy-02., Tamil Nadu, India	sebastinanitha29199@gmail.com
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	28 WSMEE_(E- II)-42	Ms. I.BETSY ELIZABETH , Research Scholar	Bishop Heber College , Tamilnadu	betsyisaac93@gmail.com
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			Rajah Serfoji Government College (Autonomous), Thanjavur-613005., Tamilnadu, India	vengaibharati1996@gmail.com
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11-03-2022 16:31		Ms. N.L. SHEEBA, Research Scholar Ms. M. ABISHA, Research Scholar	Sri Paramakalyani College, Alwarkurichi, Tenkasi-627412, Tamil Nadu, India Holy cross college Nagercoil - 629004, India	sheebanatarajan97@gmail.com abishaphysics@gmail.com
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11-03-2022 16:32	32 WSMEE_(E- II)-56	Ms. MARGRATE THATCHER R, Research Scholar	BISHOP HEBER COLLEGE, TIRUCHIRAPPALLI-620017	margrate1998@gmail.com
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	34 WSMEE_(E- II)-64		The American College, Madurai -625004, Tamilnadu, India	jimelliot2002@gmail.com
11-03-2022 16:34	WSMEE_(E- II)-65	Mrs. ANNIE RIYA MICHAEL.C, Research Scholar	Holy Cross College (Autonomous), Nagercoil-629702, Tamil Nadu	annieriyamichael@holycrossngl.edu.in
		Mrs. GLADYS JOYSI M, Research Scholar	TAMIL NADU	joejoysi2020@gmail.com
11-03-2022 16:35		Mr. RAKESH KUMAR , Assistant Professor	K.L.P. COLLEGE REWARI -123401, Haryana	rakesh19singhal@gmail.com
11-03-2022 16:35		Mr. KARTHICK M, Research Scholar	TAMIL NADU, INDIA	7557karthick@gmail.com
11-03-2022 10:35	S WSMEE (E- II)-69	Mrs. GOMATHY A, PG Student Ms. SUHANI, PG Student	DR. KALAIGNAR GOVERNMENT ARTS COLLEGE , IYYERMALAI, KULITHALI, KARUR-DT, TAMILNADU Hindu College, University of Delhi- 110007, India	gomathythasan@gmail.com gothwal.suhani.2001@gmail.com
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11-03-2022 16:35 WSMEE_(E- II)-72	Mrs. PRASANNADEVI.K, Research Scholar	INDIA	prasannadevi.2020@vitstudent.ac.in
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11-03-2022 16:36 WSMEE_(E- II)-74 11-03-2022 16:36 WSMEE (E- II)-75		St. Joseph's college (Autonomous), Tamilinadu	jjsolomon411@gmail.com
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11-03-2022 16:37 WSMEE (E- II)-80	Mr. R. BALAMURUGAN, Research Scholar	National Institute of Technology, Tiruchirappalli - 620015, Tamil Nadu, India	r.balamurugan94@gmail.com
11-03-2022 16:37 WSMEE_(E- II)-81	Dr. M. ANURADHA , Assistant Professor	Srimad Andavan Arts and Science College , Tamiliadu	anuradharajeshkumar83@gmail.com
11-03-2022 16:38 WSMEE_(E- II)-82	Mr. AJIN I, Research Scholar	National Institute of Technology, Trichy, Tamil Nadu, India	iajin1995@gmail.com
11-03-2022 16:38 WSMEE (E- II)-83	Ms. HARSHANGINI ASHOKBHAI PATEL , PG Student	Uka tarsadia University , Dadra and Nagar haveli India	harshangini12@gmail.com
11-03-2022 16:38 WSMEE (E- II)-84	Mrs. B.RAJANI, Assistant Professor	Alpha Arts and Science College, Tamilnadu	rajini1212@gmail.com
11-03-2022 16:38 WSMEE (E- II)-85	Mr. ABHIK BHUIN, Research Scholar	VIT, CHENNAI, TN	abhikbhuin99@gmail.com
11-03-2022 16:39 WSMEE (E- II)-86	Mrs. NIRWINDER KAUR, Assistant Professor	Gaborone, Botswana	nirwinder@gmail.com
11-03-2022 16:39 WSMEE_(E- II)-87	Mr. PRAVEENKUMAR.N,	GNANAMANI COLLEGE OF TECHNOLOGY, NAMAKKAL, TAMILNADU, INDIA	praveenmass319@gmail.com
11-03-2022 16:39 WSMEE_(E- II)-88	Mr. M. PATTUMARI MUTHUKUMAR, PG Student	Annamalai University DDE , Chidambaram, Tamilnadu	narendiran28121995@gmail.com
11-03-2022 16:40 WSMEE_(E- II)-89	Mr. JOE FRANKLIN A, Research Scholar	Vellore Institute of Technology-Chennai Campus, Chennai 600127., Tamil Nadu, India	joefranklinphd@gmail.com
11-03-2022 16:40 WSMEE_(E- II)-90	Dr. VINITA KAPOOR, Assistant Professor	Sri Venkateswara College, University of Delhi, Delhi-110021.	vinitaarora85@gmail.com
11-03-2022 16:40 WSMEE_(E- II)-91	Ms. R.KARTHIKEYANI, Research Scholar	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore - 641043, India	21phphf003@avinuty.ac.in
11-03-2022 16:40 WSMEE_(E- II)-92	Dr. C. JEEVARATHINAM , Assistant Professor	Srimad Andavan Arts and Science College (Autonomous), Trichy - 620005, Tamil nadu	c.jeeva1987@gmail.com
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11-03-2022 16:41 WSMEE_(E- II)-95	Ms. B.UTHIRA SELVI, Research Scholar	V.O.CHIDAMBARAM COLLEGE, THOOTHUKUDI-8, TAMILNADU, INDIA	uthiraselvi14@gmail.com
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11-03-2022 16:41 WSMEE_(E- II)-97 11-03-2022 16:41 WSMEE_(E- II)-98	Dr. REX ROSARIO S , Assistant Professor	St. Joseph's College (Autonomous), Trichy - 620002, Tamilnadu, India	kingrosario@gmail.com
11-03-2022 16:41 WSMEE (E- II)-98	Ms. S. ILAKIYA, Research Scholar Mr. THANGA BHARATHI T, Research Scholar	No. F-05, Madanjeet school of green energy technology, Pondicherry University., India BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI - 620024, TAMIL NADU	ilakiyasekar94@gmail.com thangabharathi572@gmail.com
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11-03-2022 16:42 WSMEE (E- II)-101	Mr. ABHIJITH SREEKUMAR, Research Scholar	Centre for Nanoscience and Technology, Pondicherry University,605014, Pondicherry	sreehariabhijith@gmail.com
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11-03-2022 16:45 WSMEE_(E- II)-113		Dr. B.R Ambedkar Degree college, Hyderabad, Telangana	sameenabegum964@gmail.com
11-03-2022 16:46 WSMEE_(E- II)-114	Ms. KAYASTH PAYAL NAISHADHKUMAR , PG Student	Uka Tarsadia University, Maliba Campus, Mahuva, Surat , Gujarat,India	payalkayasth741@gmail.com
11-03-2022 16:46 WSMEE (E- II)-115	Dr. A. VIJI, Assistant Professor	Kongunadu College of Engineering and Technology Thottiyam , Taminadu India	vijiarangarasan@gmail.com
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11-03-2022 16:46 WSMEE_(E- II)-117 11-03-2022 16:46 WSMEE (E- II)-118		Cauvery College for Women (Autonomous) , Trichy - 18, Tamil Nadu , India	21217012.phy@cauverycollege.ac.in
11-03-2022 10.40 W3WEE (E- II)-110			olovanhyciac@amail.com
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11-03-2022 16:47 WSMEE_(E- II)-119	Dr. M. LAWRENCE, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India.	jefflara1968@yahoo.co.in
11-03-2022 16:47 WSMEE_(E- II)-119 11-03-2022 16:48 WSMEE_(E- II)-120	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India.	jefflara1968@yahoo.co.in alexphdphysics@gmail.com
11-03-2022 16:47 WSMEE (E- II)-119 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:48 WSMEE (E- II)-121	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor Dr. S. LOURDURAJ, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India.	jefflara1968@yahoo.co.in alexphdphysics@gmail.com lourduraj_ph2@mail.sjctni.edu
11-03-2022 16:47 WSMEE (E- II)-119 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:48 WSMEE (E- II)-121 11-03-2022 16:49 WSMEE (E- II)-122	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India.	jefflara1968@yahoo.co.in alexphdphysics@gmail.com lourduraj_ph2@mail.sjctni.edu ggsilvena@gmail.com
11-03-2022 16:47 WSMEE (E- II)-119 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:48 WSMEE (E- II)-121 11-03-2022 16:49 WSMEE (E- II)-122 11-03-2022 16:49 WSMEE (E- II)-123	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor Dr. S. LOURDURAJ, Assistant Professor Dr. G.GENIFER SILVENA, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Srimad Andavan Arts & Science College (Autonomous), Trichy -620005, Tamil Nadu, India	jefflara1968@yahoo.co.in alexphdphysics@gmail.com lourduraj_ph2@mail.sjctni.edu
11-03-2022 16:47 WSMEE (E- II)-119 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:48 WSMEE (E- II)-121 11-03-2022 16:49 WSMEE (E- II)-122 11-03-2022 16:51 WSMEE (E- II)-123 11-03-2022 16:51 WSMEE (E- II)-124 11-03-2022 16:52 WSMEE (E- II)-125	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor Dr. S. LOURDURAJ, Assistant Professor Dr. G.GENIFER SILVENA, Assistant Professor Dr. R. JAYASREE, Assistant Professor Ms. KHADIJA MURSHID AL-BALUSHI, Research Scholar Mrs. M.JANAKI, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Srimad Andavan Arts & Science College (Autonomous), Trichy -620005, Tamil Nadu, India International Maritime College Oman, Oman Kongunadu College of Engineering and Technology Thottiyam, Tamilnadu India	jefflara1968@yahoo.co.in alexphdphysics@gmail.com lourduraj_ph2@mail.sjctni.edu ggsilvena@gmail.com pankaj@andavancollege.ac.in
11-03-2022 16:47 WSMEE (E- II)-119 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:49 WSMEE (E- II)-122 11-03-2022 16:51 WSMEE (E- II)-123 11-03-2022 16:52 WSMEE (E- II)-125 11-03-2022 16:53 WSMEE (E- II)-125 11-03-2022 16:53 WSMEE (E- II)-126	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor Dr. S. LOURDURAJ, Assistant Professor Dr. G.GENIFER SILVENA, Assistant Professor Dr. R. JAYASREE, Assistant Professor Ms. KHADIJA MURSHID AL-BALUSHI, Research Scholar Mrs. M.JANAKI, Assistant Professor Ms. ABISHA. W, Research Scholar	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Srimad Andavan Arts & Science College (Autonomous), Tirchy-620005, Tamil Nadu, India International Maritime College Oman, Oman Kongunadu College of Engineering and Technology Thottiyam, Tamilnadu India Nesamony memorial christian college, marthandam -629191, India	jefflara1968@yahoo.co.in alexphdphysics@gmail.com lourduraj_ph2@mail.sjctni.edu ggsilvena@gmail.com pankaj@andavancollege.ac.in khadijalbalushi9@gmail.com janakisenthilkumar@gmail.com abiwilson1595@gmail.com
11-03-2022 16:47 WSMEE (E- II)-119 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:48 WSMEE (E- II)-120 11-03-2022 16:49 WSMEE (E- II)-121 11-03-2022 16:49 WSMEE (E- II)-123 11-03-2022 16:51 WSMEE (E- II)-124 11-03-2022 16:52 WSMEE (E- II)-125 11-03-2022 16:53 WSMEE (E- II)-126 11-03-2022 16:59 WSMEE (E- II)-127	Dr. M. LAWRENCE, Assistant Professor Dr. A. ALEXANDAR, Assistant Professor Dr. S. LOURDURAJ, Assistant Professor Dr. G.GENIFER SILVENA, Assistant Professor Dr. R. JAYASREE, Assistant Professor Ms. KHADIJA MURSHID AL-BALUSHI, Research Scholar Mrs. M.JANAKI, Assistant Professor Ms. ABISHA. W, Research Scholar Dr. S. DINAKARAN, Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India. Srimad Andavan Arts & Science College (Autonomous), Tirichy-620005, Tamil Nadu, India. International Maritime College Oman, Oman Kongunadu College of Engineering and Technology Thottiyam, Tamilnadu India Nesamony memorial christian college, marthandam -629191, India Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli- 620002, Tamil Nadu, India.	jefflara1968@yahoo.co.in alexphdphysics@gmail.com lourduraj ph2@mail.sjchni.edu ggsilvena@gmail.com pankaj@andavancollege.ac.in khadijalbalushi9@gmail.com janakisenthilkumar@gmail.com
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DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE (Autonomous) TIRUCHIRAPPALLI – 620002

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CERTIFICATE OF PARTICIPATION

This is to certify that	

has participated in "Webinar Series on Materials for Energy and Environment (WSMEE-22) - Event 2 (Topic: Recent Trends in Water Splitting)" on 03rd November 2022 organized by the Department of Physics, St. Joseph's College (Autonomous), Tiruchirappalli - 620 002, India through online mode.

Dr. N. RAVI Head of the Department Rev. Dr. M. AROCKIASAMY XAVIER SJ Principal



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Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu

	REPORT			
Activity	Webinar Series on Materials for Energy and			
Houring	Environment (WSMEE-22) - Event 3			
Date & Time	09-12-2022 & 03.00 PM TO 04.30 PM			
Topic(s)	"Recent Trends in Advanced Polymer Materials"			
	Online mode			
Platform/ venue	Google Meet			
	Passcode: https://meet.google.com/bck-hknc-qmh			
	Dr. NIRANJAN KARAK, FRSC,			
	Professor			
Resource Person(s)	Department of Chemical Sciences			
	Tezpur University, Tezpur			
	Assam, India.			
Total no. of Participants	134			
	Participants are			
	 erudite importance of polymers and how it is applied 			
	in different areas of technology.			
	 acquired knowledge of functionalities of 			
Outcome of the	nanomaterial composites such as RGO and RCD			
Programme/ Key Points	infusing with polymeric combinations to remediate			
, rogiamine as,	the polymer wastes.			
	 know about how Bio-Based hyper-branched 			
	epoxy overcome some weakness in normal			
	polymers such as its toughness and durability.			

* Documents enclosed

MEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI · 2



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Webinar Series on

Materials for Energy and Environment (WSMEE-22) - Event 2

Recent Trends in Water Splitting



03rd November 2022



رِيا) 3:00pm (IST)



Zoom Platform

(Zoom meeting link will be communicated with the registered participants)



Speaker



Dr. N. PONPANDIAN Professor & Head Department of Nanoscience and Technology Bharathiar University, Coimbatore.

About Speaker

He is a prominent researcher who is known for his work in Nanoscience, Energy devices and Sensors. He has h-index of 52 and over 270+ International and National publications. He is recently been awarded with as a Fellow of Royal Society of Chemistry (FRSC), UK in 2021 and Tamil Nadu Scientist Award (TANSA) in 2022. He is serving as a Coordinator of DST-FIST since 2014; Coordinator programme, UGC-SAP, since 2016 and Director of IQAC, since 2016.

Moderator



Dr. I. JOHNSON **Associate Professor** Department of Physics St. Joseph's College (Autonomous) Tiruchirappalli

Free Registration and E - Certificate will be provided for all Participants

Registration link: https://forms.gle/1yDLakh9vgSHCEVC6

Deadline : 01st November 2022 Or

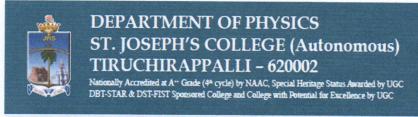
Scan the QR

Dr. H. Joy Prabu, Assistant Professor



E.mail ID: hjpsjc@gmail.com Cell No. : 9677625530

Cell No.: 9786114169



Webinar Series on Materials for Energy and Environment (WSMEE-22) - Event 3

Report

The Department of Physics, St. Joseph's College (Autonomous). Tiruchirappalli initiated and organized a webinar Series on the theme "Materials for Energy and Environment" with the objective to inculcate scientific knowledge among postgraduate students, research scholars, and young faculties. The second event of the webinar series is conducted on the topic entitled "Recent Trends in Advanced Polymer Materials" on 19-12-2022 at 03.00 pm to 04.30 pm through hybrid mode (online and offline).

The resource person for the webinar was Dr. Niranjan Karak, FRSC, Professor at the Department of Chemical Sciences, Tezpur University, Assam, India. The program started with a silent prayer and followed by an opening remark delivered by Dr. H. Joy Prabu, Assistant Professor of Physics. Dr. B. Kanickairaj Associate professor of Physics welcomed the resource person and moderated the session.

The resource person Dr. Niranjan Karak, elucidated the following points

- Introduction and Requirements for Polymerization.
- Importance of polymers and how it is applied in different areas of technology.
- Explaining the problem with synthetic polymers and ways to combat polymer waste.
- How advanced polymers and bio-based raw materials used in sustainable development
- Synthesis of dendrite and hyper-branched polymers inspired from nature.
- How Bio-Based hyper-branched epoxy overcome some weakness in normal polymers such as its toughness and durability.
- Functionalities of nanomaterial composites such as RGO and RCD infusing with polymeric combinations to remediate the polymer wastes.
- Applications in Agriculture, Engineering (self-cleaning) and medical field.
- Discussions about the synthetic and engineered polymers and degradation of them.
- Discussion on simulations of these polymer architecture for the development of the future of advanced materials.

The session ended with a round of discussion. Finally, Dr. S. Lourduraj Assistant Professor and Co-Ordinator of Department of Physics, expressed his gratitude towards the Management, Resource person, Participants, and Teaching and Non-teaching staff members. 134 participants across the country attended the webinar.

HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2

S.No	Timestamp	Honorific		Designation	NAME of the INSTITUTION with address	nicile (Eg.: Uttar Pradesh, India
1	12-19-2022 16:04:22	Mr.	G. NOVIN SENETRA ROY	Assistant Professor	St. Joseph's College (Autonomous), Trichy- 620002	Tamilnadu, India
2	12-19-2022 16:14:46	Prof.	S. DEVAKI	Assistant Professor	National college (Autonomous), Thiruchirapalli	Tamilnadu
3	12-19-2022 16:15:10	Prof.	MANOJ B	Professor	CHRIST (Deemed to be University)	Karnataka
4	12-19-2022 16:15:25	Ms.	S Thangeswari	Research Scholar	V. O. Chidambaram college, Thoothukudi-628008	Tamil Nadu
5	12-19-2022 16:15:32	Mrs.	P. PENILA SAMINY	Research Scholar	Holy cross College (autonomous), Nagercoil - 629004.	Tamilnadu, India.
6	12-19-2022 16:15:36	Dr.	M .KIRUTHIGA	Assistant Professor	Government College for women Autonomous Kumbakonam	Tamilnadu, India
7	12-19-2022 16:15:41	Mr.	S.RENGARAJ	Research Scholar	Pondicherry University	Puducherry
8	12-19-2022 16:15:49	Ms.	MARIAM G VARGHESE	Research Scholar	VIT UNIVERSITY, VELLORE	TAMIL NADU
9	12-19-2022 16:16:03	Dr.	Dr. S.SRINIVASAN	Assistant Professor	Shree Chandraprabhu Jain College, Minjur	Tamil Nadu
10	12-19-2022 16:16:04	Ms.	ANGELIN STEFFY A	Research Scholar	St.Joseph's College (Autonomous), Trichy-620002	Tamil Nadu, India
11	12-19-2022 16:16:09	Dr.	B.Benita Merlin	Assistant Professor	Alpha Arts and Science College	Tamilnadu
12	12-19-2022 16:16:18	Ms.	LENA S	Research Scholar	Pondicherry University(Central), Pondicherry-605014	Pondicherry, India
13	12-19-2022 16:16:19	Ms.	RENIHA BRUCE R M	Research Scholar	Nesamony memorial christain college, Marthandam - 629165.	Tamilnadu, India
14	12-19-2022 16:16:23	Ms.	MANJU. M	PG Student	Gobi arts and science college in Gobichettipalayam	Tamil Nadu
15	12-19-2022 16:16:23	Dr.	Dr. NAMDEV SHANKAR HARLE	Assistant Professor	Sadguru Gadage Maharaj College Karad	Maharashtra
16	12-19-2022 16:16:27	Ms.	B.UTHIRA SELVI	Research Scholar	V.O.CHIDAMBARAM COLLEGE, THOOTHUKUDI-628003.	TAMILNADU
17	12-19-2022 16:16:41	Ms.	E.ROSHAN ARA BEGUM	Assistant Professor	Dr.ZAKIR HUSAIN COLLEGE, ILAYANGUDI, SIVAGANGAI DISTRICT	TAMIL NADU
18	12-19-2022 16:16:45	Mrs.	S.M.FATHIMA KHYRUN	Research Scholar	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam- 625601	Tamil Nadu
19	12-19-2022 16:16:45	Dr.	R.RATHI	Assistant Professor	Sengamala Thayaar Educational Trust Women's College Autonomous, Sundarakkottai, Mannargudi	Tamii Nadu Tamilnadu. India
20	12-19-2022 16:16:48	Mr.	SHANU A S	Research Scholar	St. Thomas college (Autonomous), Thrissur	Kerala
21	12-19-2022 16:16:49	Ms.	ANAKHA A.K	Research Scholar	Nesamony Memorial Christian College, Marthandam	Tamilnadu
22	12-19-2022 16:16:54	Ms.	A. NIVETHA	Research Scholar	Holy Cross College (Autonomous), Tiruchirappalli	Tamilnadu, India
23	12-19-2022 16:17:03	Ms.	S. ANNE KAVITHA	Research Scholar	Holy Cross College, Nagercoil	Tamil Nadu, India
24	12-19-2022 16:17:13	Mr.	P. BHARATHI	Research Scholar	Rajah Serfoji Government College (Autonomous), Thanjavur -613005.)	Tamilnadu/India
25	12-19-2022 16:17:16	Ms.	S. KAMATCHI DEVI	Research Scholar	Sri paramakalyani college, Alwarkurichi	Tamil nadu, India
26	12-19-2022 16:17:24	Dr.	R. Jerald Vijay	Assistant Professor	St. Joseph's College (Autonomous), Trichy- 620002	Tamil Nadu
27	12-19-2022 16:17:25	Ms.	A.SELVARASI	Assistant Professor	Alpha Arts and science college	Tamil Nadu, India
28	12-19-2022 16:17:41	Dr.	REX ROSARIO S	Assistant Professor	St.Joseph's College (Autonomous), Trichy-620002	Tamilnadu, India
29	12-19-2022 16:17:42	Mr.	CHIVANAESAN JAWAHAR	Others	St. Joseph's College (Autonomous), Trichy- 620002	Tamil Nadu,India
30	12-19-2022 16:17:46	Dr.	A.MAGGIE DAYANA	Assistant Professor	St Joseph's College (Autonomous)	Tamil Nadu, India
31	12-19-2022 16:17:46	Dr.	S.JEYAKUMARI	Assistant Professor	SRI K.G.S.ARTS COLLEGE, SRIVAIKUNTAM	Tamilnadu, India
32	12-19-2022 16:17:55	Ms.	B. JANANI	PG Student	Gobi arts and science college, Gobichettipalayam	Tamil Nadu
33	12-19-2022 16:17:55	Dr.	P.GOMATHY	Assistant Professor	Sri Sarada College (Autonomous), Tirunelveli	Tamilnadu
34	12-19-2022 16:17:56	Ms.	M RASHIKA	Research Scholar	SSN college of engineering, Kalavakkam Chennai -603110	Tamilnadu, India
35	12-19-2022 16:17:57	Ms.	M.SANGARESHWARI	PG Student	Gobi arts and science college, gobichettipalayam.	Tamilnadu, India
36	12-19-2022 16:18:00	Dr.	BISWAJIT PATI	Assistant Professor	J. K. B. K. Government College, Cuttack - 753003	Odisha, India.
37	12-19-2022 16:18:04	Dr.	S. SELVAKUMAR	Assistant Professor	St. JOSEPH'S COLLEGE (AUTONOMOUS) ,TIRUCHIRAPPALLI-02.	Tamil Nadu,India
38	12-19-2022 16:18:07	Mrs.	SHEEM MERS S V	Research Scholar	Nesamony Memorial Christian College Marthandam	Kanya kumari, India
39	12-19-2022 16:18:13	Mr.	AJIN RAPHY	PG Student	St.Thomas college (Autonomous), Thrissur	Kerala
40	12-19-2022 16:18:15	Mrs.	S.K.JOHNSY SUGITHA	Research Scholar	Holy Cross College (Autonomous), Nagercoil	Tamilnadu
41	12-19-2022 16:18:32	Mrs.	ARUL MARY S	Research Scholar	Holy Cross College (Autonomous), Nagercoil-629004	Tamil Nadu, India
42	12-19-2022 16:18:36	Dr.	S.PRABHAKARAN	Assistant Professor	Jamal Mohamed College (Autonomous), Trichy-620020	Tamilnadu, India
43	12-19-2022 16:18:38	Ms.	SHANYUKTA UPADHYAY	Research Scholar	Christ Deemed to be University, Bengaluru 560029	Karnataka
43 44	12-19-2022 16:18:47	Ms.	HEMA K	PG Student	St. Joseph's College (Autonomous)	Tamil Nadu, India
44 45	12-19-2022 16:18:49	Ms.	DIVYA D	Research Scholar	LOYOLA COLLEGE CHENNAI-34	TAMILNADU, INDIA
45 46	12-19-2022 16:18:49	Dr.	SATISH BABULAL JADHAV	Assistant Professor		Maharashtra
46 47					R. B. Attal Art's, Science and Commerce College, Georai	малагаsntra Tamil Nadu
	12-19-2022 16:18:58	Mrs.	A. JASMINE AGNAL	Research Scholar	Nesamony Memorial Christian College, Marthandam	
48	12-19-2022 16:19:03	Dr.	GISA GRACE NINAN	Post Doctoral Fellow	CHRIST (DEEMED TO BE UNIVERSITY) BANGALORE -560029	Karnataka, India
49	12-19-2022 16:19:08	Ms.	S. INDHUMATHI	PG Student	GOBI ARTS & SCIENCE COLLEGE, GOBICHETTIPALAYAM.	TAMIL NADU
50	12-19-2022 16:19:13	Dr.	M.AUGUSTIN	Assistant Professor	St.Joseph's college (Autonomous), Trichy-620002	Tamilnadu, India
51	12-19-2022 16:19:17	Ms.	Joselene Suzan Jennifer P	Research Scholar	Joselene Suzan Jennifer P	TAMIL NADU
52	12-19-2022 16:19:27	Ms.	SUKANYA MURUGAN	PG Student	Vivekananda Global University, Jaipur	Rajasthan
53	12-19-2022 16:19:33	Mr.	AKKSHYAN S T	Others	St. Joseph's College (Autonomous), Trichy- 620002	Tamilnadu, India
54	12-19-2022 16:19:34	Mr.	ADITYAN S T	Others	St. Joseph's College (Autonomous), Trichy- 620002	Tamilnadu,India
55	12-19-2022 16:19:38	Ms.	S. BUVANA	Research Scholar	SSN College of Engineering, Kalavakkam-603110	Tamil Nadu, India

56	12-19-2022 16:19:44	Mr.	SALAMON J	Research Scholar	St. Joseph's college (Autonomous), Trichy- 620002.	Tamilnadu, India
57	12-19-2022 16:19:50	Dr.	R.KUMUTHINI	Assistant Professor	Sadakathullah Appa College (Autonomous), Tirunelveli-627007	Tamilnadu
58	12-19-2022 16:20:22	Ms.	SIVATHARANI B	Research Scholar	SRMIST, RAMAPURAM	Tamilnadu, India
59	12-19-2022 16:20:22	Ms.	F. Virginia	Research Scholar	Holy Cross College (Autonomous), Trichy - 620002.	Tamilnadu, India
60	12-19-2022 16:20:33	Mr.	T. BHARANIDHARAN	Research Scholar	SRM Institute of Science and Technology, Ramapuram, Chennai	Tamilnadu, India
61	12-19-2022 16:20:39	Mr.	BALAJI C	Research Scholar	Periyar University, Salem	TamilNadu
62	12-19-2022 16:20:39	Mr.	RAKESH KUMAR	Assistant Professor	KISHAN LAL PUBLIC COLLEGE REWARI -123401	HARYANA
63	12-19-2022 16:20:52	Mrs.	B.RAJANI	Assistant Professor	Alpha Arts and Science College	Tamilnadu, India
64	12-19-2022 16:21:09	Ms.	JELBY GEORGE	Research Scholar	CHRIST UNIVERSITY BENGALURU; KARNATAKA; 560029	KARNATAKA
65	12-19-2022 16:21:46	Dr.	Dr Mahalakshmi S	Assistant Professor	Ethiraj College For Women(Autonomous), Chennai - 600008	Tamil Nadu
66	12-19-2022 16:21:49	Mrs.	C.NIRMALA	Assistant Professor	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY,KINATHUKADAVU	TAMILNADU
67	12-19-2022 16:21:53	Mrs.	DEVY.K	Assistant Professor	St. Francis College for Women, Begumpet,Hyderabad	Hyderabad, India
68	12-19-2022 16:22:28	Ms.	VIDHYA P	Research Scholar	Nesomony Memorial Christian College, Marthandam.	Tamilnadu
69	12-19-2022 16:22:28	Dr.	P.ADALARASU	Assistant Professor	St.Joseph's College,Trichy	Tamilnadu
70	12-19-2022 16:22:29	Ms.	S.KAMATCHI DEVI	Research Scholar	Sri Paramakalyani College, Alwarkurichi	Tamilnadu
71	12-19-2022 16:22:52	Mrs.	S. JANAKI	Research Scholar	St. Xavier's College (Autonomous), Tirunelveli - 627002	Tamil Nadu, India
72	12-19-2022 16:22:57	Mr.	M.EDWARD FRANKLIN	Others	St.Joseph's College (Autonomous),Trichy (2022 Passed out)	Tamilnadu, India
73	12-19-2022 16:23:01	Ms.	S. AUXILIA RUBY	Research Scholar	Holy Cross College (Autonomous), Trichy-620002	Tamil Nadu, India
74	12-19-2022 16:23:09	Dr.	J. WILSON	Assistant Professor	Alagappa University, Karaikudi - 630 003	Tamilnadu, India
75	12-19-2022 16:23:28	Mr.	MUSUNURU G V SANKARACHARYULU	Assistant Professor	MAHATMA GANDHI GOVT ARTS COLLEGE,MAHE(UT)673 311	PONDICHERRY, INDIA
76	12-19-2022 16:23:33	Mr.	JOE RAJA RUBAN M	Research Scholar	Loyola College, Chennai-34.	Tamil Nadu, India.
77	12-19-2022 16:23:35	Mr.	S. ARUN KUMAR	Research Scholar	Department of Physics, Periyar University, Salem.	Tamilnadu
78	12-19-2022 16:23:39	Mr.	S.DHINESHKUMAR	Research Scholar	BISHOP HEBER COLLEGE, PUTHUR-TRICHY-17.	TAMILNADU
79	12-19-2022 16:24:06	Mr.	N. RAJA	Research Scholar	Annamalai University, Chidambaram - 608002	Tamilnadu
80	12-19-2022 16:24:11	Mrs.	BALAYAZHINI.B	Research Scholar	H.H.The Rajah's college (Autonomous) Pudukkottai -622001.	Tamilnadu,India
81	12-19-2022 16:25:08	Mrs.	L.SHYLA	Research Scholar	Nesamony memorial Christian College, Marthandam	Tamil Nadu
82	12-19-2022 16:25:35	Mr.	A. INFANT SAMUEL	PG Student	St. Joseph's College Autonomous, Trichy-2	Tamilnadu, India
83	12-19-2022 16:25:44	Dr.	D. DAVID KIRUBAKARAN	Assistant Professor	K.S.R College of Arts and Science For Women, Tiruchengode -637215	Tamilnadu , India
84	12-19-2022 16:25:58	Mr.	GOKUL S	Research Scholar	Saveetha dental college, chennai-600077	Tamilnadu, India
85	12-19-2022 16:26:22	Ms.	V. GUNAVATHI	PG Student	Gobi Arts and Science College (Autonomous), gobi.	Tamil Nadu
86	12-19-2022 16:27:05	Ms.	K.SRI JANANI	PG Student	St.Joseph's College (Autonomous), Trichy -620002	Tamilnadu,India
87	12-19-2022 16:27:52	Mr.	G. SAKTHI	PG Student	Gnanmani college of engineering	Tamilnadu, India
88	12-19-2022 16:28:05	Ms.	G.ROSHINI GUNASEKARAN	Research Scholar	SSN College of Engineering	Tamilnadu,India
89	12-19-2022 16:28:10	Mr.	M.MATHESWARAN	PG Student	Gnanamani College of Technology	Tamilnadu,India
90	12-19-2022 16:28:10	Ms.	SRUTHI S	Research Scholar	VELLORE INSTITUTE OF TECHNOLOGY, VIT, VELLORE-632014	TAMILNADU, INDIA
91	12-19-2022 16:28:26	Dr.	P.E.AKILADESWARI	Assistant Professor	JUSTICE BASHEER AHMED SAYEED COLLEGE FOR WOMEN (AUTONOMOUS COLLEGE FOR WOMEN (AUTONOMOUS	Tamilnadu
92	12-19-2022 16:28:37	Dr.	Dr.Pradeep Devendra Gaikwad	Associate Professor	R.B.Attal Art's Science and Commerce College Georai Beed	Maharashtra
93	12-19-2022 16:28:46	Mrs.	ADLIN D STEFFY	Research Scholar	Nesamony Memorial Christian College, Marthandam	TAMIL NADU
94	12-19-2022 16:29:22	Dr.	P. PERIASAMY	Assistant Professor	Nehru Institute of Engineering and Technology, Coimbatore	Tamil Nadu, India
95	12-19-2022 16:29:49	Dr.	K.RAJAN	Associate Professor	St.joseph's College (Autonomous), Tiruchirappalli	Tamil Nadu ,India
96	12-19-2022 16:29:54	Ms.	AGNES. J	Research Scholar	St. Xavier's College (Autonomous), Palayamkottai-627002	India
97	12-19-2022 16:30:56	Ms.	E.PRIYANKA	Research Scholar	SSN COLLEGE OF ENGINEERING, KALAVAKKAM	Tamil nadu,india
98	12-19-2022 16:31:05	Mr.	V.S. PRASATH	PG Student	GOBI ARTS & SCIENCE COLLEGE, GOBICHETTIPALAYAM.	Tamilnadu , India
99	12-19-2022 16:31:54	Mr.	S.MUHAMMAD ARBAAZ	PG Student	VIT University, Vellore.	Tamil Nadu
100	12-19-2022 16:32:07	Dr.	DHONDIRAM TUKARAM SAKHARE	Assistant Professor	Shivaji Art's, Comm. & Science College Kannad Dist. Aurangabad Maharashtra	Maharashtra
101	12-19-2022 16:32:52	Ms.	JOSELYN ELIZABETH ABRAHAM	Research Scholar	CHRIST (DEEMED TO BE UNIVERSITY)	BANGALORE, KARNATAKA
102	12-19-2022 16:32:55	Mr.	EBENEZER THANINAYAGAM	PG Student	St. Joseph's College (Autonomous), Trichy- 620002	TAMIL NADU
103	12-19-2022 16:33:12	Dr.	V P DEVARAJAN	Assistant Professor Research Scholar	K.S.R College of Arts and Science for Women, Tiruchengode	Tamil Nadu
104 105	12-19-2022 16:33:15	Ms. Mr.	S.ARIVAZHAGI V.GOWTHAM	Research Scholar PG Student	government arts college for mens (autonomous),trichy-600070	chennai,india
	12-19-2022 16:33:34		V.GOWTHAM P. AJITH		Gobi Arts and science college	Tamilnadu,india
106 107	12-19-2022 16:33:54 12-19-2022 16:35:16	Mr. Dr.	P. AJITH Dr.M.Lawrence	Research Scholar Assistant Professor	St. Xavier's College (Autonomous) St.Joseph's college (Autonomous)	Tamil Nadu Tamil nadu
107	12-19-2022 16:35:16	Dr. Ms.	SONNU BENNY	Research Scholar	St. Joseph's college (Autonomous) Loyola college, Chennai - 34.	TAMIL NADU
109	12-19-2022 16:35:56	Mr.	S.SIVAMANI	PG Student	Gnanamani Collage of Technology	Tamilnadu,India
110	12-19-2022 16:36:14	Dr.	SANTHI. M	Assistant Professor	Srri Meenakshi Government Arts College for Women, Madurai _02.	Tamil Nadu, India
111	12-19-2022 16:36:29	Mr.	ANISH ANITIN P J	PG Student	St. Joseph's College (Autonomous), Trichy- 620002	Tamil Nadu, India
	10 2022 10.00.29	14/1.	, a destination of	. O Gradoni	Subscipling Sollings (International), Therif Section	. amii rada, maa

112	12-19-2022 16:37:49	Dr.	S. LOURDURAJ	Assistant Professor	Department of physics, St. Joseph's College Tiruchirapalli	TAMIL NADU, India
113	12-19-2022 16:38:29	Mr.	B.S.AUSTLIN	PG Student	St.Joseph's College (Autonomous), Trichy-620002	Tamil Nadu,India
114	12-19-2022 16:38:36	Prof.	CELIN HEMALATHA F	Assistant Professor	St. Joseph's College, Trichy	India
115	12-19-2022 16:38:42	Ms.	N.F.FEMI FREDERIC	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE, MARTHADAM.	TAMILNADU,INDIA
116	12-19-2022 16:39:11	Mrs.	MARY DAYANA	Assistant Professor	St.Josephs college	Tamilnadu
117	12-19-2022 16:40:28	Dr.	M. MAHENDIRAN	Assistant Professor	Department of Physic, DRBCCC Hindu College, Pattabiram Chennai-72	Tamilnadu
118	12-19-2022 16:40:34	Mrs.	P.PREMJOTHI	Assistant Professor	D.R.B.C.C.C Hindu College	India
119	12-19-2022 16:40:38	Dr.	G. GENIFER SILVENA	Assistant Professor	St. Joseph's College (Autonomous), Trichy	Tamilnadu, India
120	12-19-2022 16:40:49	Dr.	A. Alexandar	Assistant Professor	Joseph's College (Autonomous), Trichy- 620002)	Tamilnadu
121	12-19-2022 16:40:55	Mr.	A. GOWDHAMAN	Research Scholar	Periyar University, Salem-636011, Tamil Nadu	Tamil Nadu, India
122	12-19-2022 16:41:25	Dr.	E. GUNASUNDARI	Assistant Professor	DRBCCC HINDU COLLEGE, CHENNAI -72	India
123	12-19-2022 16:41:27	Mr.	BARATH M. J.	PG Student	St. Joseph's College (Autonomous), Trichy- 620002.	Tamilnadu, India
124	12-19-2022 16:41:42	Dr.	S. DINAKARAN	Assistant Professor	St. Joseph's College (Autonomous), Tiruchirappalli - 620002	Tamil Nadu, India
125	12-19-2022 16:42:53	Ms.	D.PRIYA	Assistant Professor	Alpha arts and science college	Tamil nadu
126	12-19-2022 16:42:55	Mr.	JERLIN XAVIOUR X	PG Student	St. Joseph's college (autonomous), Trichy-620002	Tamil Nadu, India
127	12-19-2022 16:46:45	Ms.	J.THARANCIA TEENA MARY	PG Student	St.Joseph's College(Autonomous),Trichy-620002)	Tamilnadu,India
128	12-19-2022 16:58:54	Dr.	H. Joy Prabu	Assistant Professor	Department of Physics, St. Joseph's College (Autonomous), Tiruchirapalli-620 002	Tamilnadu
129	12-19-2022 17:02:29	Dr.	G.SAMUEL	Assistant Professor	ST.JOSEPH'S COLLEGE(Auotnomous)	Tamilnadu-India
130	12-19-2022 17:04:33	Dr.	T.AROKIYA MARY	Assistant Professor	Loyola College (Autonomous), Chennai - 600034	Tamil Nadu, India
131	12-19-2022 17:04:41	Dr.	A. SINTHIYA	Assistant Professor	St. Joseph's College(A), Trichy 2	Tamilnadu
132	12-19-2022 17:05:19	Dr.	V.RAJESH BABU	Assistant Professor	V.RAJESH BABU	TAMIL NADU
133	12-19-2022 17:08:57	Mrs.	M.Nalini	Assistant Professor	DRBCCC HINDU COLLEGE. PATTABIRAM	India
134	12-19-2022 21:23:11	Dr.	L. ANTONY SELVAM	Assistant Professor	st. Xaviers college (Autonomous),Palayamkottai -627002	Tamilnadu, INDIA



DEPARTMENT OF PHYSICS ST. JOSEPH'S COLLEGE (Autonomous) TIRUCHIRAPPALLI – 620002

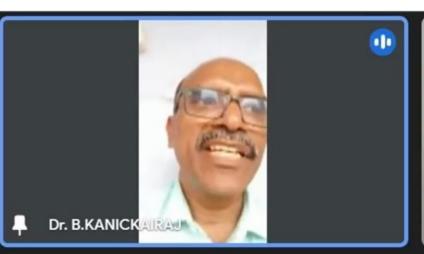
Recent Trends in

Advanced Polymer Materials

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Webinar Series on

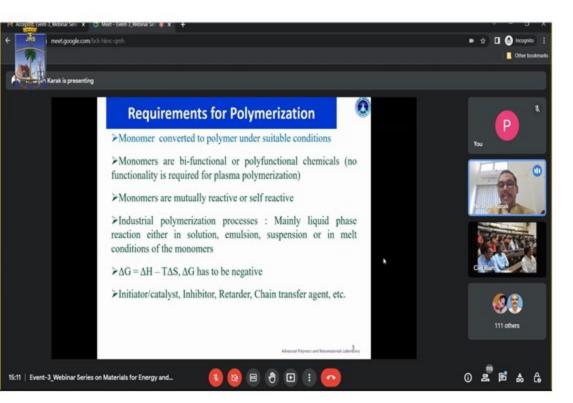
Materials for Energy and Environment (WSMEE-22) - Event 3

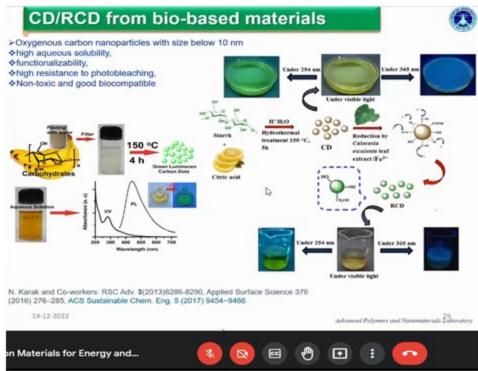












WHAT ARE THE ADVANCED POLYMERS?

- > High performance for its functions
- Low dependence on fossil fuel/fixed feedstock avoiding the depletion of petroleum reserves
- Environmentally benign and biodegradability
- > Sustainable development
- Ease of availability, handling and transportation
- ▶ High carbon credit (mitigate green house gas, one ton CO₂)
- Triple bottom line approach (Social, Ecological and Economical)
- ➤ Follows tents of Green Chemistry

Advanced Polymers and Nanomaterials Liboratory



DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE(Autonomous)

TIRUCHIRAPALLI - 620002

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Phone: 0431 - 4226438, 2700320, 'Fax: 0431 - 2701501 Website: www.sjctni.edu

REPORT		
Activity	Workshop on "Computational Experiments in Physics – SCILAB & Circuit Simulation"	
Date & Time	16 &17-12-2022 & 20.12.2022_ 09.45 AM TO 01.00 PM & 02.30PM TO 06.30 PM	
Topic(s)	"Computational Experiments in Physics – SCILAB & Circuit Simulation"	
Platform/ venue	Offline mode Physics Smart Classroom	
Resource Person(s)	Dr. B. Kanickairaj Associate Professor of Physics St. Joseph's College (Autonomous) Tiruchirappalli-620 002.	
Total no. of Participants	50	
Outcome of the Programme/ Key Points	Participants are understand the basics and technical knowledge of SCILAB and its applications. acquired knowledge of programme writing skills in SCILAB. stimulated simple circuits and operational amplifier circuits using Proteus.	

* Documents enclosed

HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2

"Computational Experiments in Physics – SCILAB & Circuit Simulation"

DEPARTMENT OF PHYSICS organized a Workshop for I PG students on "Computational Experiments in Physics - SCILAB & Circuit Simulation" with Hands-on Training. The SCILAB workshop was conducted during forenoon and afternoon of 16th and 17th December 2022. The Workshop on Circuit Simulation - Proteus was conducted on 20th December 2022 from 2:30pm to 6:30pm.

About 50 I PG students of both shift I and II were participated. The workshop served as a platform to learn the aspects of SCILAB and Circuit Simulation. Dr.B.Kanickairaj Associate Professor of Physics demonstrated the software and trained the students with many physics based problems. Students were instructed to write program for 15 physics based problems. Simulation of simple circuits and operational amplifier circuits using Proteus were learnt by the students. Dr. Maggie Dayana and Dr. Lawrence, I PG Class in charges of shift I and II were coordinated the workshop.

1. d. Hugai Degne 2. M. Lower

I PG Class in charge (Shift I & II)

Head of the Department

Workshop on "Computational Experiments in Physics – SCILAB & Circuit Simulation"





Workshop on "Computational Experiments in Physics – SCILAB & Circuit Simulation"





Workshop on "Computational Experiments in Physics – SCILAB & Circuit Simulation"







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REPORT		
Activity	Physics Association Special Talk December 2022	
Date & Time	22-12-2022_ 11.30 AM	
Topic(s)	"Advanced Non-Destructive Testing Techniques – Infrared Thermography and Acoustic Emission Testing"	
Platform/ venue	Offline mode Sail Hall	
Resource Person(s)	Mr. S. S. Ananthan, Former general manager Research and Development section of Bharath Heavy Electrical Limited, Trichy and currently the Consultant of TryCAE Industrial Engg. Pvt Ltd., Tiruchirappalli	
Total no. of Participants	39	
Outcome of the Programme/ Key Points	 Participants are understand the basic ideas behind non-destructive testing and why it is important in any industry. knew the various types of NDT namely; Visual, x-ray, Infrared and ultrasonic techniques acquire the testing skill about detection of defect or cracks' in large bridges and how to monitor the safety of the bridge. 	

* Documents enclosed

HEAD. DEPT. OF PHYSICS
St. JOSEPH'S COLLEGE
(AUTONOMOUS)
TIRUCHIRAPPALLI - &

PHYSICS ASSOCIATION



Department of Physics St. Joseph's College

Tiruchirappalli, Tamilnadu, India 620002 www.sjctni.edu

PHYSICS ASSOCIATION SPECIAL TALK

Title : Advanced Non-Destructive Testing

Techniques - Infrared Thermography

and Acoustic Emission Testing

Date : 22nd December 2022

Time : 11.30 AM

Venue : Smart Class room (Physics)

CHIEF GUEST



Mr. S. S. ANANTHAN
EX-DGM, BHEL, Tiruchirappalli,
Consultant, TryCAE Industrial
Engg. Pvt Ltd., Tiruchirappalli

PRESIDED BY



Prof. A. PATRICK PRABHU,Associate Professor of Physics
St. Joseph's College (Autonomous),
Tiruchirappalli

ALL ARE INVITED

Physics Association Special Talk December 2022 Report

The Physics Association organized a special talk for the for the month of December on 22-9-2022 at Smart Classroom (department of Physics) between 11.30 and 1.15 PM. The faculty and PG students of both shift-1 and shift-2 of the department of Physics participated in the programme. Mr. S. S. Ananthan, former general manager Research and Development section of Bharath Heavy Electrical Limited, Trichy and currently the Consultant of TryCAE Industrial Engg. Pvt Ltd., Tiruchirappalli was the chief guest of the day.

The meeting began with a prayer song. Prof. A. Patrick Prabhu, Associate Professor of Physics presided the meeting by welcoming the gathering and introducing the chief guest to the audience.

Mr. S. S. Ananthan delivered the chief guest address on the title "Advanced Non-Techniques – Infrared Thermography and Acoustic Emission Testing". Destructive Testing He, started the meeting by introducing the basic ideas behind nondestructive testing and why it is important in any industry. He then listed the various types of NDT namely; Visual, x-ray, Infrared and ultrasonic techniques. He first explained in the detail the principle, working and instrumentation of acoustic emission Testing. Later, He demonstrated the applications in various industries, one interesting application was the detection of defect or cracks in large bridges. He displayed some of places where this technique is used to monitor the safety of the bridge. He also explained to how to reduce noise during monitoring using mathematical modelling and software. After this, he moved on to explain the principles of infrared thermography. He illustrated the concept of interpreting a thermograph; the red colour indicates hotter temperatures and blue indicate colder temperatures. Based on the thermograph, he demonstrated the applications in industries like oil refineries where continues monitoring of gas leakage is essential. He also offered future suggestions for students in employing these NDT for agricultural products.

R. Jerald Vijay, President of Physics Association and assistant professor of Physics thanked everyone who contributed for the success of the meeting. Ms. Monica, student, II MSc shift 1 did the master of ceremony for the entire programme.

Head of the Department

President, Physics Association

PHYSICS ASSOCIATION



Department of Physics St. Joseph's College

Tiruchirappalli, Tamilnadu, India 620002 www.sjctni.edu

PHYSICS ASSOCIATION SPECIAL TALK

Title : Advanced Non-Destructive Testing

Techniques - Infrared Thermography

and Acoustic Emission Testing

Date : 22nd December 2022

Time : 11.30 AM

Venue : Smart Class room (Physics)



















PHYSICS ASSOCIATION Special Talk

Student Attendance

DATE: 22-12-2022 TIME: 11:30 AM VENUE: Physics Smart Room

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PHYSICS ASSOCIATION Special Talk

Student Attendance

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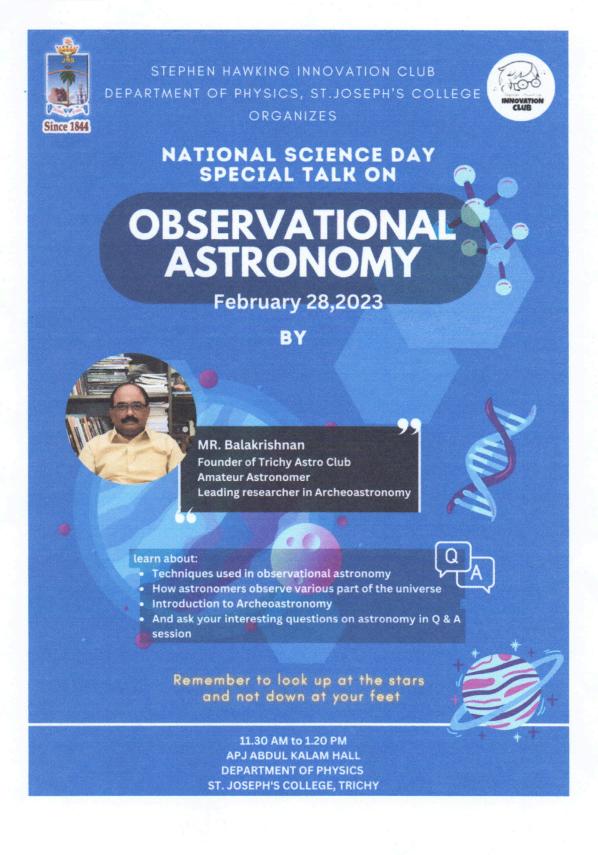
28.02.2023



STEPHERN HAWKINGS INNOVATION CLUB
DEPARTMENT OF PHYSICS
ST. JOSEPH'S COLLEGE, TRICHY - 02



Invitation:



Introduction:

National Science Day is celebrated every year on February 28th in India to mark the discovery of the Raman effect by Sir CV Raman, which was a significant breakthrough in the field of science. The celebration of this day aims to create awareness about the importance of science and its applications in our daily lives. On this occasion, a special talk was organized on Observational Astronomy and Archeoastronomy by Mr. Balakrishnan, the founder of the Trichy Astro Club, who is a leading researcher in archeoastronomy and a well-known educator. The event was held on February 28th, 2023, and witnessed the participation of more than 60 students from different departments.

Motive:

The motive of the talk was to introduce the students to the world of observational astronomy and archeoastronomy, and to highlight the contributions of ancient Indian astronomers in these fields. The talk aimed to inspire the students to pursue a career in astronomy and to motivate them to take an interest in STEM innovation. India has a rich history of astronomical knowledge that has been passed down through generations. Mr. Balakrishnan aimed to share this knowledge with the students and motivate them to explore the field of astronomy.

Event highlights:

The event began with a welcome address by Mr. Harish Aravindh, who introduced the chief guest and highlighted his achievements in the field of astronomy. The event was coordinated by Mr. Asrar Ahmed, who kept the audience engaged throughout the talk. Dr. P. Christuraj and Dr. Antony Raj, the mentors of the Innovation Club, explained the future

plans of the Stephen Hawking Innovation Club, which aims to promote innovation in STEM fields. The head of the department, Dr. N. Ravi, felicitated the chief guest, Mr. Balakrishnan, for his contributions to the field of astronomy.

Mr. Balakrishnan then took the stage and began his talk by discussing how ancient people in South India pioneered in measuring the movement of stars and planets and devised the first time measurements. He highlighted the contributions of ancient Indian astronomers such as Aryabhata, Varahamihira, and Bhaskara in the field of astronomy. He also explained how observational astronomy revolutionized the idea of time, calendar, months, and years.

The talk then focused on how astronomy shaped the modern world and the recent findings of Mr. Balakrishnan's own research. He explained how his research on archeoastronomy has helped in understanding the astronomical significance of ancient monuments such as the Stonehenge and the Great Pyramids. He shared his insights on the importance of observing astronomical events and how it can provide us with important information about the past.

Outcome of the event:

The talk inspired the students to take an interest in astronomy and to pursue a career in STEM fields. The students were also introduced to the Trichy Astro Club and the Stephen Hawking Innovation Club, which provide opportunities for students to explore their interests in astronomy and innovation. The event was a great success and received positive feedback from the participants.

The event helped the students to appreciate the vastness of the universe and the role of astronomy in shaping our understanding of it. It also showcased the various opportunities available to students who are interested in exploring the field of astronomy. Mr. Balakrishnan

encouraged the students to think beyond the conventional fields of science and to explore the many possibilities that exist in the world of astronomy and innovation.

Conclusion:

The celebration of National Science Day is an important event that aims to promote awareness about science and its applications in our daily lives. The talk on Observational Astronomy and Archeoastronomy delivered a clear idea about the field of astronomy and the importance of it. The students participated enthusiastically and asked tons of questions in Q and A session. In conclusion the event was a grand success and students were exposed to astronomy and various special fields in astronomy.













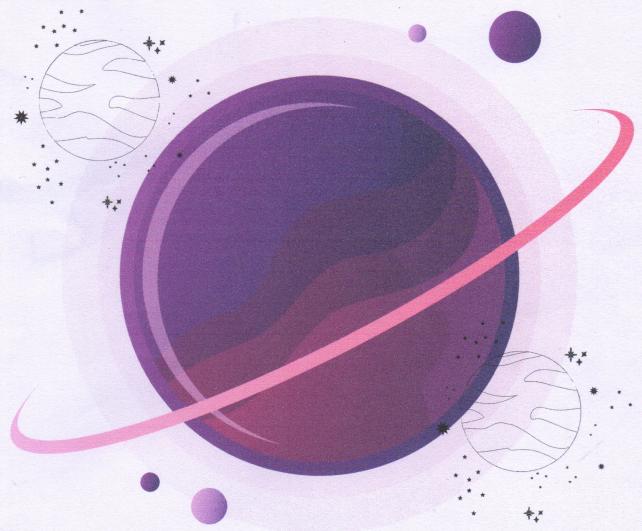
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STAR PARTY 2023 MONDAY, JANUARY 09



Exploring new worlds

PUBLIC SKY OBSERVATION PROGRAM THROUGH MESSIER TELESCOPE

STEPHEN HAWKING INNOVATION CLUB ST.JOSEPH'S COLLGE, TIRUCHIRAPPALLI

Cor- P. Christuraj

Title: Star Party Event at St. Joseph's College

Date: 09.01.23

Venue: St.Joseph's College, Trichy - 02

Introduction:

THE STEPHEN HAWKING INNOVATION CLUB AT ST. JOSEPH'S COLLEGE IN TIRUCHIRAPPALLI ORGANIZED A STAR PARTY EVENT ON 09.01.23 WITH THE INTENTION OF PROVIDING STUDENTS. TEACHERS, AND PARENTS OF TIRUCHIRAPPALLI WITH AN OPPORTUNITY TO OBSERVE THE NIGHT SKY THROUGH TELESCOPES AND LEARN ABOUT THE PLANETS AND OTHER CELESTIAL OBJECTS. THE EVENT WAS HELD AT THE COLLEGE'S FRONT LAWN IN FRONT OF THE ARUPE LIBRARY AND IT WAS METICULOUSLY COORDINATED BY THE CLUB'S MENTOR, DR. P. CHRISTURAJ. THE EVENT WAS PLANNED TO BE A PERFECT BLEND OF EDUCATION AND ENTERTAINMENT

Event description:

THE STAR PARTY EVENT BEGAN AT 6 PM AND LASTED FOR THREE HOURS, ENDING AT 9 PM. DURING THIS TIME, PARTICIPANTS WERE ABLE TO OBSERVE JUPITER AND ITS FOUR MOONS, MARS, AND THE ORION NEBULA AS WELL AS STAR CLUSTERS LIKE THE HYADES AND PLEIADES THROUGH TELESCOPES SET UP FOR THE EVENT. A TOTAL OF 60 PEOPLE PARTICIPATED IN THE EVENT, INCLUDING STUDENTS AND TEACHERS FROM ST. JOSEPH'S COLLEGE AS WELL AS STUDENTS FROM HOLY CROSS COLLEGE, DHANALAKSHMI ENGINEERING COLLEGE, AND NATIONAL COLLEGE. THE EVENT WAS OPEN TO ALL THE STUDENTS AND TEACHERS FROM THE COLLEGE AND OUTSIDE AND ALSO TO THE PARENTS OF THE STUDENTS. THE PARTICIPANTS WERE EXCITED AND CURIOUS ABOUT THE EVENT AND WERE LOOKING FORWARD TO LEARNING ABOUT THE NIGHT SKY.

Faculty and students involved:

THE EVENT WAS COORDINATED BY DR. P. CHRISTURAJ, THE MENTOR OF THE STEPHEN HAWKING INNOVATION CLUB. OTHER PROFESSORS AND STUDENTS FROM THE PHYSICS DEPARTMENT AND OTHER DEPARTMENTS OF THE COLLEGE ALSO PARTICIPATED IN THE EVENT AND HELPED IN SETTING UP THE TELESCOPES AND OBSERVING THE NIGHT SKY. MR. JEREMIYAH TITUS GAVE THE INTRODUCTION TO THE EVENT SNAD EXPLAINED THE VARIOUS STUDY BEING CONDUCTED AT STEPHEN HAWKING INNOVATION CLUB.MR. AAZHIMUKILAN EXPLAINED THE BASICS OF STARGAZING AND TELESCOPE OBSERVATIONS TO THE PARTICIPANTS. HE ALSO PROVIDED THE PARTICIPANTS WITH A BRIEF INTRODUCTION ON THE HISTORY OF TELESCOPE AND ITS EVOLUTION. MR. GNANAPRAKASH AND MR. HARISH ARAVINDH WERE IN CHARGE OF OPERATING THE CCD CAMERA, AND MR. BALAMURUGAN AND MR. ASRAR ÁHMED WERE RESPONSIBLE FOR OPERATING AND TRACKING THE TELESCOPE FOR PUBLIC OBSERVATION. THE SECOND YEAR UNDERGRADUATE STUENDTS WERE SO HELPFUL DURING THE EVENT. THEIR ACTIVE PARTICIPATION AND VOLUNTEERSHIP MADE THIS EVENT WONDERFUL.

Highlight:

ONE OF THE MAJOR HIGHLIGHTS OF THE EVENT WAS THE USE OF THE CCD CAMERA THAT WAS CONNECTED TO A PROJECTOR AND CAST THE IMAGES ON A BIGGER SCREEN, ALLOWING STUDENTS TO OBSERVE THE SKY OBJECTS WITH BETTER CLARITY AND IN MORE DETAIL. THEY WERE ABLE TO OBSERVE THE BANDS OF JUPITER AND ITS MOONS, WHICH OTHERWISE WOULD HAVE BEEN DIFFICULT TO SEE THROUGH THE TELESCOPE. ADDITIONALLY, A QUESTION-ANSWER SESSION WAS HELD FOR HALF AN HOUR WHERE STUDENTS ASKED INTERESTING QUESTIONS AND THE STUDENTS OF THE INNOVATION CLUB ANSWERED AND EXPLAINED THE VARIOUS CELESTIAL OBJECTS THAT WERE BEING OBSERVED. MANY STUDENTS WERE CURIOUS ABOUT THE LIFE ON OTHER PLANETS AND THE STUDENTS OF THE INNOVATION CLUB EXPLAINED ABOUT THE POSSIBILITIES AND THE CURRENT RESEARCH GOING ON IN THE FIELD OF ASTROBIOLOGY.

Conclusion:

OVERALL, THE STAR PARTY EVENT WAS A HUGE SUCCESS AND RECEIVED POSITIVE FEEDBACK FROM ALL THE PARTICIPANTS. THE STEPHEN HAWKING INNOVATION CLUB HOPES TO CONTINUE ORGANIZING SIMILAR EVENTS IN THE FUTURE TO PROVIDE STUDENTS AND THE COMMUNITY WITH THE OPPORTUNITY TO LEARN MORE ABOUT THE NIGHT SKY AND THE WONDERS OF THE UNIVERSE. THE CLUB ALSO AIMS TO CONTINUE TO PROVIDE STUDENTS WITH HANDS-ON EXPERIENCE IN STARGAZING AND TELESCOPE OBSERVATIONS AND TO PROMOTE AN INTEREST IN THE FIELD OF ASTRONOMY. THE EVENT PROVIDED AN OPPORTUNITY FOR THE STUDENTS AND TEACHERS TO BOND AND TO SHARE THEIR KNOWLEDGE AND INTEREST IN ASTRONOMY. IT WAS A GREAT PLATFORM FOR THE STUDENTS TO LEARN AND EXPLORE THE UNIVERSE IN A FUN AND INTERACTIVE WAY.

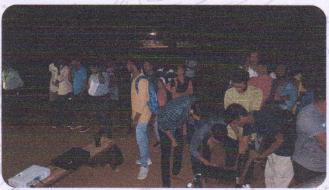
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Photo gallery:















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DEPARTMENT OF PHYSICS St. JOSEPH'S COLLEGE(Autonomous) TIRUCHIRAPALLI - 620002

Nationally Accredited at A++ Grade (4th cycle) by NAAC & College with Potential for Excellence by UGC

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Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu

REPORT		
Activity	International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS-2023)	
Date & Time	10 th & 11 th February 2023	
Topic(s)	"Current Research and Advancements in Materials Science and Spectroscopy"	
Platform/ venue	Hybrid mode Sail Hall (offline) Google Meet (online): https://meet.google.com/tyo-fboe-sca	
Resource Person(s)	 Dr. G. Muralidharan, Gandhigram Rural Institute, Dindigul. Dr. S. Gunasekaran, ISPA, Chennai Prof. Jiban Podder, Bangladesh. Prof. M N Ponnusamy, Chennai Prof. Pandiyan, Mexico Dr. C. Sekar, Karaikudi Dr. N. Ponpandian, Coimbatore. Dr. T. C. Sabari Girisun, Tiruchirappalli 	
Total no. of Participants	241	
Outcome of the Programme/ Key Points	 The conference was focused on stimulating the participants with innovative research ideas in the global level. There were totally 6 technical sessions, keynote address and inaugural and valedictory addresses delivered by eminent persons of the research field in national and international level. Totally 97 abstracts were received and was selected for oral and poster presentations and five best oral and three best poster presentations were awarded. 	

* Documents enclosed

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TIRUCHIRAPPALLI - 2



DEPARTMENT OF PHYSICS

St. JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI.

in association with

INDIAN SPECTROPHYSICS ASSOCIATION

Organizes



FEBRUARY 10-11, 2023



Chief Patron

Rev. Dr. Leonard Fernando SJ Rector, St. Joseph's College

Patron

Rev. Dr. K. Amal SJ Secretary, St. Joseph's College

Chairman

Rev. Dr. M. Arockiasamy Xavier SJ Principal, St. Joseph's College

Conference President

Prof. S. Gunasekaran President, ISPA, Chennai

Convenor

Dr. N. Ravi Associate Professor & Head, Department of Physics

Co-Convenor

Dr. S. Alfred Cecil Raj Associate Professor of Physics & Controller of Examinations

Organising Secretary

Dr. J. Charles Assistant Professor of Physics

Jt. Organising Secretaries

Dr. R. Jerald Vijay Assistant Professor of Physics

Dr. S. Dinakaran Assistant Professor of Physics

Organising Committee

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 Mr. A. Patrick Prabhu
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- Dr. S. Lourduraj Dr. P. Adal Arasu Dr. M. Lawrence
- Dr. A. Sinthiya Ms. B. Mary Dayana
- Mr. G. Novin Senetra Roy Dr. M. Augustin Dr. G. Genifer Silvena Dr. S. Rex Rosario
- Dr. A. Alexandar Dr. A. Selvakumar
- Mr. D. Joseph James Irudayaraj Ms. F. Celin Hemalatha

Focus of the Conference

International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS - 2023) is organised by the Department of Physics, St. Joseph's College in collaboration with ISPA. The conference aims to proclaim knowledge and share new ideas amongst the professionals and students from research areas of Spectroscopy, Crystallography, Biophysics, Medical Physics, Molecular Dynamics, Materials Science, Crystal Growth and Nanotechnology to share their research experiences and indulge in interactive discussions and technical sessions at the event. The Conference will also have a space for colleges/institutions to present their services, products, innovations and research results. The conference would create a platform for the scientists to interact with research scholars on the latest findings in their respective fields. The research papers of the conference intend to throw light on the application oriented innovative research in their respective fields.

Focussed Areas

Spectroscopy Crystal Growth Crystallography **Bio Materials** Ceramic Materials Drug Design **DFT** Analysis

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Luminencence Materials Magnetic Materials Molecular dynamics Modelling & Simulation MEMS Design Nanotechnology **Nonlinear Optics**

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Optoelectronics Surface Engineering Sensor & Smart Materials Superconductors Semiconductors Solar Cells **Transport Properties** Thin Films

INVITED SPEAKERS



Prof. Jiban Podder, Ph.D., F.B.A.S.

Professor, Department of Physics,

Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh



Prof. M. N. Ponnusamy, Ph.D., D.Sc.

Emeritus Professor, Centre for Advanced Studies in Crystallography and Biophysics, University of Madras, Chennai



Prof. T. Pandiyan, Ph.D.

Professor, Faculty of Chemistry

National Autonomous University of Mexico (UNAM), Mexico



Prof. S. Gunasekaran, Ph.D., D.Sc.

President, ISPA and Dean, Research & Development

St. Peter's Institute of Higher Education and Research, Chennai



Dr. N. Ponpandian, Ph.D.

Professsor & Head, Department of Nanoscience and Technology, Bharathiar University, Coimbatore



Dr. C. Sekar, Ph.D.

Professor, Department of Bioelectronics & Biosensors Alagappa University, Karaikudi



Dr. T. C. Sabari Girisun, Ph.D.

Assistant Professor, Department of Physics Bharathidasan University, Tiruchirappalli



About the Institution

St. Joseph's is an Autonomous College of the Bharathidasan University, Tiruchirappalli, located in the central part of Tamil Nadu, South India. It was established in 1844 by the Society of Jesus (The Jesuits). The moto of the college is "For the Good and the True". The college celebrated its centenary in 1944, sesqui-centenary in 1995 and Dodransbicentenary in 2019. The college was recognised by UGC as a College with Potential for Excellence (CPE) in 2004 and 2014, NAAC has reaccredited the college at the highest A++ Grade (Cycle-IV) in 2019 and is ranked as 27th position in NIRF of 6th edition (2021) under college category. St. Joseph's is the only college in Tamil Nadu that has been awarded with Special Heritage Status by UGC. The college trains young men and women of quality to be leaders in all walks of life so that they serve the people of the Nation in truth justice and love. Accordingly, this college strives to be an agent of social change, by incorporating the scientific and technological growth in its UG, PG and Research (M.Phil/Ph.D) programmes.

About the Department

This Century-old Department of Physics started B.A. Physics (1881), B.Sc (Hons.) Physics (1911), B.Sc (1930), M.Sc Physics (1961), Ph.D. (1971) and M.Phil (1977). Other than its own evolution, it had given birth to two departments, Computer science (1983) and Electronics (1993) in the college. To cater the needs of the students, BSc and MSc (Physics) programmes in Self-financing section (shift II) were established in 1982 and in 2004 respectively. Presently there are 31 faculties and 9 non teaching staff in the department. The department is constantly developing with the continuous support of management and the funding of UGC, DST-FIST, DST-SERB, DRDO and CSIR. The department had established national and international collaboration in many fields of research in recent years and organises symposia and conferences periodically at all levels to ignite the students with scientific spirit. Over a period of 140 years, the alumni of the department have served and are still serving the nation in various capacities. Notable among them are Bharat Ratna, Dr APJ Abdul Kalam, the former President of India and Dr G N Ramachandran, an Indian Physicist who was known for his work, "The Ramachandran Plot" for understanding peptide structure, nominated for Nobel prize (Doctoral student of Nobel laureate Sir C. V. Raman).

About the ISPA

"Indian Spectro Physics Association (ISPA)" is a brain child of Veteran Professor and Scientist Dr. S. Gunasekaran. ISPA was started on April 23, 1998, it is a registered society under whose auspices, conferences, workshops and seminars are organized. ISPA is the peak of a strong belief that enlightening young minds and empowering them to pursue research through Spectroscopy. ISPA has an enviable record of having organized 18 International conferences and 22 National Conferences, ISPA also has organized 20 State Level Technical Seminars in Physical Sciences for PG and M.Phil. students, since 1999. Indian Spectrophysics Association (ISPA) finds its place in encouraging renowned and young scientists by honoring them with ISPA Awards in the recognition of the research findings of the scientists. 8 Veteran scientist Awards, 45 Life Time Achievement Awards and 75 ISPA Dr. S. Gunasekaran Awards are given to researchers who have made excellent contributions in the field of Research, during Conferences/ Seminars organized by ISPA.

International Advisory Committee

Dr. Wolfgang Kiefer, University of Würzburg, Germany

Dr. H.M. Heise, Fachhochschule Südwestfalen, Germany

Dr. Jakrapong Kaewkhao, NPRU, Thailand

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Dr. S. Sudhakar, CECRI, Karaikudi

Dr. K. Venkatramanan, SCSVMV University, Kanchipuram

Dr. S. Arumugam, Bharathidasan University, Tiruchirappalli

Awards

ISPA Veteran Scientist Award ISPA Life Time Achievement Award ISPA Dr. S. Gunasekaran Award Best Oral Presentation Awards

Registration Details

Registration and payment can be done at the College website: www.sjctni.edu/ICCAM52023/

PG Students Rs. 300 Research Scholars Faculty Members | Rs. 800 Industry Person Rs. 1000

Important Dates

Jan. 25, 2023 **Abstract Submission** : Feb. 01, 2023 Acceptance Notification Last date for Registration: Feb. 08, 2023 : Feb. 20, 2023 Full Paper Submission

Accommodation

The participants are requested to make their own arrangements for accommodation. A number of hotels are located in and around the campus.

Call for Papers

The authors intending to participate in this conference are requested to send their abstracts of their research findings within 250-300 words (MS Word, 12pts, Times New Roman with 1.5 line spacing) on all topics related to the focused areas to iccams2023@gmail.com on or before 25th January 2023. The technical committee shall duly inform the oral presentation to the authors of the selected abstracts. Peer-reviewed articles will be published in Scopus indexed journal. Name of the journal shall be announced shortly.

For Communication

Dr. J. CHARLES

Organising Secretary-ICCAMS-2023

St. Joseph's College (Autonomous) Tiruchirappalli -620 002

: +91-9486064756/+91-9965998129 Mob

: iccams2023@gmail.com Website: www.sjctni.edu/ICCAMS2023/



11.30

10.30

12.45

11.45

03-00 - 03-45 pm

Praver

Technical Session - 3

Topic:

Understanding of environmental issues and possible solutions through nano-chemistry

Technical Session - 4

Topic:

Irradiation induced enhancement in the sensing performance of nanostructured tungsten trioxde

11.30 - 11.45 am

Technical Session - 5

Topic:

2D Materials for Energy Applications

12.45 - 01.45 pm

Technical Session - 6

Topic:

Welcome Address

Presidential Address

Valedictory Address Feedback Session

Vote of Thanks

National Anthem

High Tea

Certificate Distribution

Smart Materials for Laser Safety Prof. Pandiyan

National Autonomous University of Mexico (UNAM), Faculty of Chemistry, Mexico City, Mexico

Chair Person: Dr. I. Johnson

Dr. C. Sekar

Dept. of Bioelectronics and Biosensors, Alagappa University, Karaikudi 630003.

Chair Person: Prof. A. Patrick Prabhu

Tea Break

Dr. N. Ponpandian

Professor & Head, Department of Nano Science & Technology, Bharathiar University, Coimbatore.

Chair Person: Dr. B. Kanickairaj

Lunch

Dr. T. C. Sabari Girisun

Devices Nanophotonics Laboratory, School of Physics, Bharathidasan University, Tiruchirappalli – 620 024.

Chair Person: Prof. S. Dominique

VALEDICTION

Dr. S. Alfred Cecil Raj Co-Convener – ICCAMS 2023

Dr. A.N. Paul Angelo

Dean, School of Physical Sciences

Prof. S. Gunasekaran From the Participants

Dr. J. Charles

Organising Secretary – ICCAMS 2023





St. Joseph's College (Autonomous)

Tiruchirappalli - 620 002.

in association with

INDIAN SPECTROPHYSICS ASSOCIATION



International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS - 2023)

FEBRUARY 10-11, 2023



08 45 a m Registration 09.30 - 10.30 am Inauguration

Prayer

Welcome Address Dr. N. Ravi

Convener - ICCAMS 2023

Honouring Guests

Presidential Address Rev. Dr. K. Amal SJ

Secretary, St. Joseph's College (Autonomous), Tiruchirappalli-02.

Paramountcy of the Conference Dr. S. Gunasekaran, Ph.D., D.Sc.

Founder President.

Indian Spectrophysics Association (ISPA)

Dean, Research & Development

St. Peter's Institute of Higher Education & Research, Avadi, Chennai - 600 054.

Inaugural Address Dr. G. Muralidharan

> Dean, School of Sciences, The Gandhigram Rural Institute (Deemed to be University), Gandhigram - 624 302, Dindigul

Release of Proceedings

CONFERRING ISPA AWARDS

ISPA Life Time Recognition Award

Prof. M. Sargurumoorthy

Former Executive Director

Tamil Nadu Science and Technology Centre,

Chennai

ISPA Life Time Achievement Award

Prof. P. Sagayaraj

Associate Professor (Retd.),

Department of Physics, Loyola College,

Chennai

ISPA Dr.S. Gunasekaran Award

Dr. N. Lawrence M.Sc., Ph.D.,

Former Professor, Department of Physics St. Joseph's College, Tiruchirappalli

Vote of Thanks

30 10.30 -

md

45

di

11.45

Keynote Address

An overview of eco-friendly electrode materials for high performance supercapacitor

11.30 - 11.45 am

Dr. N. Ravi

Head, Department of Physics St. Joseph's College, Tiruchirappalli

Dr. S. Alfred Cecil Raj

Controller of Examination, Department of Physics, St. Joseph's College, Tiruchirappalli

Dr. R. Jerald Vijav

Jt. Organising Secretary – ICCAMS 2023

Prof. Jiban Podder, Ph.D. FBAS, FBPS

Department of Physics, & Dean, Faculty of Science, Bangladesh University of Engineering Technology, Dhaka-1000, Bangladesh



High Tea (Sponsored by ISPA)

Emeritus Professor, Centre of Advanced

University of Madras, Guindy Campus,

Study in Crystallography and Biophysics,

TECHNICAL SESSIONS

Technical Session -1

Topic:

Biophysics, Crystallography and Design of Drugs

Chair Person:

Dr. S. Jayakumar

Chennai-600 025.

Prof. M N Ponnusamy

Department of Physics Ramakrishna Mission Vivekananda College, Mylapore, Chennai

Lunch

Paper Presentations



Prof. S. Gunasekaran

TANSA Awardee, Dean, Research & Development, St. Peter's Institute of Higher Education and Research, Avadi, Chennai - 600 054.

Chair Person: Dr. S. Alfred Cecil Rai

12.45 - 01.45 pm 01.45-03.30 pm 03.30 - 03.45 pm

Technical Session -2

Topic:

Probing the influence of FTIR Spectroscopy using ATR Technique for Materials Characterisation

pm 04.45 03.45

Conference Report: International Conference on Current Research and Advancements in Materials Science and Spectroscopy – 2023

Summary

The two days International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS-2023) was held on 10th & 11th February 2023 was organized by Department of Physics, St. Joseph's College, Trichy, Tamilnadu, India in association with Indian Spectroscopy Association (ISPA). The conference was focused on stimulating the participants with innovative research ideas in the global level. There were about 241 participants, among them 76 were outside participants from NIT, Universities & deemed Universities, research centers and neighboring colleges. There were totally 6 technical sessions, keynote address and inaugural and valedictory addresses delivered by eminent persons of the research field in national and international level. The Indian Spectroscopy Association (ISPA) conferral awards were awarded to three achievers in research areas. Totally 97 abstracts were received and was selected for oral and poster presentations and five best oral and three best poster presentations were awarded. The subsequent conference report elaborates on the key points of all the technical sessions as well as the programme conduct and ceremonials.

ICCAMS - 2023 Day 1 (10.2.2023)

- The *ICCAMS-2023* programme started with *241 participants* covering a wide range of research scholars, faculty members, and PG students from different colleges in and around Tamilnadu.
- The event was inaugurated at 9:30 AM with a prayer song and the inaugural welcome address was given by Dr. N. Ravi, Head of the Department of Physics, SJC
 - Rev. Fr. Secretary, Dr. K. Amal, SJ gave the presidential address and highlighted on the recent developments in research on different materials. He proudly mentioned that "most of the dignitaries present in the inauguration were 'alumni' of St. Joseph's College". He called this gathering as a 'Galaxy of Intellectuals'. And he ended with a note that 'exploitation should be avoided'.
 - The Paramountcy of the conference was delivered by Dr. S. Gunasekaran, Founder President, Indian Spectrophysics Association (ISPA) which emphasized "the broad spectrum of research materials such as ferrites, magnetic materials, semiconductors, nanomaterials, etc." He also specified about the world renowned 'Tamil scientist Sir. C. V. Raman' and his important contributions to the field of spectroscopy.
 - The *inaugural address* was articulated by *Dr. G. Muralidharan*, *Dean*, *School of Sciences*, *The Gandhigram Rural University*, *Dindigul*. He explained about the importance and processes of glass fabrication with simple examples which even amateurs can understand.
 - The *conference souvenir* was released which comprised of *97 abstracts* for both oral and poster presentations from participants of different universities.
 - The conferral of three types of ISPA awards was bestowed to the eligible achievers.
 - The 1st award ISPA Life Time Recognition Award was bestowed to Prof. M. Sargurumoorthy, Former Executive Director, Tamilnadu Science and Technology Centre, Chennai.
 - The 2nd award ISPA Life Time Achievement Award was given to Prof. P. Sagayaraj, Associate Professor (Retd.), Loyola College, Chennai.

- The 3rd award ISPA's Dr. S. Gunasekaran award was bestowed to Dr. N. Lawrence, Former Professor of Physics, St. Joseph's College, Trichy.
- The inaugural Vote of Thanks was delivered by Dr. R. Jerald Vijay, Assistant Professor of Physics & Jt. Organizing Secretary of ICCAMS-2023, SJC, Trichy.
- The keynote address was delivered by Prof. Jiban Podder, Dean and Faculty of Science, Bangladesh University of Engineering Technology, Bangladesh gave "an overview on the properties of different electrode materials for high performance and eco-friendly super capacitors".
- The 1st technical session was followed by the keynote address delivered by Prof. M. N. Ponnusamy, Emeritus Professor, Centre of Advanced study in Crystallography and Biophysics, university of Madras, Chennai. "His session highlighted the different structures of crystallography and its properties, applications in the design of drugs". The session was chaired by Dr. S. Jayakumar, Head of Physics, Ramakrishna Mission Vivekananda College, Chennai.
- There were 39 oral, 13 online and 16 poster presentations. The oral presenters presented their work in four different venues according to their field of research. The online participants were allowed to present through the Google meet link provided to them. The oral, poster and online presentations were evaluated with one internal and one external evaluator.
- The 2nd technical session was delivered by Dr. S. Gunasekaran, St. Peter's Institute of the Higher Education and Research. "He invited everyone to have love for knowledge with the example of Sir. C. V. Raman, the great scientist of Indian soil. He enlightened the young researchers about the quality of research and created awareness on the concepts of h-index, i-10 index and g-index in a detailed manner which was of great use to all the participants of the day". The session was chaired by Dr. S. Alfred Cecil Raj, Associate Professor of Physics & Co-convener of ICCAMS-2023, SJC, Trichy.

ICCAMS - 2023 Day 2 (11.2.2023)

- The second day's programme started at 9:30 AM with the previous day's programme highlights. The second day of the conference was exclusively committed with four technical sessions delivered by eminent researchers of the associated fields to enrich the participants with research ideas and to offer a platform for their research queries.
- The technical session on day 2 was started as a continuation of Day 1 with the *Third Invited Talk* delivered by *Prof. Pandiyan, Faculty of Chemistry, National Autonomous University of Mexico*. His talk gave "An insight on the photocatalytic applications of materials. He also explained the need of super capacitors and batteries. He discussed on the different synthesis mechanisms available for device fabrication for the participants queries". The session was chaired by Dr. I. Johnson, Associate Professor of Physics, SJC, Trichy.
- The *Fourth Invited Talk* was delivered by *Dr. C. Sekar, Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi.* The talk was "focused on the composition & function of human body and the happy chemicals produced in the system. He elaborately explained the synthesis of materials and the influencers in the reaction for the fabrication of biosensors. He talked about the neurotransmitter and its important functioning of human body and the novel work of determining neurotransmitters using biosensors done in his laboratory". The session was chaired by Prof. A. Patrick Prabhu, Associate Professor of Physics, SJC, Trichy.
- The Fifth Invited Talk was presented by Dr. N. Ponpandian, Professor & Head of Nanoscience and Technology, Bharathiyar University, Coimbatore. He elaborated on the different types of materials and its properties such as carbon based materials, 2D materials, Graphene, etc. He explained about how based on the properties of the materials it can be chosen for energy storage applications. He also detailed about the different strategies of improving device efficiency. The session was chaired by

- Dr. B. Kanickairaj, Associate Professor of Physics & Head of Electronics Department, SJC, Trichy.
- The Sixth Invited Talk was presented by Dr. T. C. Sabari Girisun, Assistant Professor, School of Physics, Bharathidasan University, Trichy. He explained elaborately from the basic of lasers and nanomaterials properties and the effects of laser on the properties of nanomaterials. He mentioned that like Stone Age and Bronze Age it's the age of nanomaterials. He described the influence of non-linear optics in laser applications. The session was chaired by Prof. S. Dominique, Assistant Professor of Physics, SJC, Trichy.
- The Valedictory Function was started with a *Prayer Song* and the *Welcome Address* was given by *Dr. S. Alfred Cecil Raj, Co-Convener ICCAMS-2023, SJC*.
- The *Presidential Address* was given by *Dr. A. N. Paul Angelo, Dean, School of Physical Sciences, SJC* and he commended the efforts made by the Physics Department especially the organizing committee members for the successful conduct of ICCAMS 2023. He mentioned that the participants must have gathered lots of research ideas from the two days conference since they are exposed to different innovative ideas through the arranged technical sessions. He insisted the participants to avoid multitasking in research and concentrate on in-depth research knowledge.
- The *Valedictory Address* given by the chief guest *Dr. S. Gunasekaran*, *President, ISPA*, *Chennai* congratulated the department for conducting a well-organized conference. He insisted on the things such as "time management, human resource management, brain management and ethics" are important for doing research as a take up message from the conference for the participants.
- The feedback was asked from the participants. The participants mentioned that the conference was very informative and they appreciated the platform given for them to present their research works as oral and poster presentations and they acknowledged that the hospitality was good. The

- awardees of best oral and poster presenters were announced and it was distributed.
- The *Vote of Thanks* was delivered by *Dr. J. Charles, Organizing Secretary, ICCAMS-2023, Assistant Professor of Physics, SJC*. He thanked the efforts of each committee for their work towards the successful conduct of the programme
- The event was ended with the 'National Anthem'.

HEAD. DEPT. OF PHYSICS
St. JOSEPH'S COLLEGE
(AUTONOMOUS)

TIRUCHIRAPPALLI - 2



St. JOSEPH'S COLLEGE (Autonomous), TIRUCHIRAPPALLI – 620002

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in association with

Indian Spectrophysics Association Chennai

International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS 2023)

CERTIFICATE OF EXCELLENCE

This is to certify that	
has acted as a	in the International Conference on
Current Research and Advancements in Materials Science and	Spectroscopy (ICCAMS 2023) held on
10 th and 11 th February, 2023 at St. Joseph's College (Autonomous), T	iruchirappalli - 620002.

Dr. S. Gunasekaran Founder President, ISPA Dr. J. Charles Organizing secretary Dr. N. Ravi Convenor



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in association with

Indian Spectrophysics Association Chennai

International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS 2023)

CERTIFICATE OF PARTICIPATION

and Advancemen	nd presented Oral/Poster presentation in the International Conference on Current Resear ts in Materials Science and Spectroscopy (ICCAMS 2023) held on 10 th and 11 th February, 20 lege (Autonomous), Tiruchirappalli - 620002.
Paper Title :	

Dr. S. Gunasekaran Founder President, ISPA Dr. J. Charles Organizing secretary Dr. N. Ravi Convenor



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in association with

Indian Spectrophysics Association Chennai

International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS 2023)

CERTIFICATE OF EXCELLENCE

Advancements in	/ III prize for Oral / Poster in the International Conference on Current Research and Materials Science and Spectroscopy (ICCAMS 2023) held on 10 th and 11 th February, 2023 at (Autonomous), Tiruchirappalli - 620002.
Paper Title :	

Dr. S. Gunasekaran Founder President, ISPA Dr. J. Charles Organizing secretary Dr. N. Ravi Convenor



St. JOSEPH'S COLLEGE (Autonomous), TIRUCHIRAPPALLI – 620002

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in association with

Indian Spectrophysics Association Chennai

International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS 2023)

CERTIFICATE OF PARTICIPATION

This is to certify that	
, ,	

has participated in the International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS 2023) held on 10th and 11th February, 2023 at St. Joseph's College (Autonomous), Tiruchirappalli - 620002.

Dr. S. Gunasekaran Founder President, ISPA Dr. J. Charles Organizing secretary Dr. N. Ravi Convenor



International Conference on Current Research and Advancements in Materials Science and Spectroscopy (ICCAMS 2023)



February 10-11, 2023



























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	REPORT				
Activity	Webinar Series on Materials for Energy and Environment (WSMEE 22 - 23) - Event 4				
Date & Time	30-01-2023_ 03.30 PM to 04.30 PM				
Topic(s)	"Advancements in Graphene based 2D Materials"				
Platform/ venue	Online mode Google Meet : https://meet.google.com/ryj-yjhr-jfa				
Resource Person(s)	Dr. V. GUNASEKARAN Assistant Professor & JSPS Fellow Department of Materials-Sciences School of Technology, CUTN Thiruvarur, Tamil Nadu.				
Total no. of Participants	331				
Outcome of the Programme/ Key Points	 Introduction and history of Graphene and Graphene based applications. Importance of graphene and how it is applied in different areas of technology. Consumer applications of Graphene and it's soon realization. Graphene based solar photo voltaic cells and how it can be used to store and reuse energy. Graphene based supercapacitors and how different supercapacitors of various types such as hybrid and pseudo can be constructed by using graphene. 				

^{*} Documents enclosed





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Webinar Series on

Materials for Energy and Environment (WSMEE 22 - 23) - Event 4



Speaker



Dr. V. GUNASEKARAN
Assistant Professor & JSPS Fellow
Department of Materials Sciences
School of Technology, CUTN
Thiruvarur, Tamil Nadu.

About Speaker

Dr. V. Gunasekaran is an eminent professor, who expertise in 2D nanomaterials, water splitting, supercapacitors and MEMS devices. He has been awarded with JSPS Post-Doctoral Fellowship Award, Tohoku University, Japan (2014-2016). He is currently working on a DST-SERB project on 'Water treatment using Graphene-oxide nanoparticles with real time zero-discharge technique'. He published over 74+ research articles and 7 book chapters, currently having a h-index of 20 and i10-index of 30.

Moderator



Dr. J. CHARLES
Assistant Professor
Department of Physics
St. Joseph's College (Autonomous)
Tiruchirappalli

Free Registration and E - Certificate will be provided for all Participants

Registration link: https://forms.gle/LAfL7ubbdoQGiSc96

Deadline : 28th January 2023

Or

Scan the QR



E.mail ID: hjpsjc@gmail.com Cell No.: 9677625530

Dr. H. Joy Prabu, Assistant Professor



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30th January 2023 Advancements in

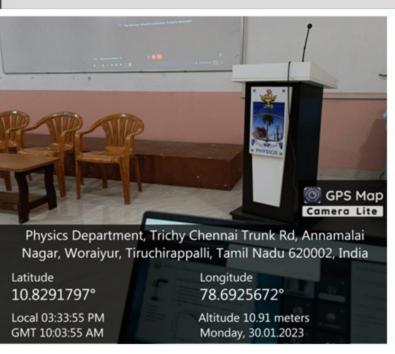


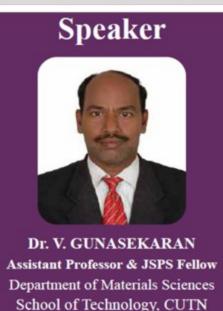
Google meet

Graphene based 2D Materials

Webinar Series on

Materials for Energy and Environment (WSMEE 22 - 23) - Event 4





Thiruvarur, Tamil Nadu.



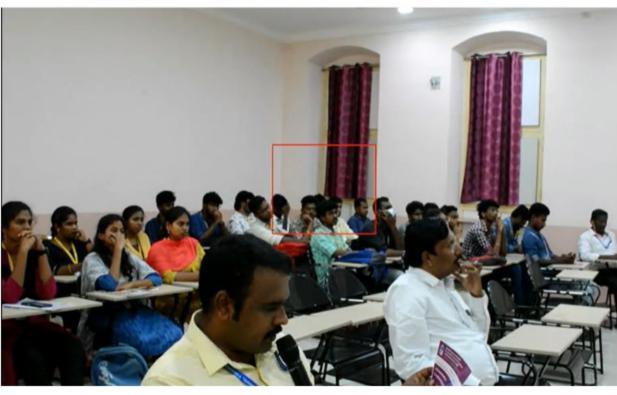












Webinar Series on

30th January 2023 ② 3:00 - 4:30pm (IST)

PARTICIPANTS LIST

Ma	aterials f	or Energy and Environment (WSMEE 22 - 23) - Ev		OO - 4:30pm (IST) pogle meet PARTICIPANTS LIST	
S.No F	lonorifics	Name in BLOCK LETTERS	Designation	NAME of the INSTITUTION with address (Eg.: St. Joseph's College (Autonomous), Trichy- 620002)	State, Domicile
1	Mr.	Celestine Amalan	PG Student	Celestine Amalan	Tamil Nadu
2	Mr.	N.S.SATHYA NARAYANAN F	PG Student	St. Joseph's College (Autonomous), Trichy- 620002	Tamilnadu,India
3	Mr.	A . Balamurugan	PG Student	St. Joseph's College (Autonomous), Trichy- 620002	TAMIL NADU
4	Ms.	Rufina B	PG Student	Rufina B	Tamil Nadu
5	Mr.	W.ROSHAN LOURDUSAMY	PG Student	St. Joseph's College(Autonomous) Trichy -620002	Tamil Nadu
6	Mr.	J. THOMSON F	PG Student	St. Joseph's College (Autonomous), Trichy- 620002	Tamil Nadu
7	Ms.		PG Student	St. Joseph's College, Trichy.	Tamil Nadu
8	Ms.	R.NANCY BENEDICTA F	PG Student	St.Joseph College, Trichy	Tamil Nadu
9			PG Student	St. Joseph's College(Autonomous)	Tamil Nadu
10	Ms.	P. MERLINE ASHA	PG Student	St. Joseph's College	Tamil Nadu, India.
11			Assistant Professor	St. Joseph's College	Tamilnadu
12	Mr.		PG Student	St. Joseph's College (Autonomous), Trichy- 620002	Tamil Nadu, India
13	Mr.		PG Student	St. Joseph's college (autonomous), trichy-02	Tamil Nadu, India
14	Ms.		PG Student	St.Joseph's college (Autonomous),Trichy-620002	Tamilnadu,india
15	Mr.		Assistant Professor	St. Joseph's College (Autonomous), Trichy- 620002	Tamilnadu, India
16	Mr.		PG Student	St. Joseph's College (Autonomous), Trichy	Tamil Nadu, India
17	Mr.		PG Student	ST.JOSEPH'S COLLEGE(AUTONOMOUS)	TamilNadu
18	Mr.		PG Student	St. Joseph's College (Autonomous), Trichy- 620002)	Trichy, India
19			Others	SSIPMT, RAIPUR	CHHATTISGARH, INDIA
20	Mr.		Research Scholar	The M.D.T.Hindu College, Tirunelveli - 10	Tamil Nadu
21			Research Scholar	Crystal Growth Centre, Anna University, Chennai	Tamil Nadu
22		, i	Research Scholar	Pope's college, Sawyerpuram	Tamilnadu India
23	Ms.		PG Student	St Joseph's College (Autonomous), Trichy -2	Tamilnadu, India
24	Ms.		Research Scholar	Nesomony Memorial Christian College Marthandam	Tamilnadu
25	Dr.		Assistant Professor	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-641043	Tamilnadu, India
26			Assistant Professor	Anna University, Chennai.	Tamil Nadu
27	Mr.	-	Others	Nirmalagiri College Kuthuparamba, Kannur 670701	Kerala
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241	Mr.	NEELANJAN BHATTACHARJEE	Research Scholar	Indian Institute of Technology Bombay	Maharashtra
242	Mr.	Mr.PRABAKARAN S.	Assistant Professor	M.A.M SCHOOL OF ENGINEERING	TAMILNADU., TAMILNADU
243	Ms.	ASHA SHALINI V J	Others	Technical Assistant, Department of Chemical Engineering AC Tech CAMPUS, Anna University Chennai 600025, India	Tamil Nadu, India
244	Ms.	PIRATLA SUSHMA	PG Student	PB siddhartha college of arts &science	Andhrapradesh
245	Ms.	LINDA VINNARASI.G	PG Student	St . Joseph college, Autonomous, Trichy-2	Tamilnadu
246	Ms.	V. NARMATHA	Others	St.Antony's college of arts and sciences for women, Thamaraipadi, Dindigul-624005	Tamil Nadu, India.
247	Ms.	P.ABISHA	Research Scholar	Holy Cross College (Autonomous), Nagercoil.	Tamil nadu
248	Mrs.	J. ROSELIN JEYASEELI	Research Scholar	Holy Cross College, Trichy-620002.	Tamilnadu
249	Dr.	K. VINOTH	Assistant Professor	Department of Physics, School of Arts & Science, PRIST Deemed to be University, Vallam, Thanjavur- 613403	India
250	Ms.	SHILPA KUMARI	Research Scholar	Sharda University, Greater Noida- 201301	Haryana, Uttar Pradesh
251	Ms.	A.JASMINE CHRISTILLA	PG Student	St.joseph college (Autonomous), Trichy.	Tamil Nadu
252	Ms.	G. KARPAGAKALYAANI	Research Scholar	Rani Anna Government College for women, Tirunelveli.	TamilNadu, India
253	Ms.	S. ANNE KAVITHA	Research Scholar	Holy Cross College, Nagercoil	Tamil Nadu, India
254	Mr.	BALAMURUGAN S	PG Student	St. JOSEPH'S COLLEGE (Autonomous)	TAMILNADU
255	Mrs.	B RAJITHA	Assistant Professor	SPMVV,Tirupati	Andhra Pradesh
256	Mrs.	P. PENILA SAMINY	Research Scholar	Holy Cross College (Autonomous), Nagercoil - 4.	Tamilnadu, India
257	Dr.	D. PRAKASH	Assistant Professor	Hindusthan Institute of Technology, Coimbatore	Tamilnadu, India
258	Mr.	M.GNANENDRA REDDY	Assistant Professor	Sri venkateswara college of engineering and technology autonomous chittor	Andhra Pradesh
259	Mr.	Vishwakarma Alok Shivprasad	PG Student	Central University of Tamil Nadu, Trivarur-610001	Uttar Pradesh
260	Mr.	DEVENDER JALANDHARA	Research Scholar	Maharshi Dayanand Sarswati University Ajmer Rajasthan	Rajasthan
		K VINOTH	Assistant Professor	JJ College of Engineering and Technology	Tamil Nadu
261	Mr.	K VINOTH	Assistant Fibressur	100 College of Engineering and Technology	I allilli Ivauu

263	Mr.	A.JOSHUA PRINCE NIRMAL	PG Student	St.joseph's college	Tamilnadu,india
264	Mr.	S.ANBUKARUPPUCHAMY	Research Scholar	Government arts college for men, nandanam, chennai	Tamilnadu, India
265	Ms.	K.ABHINAYA	PG Student	P.B SIDDARTHA COLLEGE ARTS &SCIENCE	Andhrapradesh
266	Dr.	C.HARIHARAN	Assistant Professor	Jamal Mohamed College (Autonomous), Trichy -620020	Tamilnadu, India
267	Dr.	A ARULMOZHI	Assistant Professor	St Joseph's College of Engineering Chennai 119	Tamil Nadu
268	Dr.	Dr. RESMI K S	Assistant Professor	GKM College of engineering and technology , Tambaram Chennai 600063	Tamil Nadu, India
269	Mr.	CHOB SINGH	Research Scholar	IIT Madras	Uttar Pradesh, India
270	Dr.	A.ARUNKUMAR	Assistant Professor	Dhanalakshmi Srinivasan Engineering College (Autonomous), Perambalur-621212	Tamilnadu
271	Ms.	ARUBIYA J	Research Scholar	Pioneer Kumaraswamy College, Nagercoil	Tamilnadu, India
272	Ms.	Arya S Raj	Research Scholar	Arya S Raj	TAMIL NADU
273	Ms.	N.F.FEMI FREDERIC	Research Scholar	NESAMONY MEMORIAL CHRISTIAN COLLEGE, MARTHADAM.	TAMILNADU
274	Dr.	N. MUNIYAPPAN	Assistant Professor	Saraswati Narayanan College, Madurai -625022	Tamil Nadu, India
275	Mr.	P. ALBERT	Research Scholar	Madurai Kamaraj University, Palkalai Nagar, Madurai-625021.	Tamilnadu, India
276	Mr.	pramodhkumar bandreddi	PG Student	pramodhkumar bandreddi	ANDHRA PRADESH
277	Dr.	M. AUGUSTIN	Assistant Professor	St. Joseph's College (Autonomous), Trichy - 620002	Tamilnadu, India
278	Dr.	BISWAJIT PATI	Assistant Professor	J. K. B. K. Government College, Cuttack - 753003	Odisha, India
279	Mr.	Mr N MEERA MOHIDEEN	Assistant Professor	MOHAMED SATHAK ENGINEERING COLLEGE	TAMILNADU, INDIA
280	Ms.	K. KARPAGAVALLI	Research Scholar	Rani Anna Government college for Women, Tirunelveli-627008.	Tamilnadu, India.
281	Mr.	JEEVAGAN K	Research Scholar	SRM Insistitue of science and technology -vadapalani campus Chennai	Tamil Nadu, India
282	Ms.	J. V. JAYACHITHRA	Research Scholar	S. T. HINDU COLLEGE, NAGERCOIL - 629002	TAMILNADU, INDIA
283	Mr.	MUSUNURU G V SANKARACHARYULU	Assistant Professor	MAHATMA GANDHI GOVT ARTS COLLEGE, MAHE(U.T)PY	PONDICHERRY, INDIA
284	Mr.	SANTHOSH VINCENT K	PG Student	ALAGAPPA UNIVERSITY KARAIKUDI	TAMILNADU
285	Mrs.	V.KIRTHIKA	Research Scholar	Madurai Kamaraj University	Tamilnadu
286	Ms.	D.JHANSI	PG Student	PB Sidhartha college arts and science	Andhra Pradesh,india
287	Ms.	A.N.L.SAVITHRI	PG Student	Pb Siddhartha college arts and science	Andhra Pradesh,India
288	Dr.	G.SAMUEL	Assistant Professor	St.Joseph's College, Trichy-02	Tamilnadu
289	Mr.	MANISH KUMAR SINGH	Research Scholar	Birla Institute of Technology, Mesra, Ranchi, Jharkhand	Jharkhand
290	Mr.	C. DHANAPAL	PG Student	Muthayammal college of arts and science (Autonomous), Rasipuram-637408	Tamilnadu
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292	Mr.	Loganathan M	Research Scholar	Sri Siva Subramaniya Nadar College of Engineering, Chennai - 603110	Tamilnadu
293	Ms.	Gajjala. Annapurna swarajya lakshmi	PG Student	Pb siddartha arts&science college, vijayawada	Andhrapradesh, India
294	Mr.	JENISH S . L.	Research Scholar	Arul Anandar College (Autonomous)	Tamil Nadu
295	Dr.	Dr.S.Senthil Kumar	Associate Professor	Shree Sathyam college of Engineering and Technology sankari Salem.	Tamil Nadu
296	Ms.	V. SHARMILA LAKSHMI	PG Student	St. Joseph's College (Autonomous)	Tamilnadu, India
297	Mrs.	S.CHITHRA	Assistant Professor	Vivekanandha College of Arts and Sciences for Women	Tamil Nadu
298	Dr.	S. ANANDHI	Assistant Professor	Sathyabama Institute of Science and Technology	Tamilnadu, India
299	Mr.	P.UDAY SANKAR	PG Student	Pb siddhartha College arts and science	Andhra Pradesh, india
300	Mr.	Naveen Kumar S	PG Student	AC Tech, Anna University-600025	Tamil Nadu
301	Ms.	S.ANJAL QUEEN	Research Scholar	Mother Teresa Womens University,Kodaiknal	Tamilnadu,India
302	Ms.	ANTONY ANANIYA	Assistant Professor	KGiSL Institute of Technology -Coimbatore	TAMIL NADU
303		Dudla.Ajitha	PG Student	PB siddartha college of arts and sciences	Andhra Pradesh
304	Mr.	A. DAVID RICHETSON	PG Student	St. Joseph's College (Autonomous), Trichy- 620002	Tamil Nadu, India
305	Ms.	F. VIRGINIA	Research Scholar	Holy Cross College (Autonomous), Trichy.	Tamilnadu, India
306	Mrs.	A.V.GAYATHRI	Research Scholar	Holycross college (Autonomous), Nagercoil -629004	Tamilnadu, India
307	Dr.	PIUS AUGUSTINE	Assistant Professor	Sacred Heart College (Autonomous), Theyara, Kochi	Kerala, India
308	Dr.	M. MAHALAKSHMI	Assistant Professor	Sri Meenakshi Government Arts College For Women (A), Madurai	Tamilnadu, India
309	Mrs.	A.MARY GEORGE SHEMONA	Research Scholar	Pope's college (Autonomous) ,sawyerpuram	Tamilnadu, India
310	Ms.	R.HEMALATHA	PG Student	Kongu Engineering College, Perundurai-Erode	Tamilnadu, india
311	Mr.	RAKESH KUMAR	Assistant Professor	K.L.P. COLLEGE REWARI -123401	Haryana
312	Mr.	SIVAGURUSUNDAR R	Research Scholar	Manonmaniam Sundaranar University , Tirunelveli	Tamilnadu, India
313	Dr.	SURESH KUMAR PUROHIT	Assistant Professor	Engineering College Bikaner, Bikaner	Rajasthan
314	Mr.	NAVEEN. S	Others	Shree Sathyam College of Engineering, Sankari	Tamilnadu, India
315	Mrs.	Jayaprakash.R	1	5/110,Gandhi nagar,veppadai,	Namakkal
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316	Ms.	G. RAMYA	Others	Sasurie College of Education, Tiruppur	Tamilnadu, India
317	Dr.	M.JOHNSI	Post Doctoral Fellow	ANNA UNIVERSITY	Tamil nadu
318	Ms.	N.L. SHEEBA	Research Scholar	Sri Paramakalyani College, Alwarkurichi - 627 412	Tamil Nadu, India
319	Mrs.	P. Praveena	Assistant Professor	Marudhar kesari Jain college for women	Tami nadu
320	Mrs.	B. KRISHNA KUMARI	Research Scholar	Kamaraj College, Thoothukudi	Tamil Nadu
321	Mrs.	CHANDRAREKHA.M	Assistant Professor	Thiagarajar college, teppakulam, madurai	Tamilnadu
322	Dr.	S. SELVAKUMAR	Assistant Professor	St. Joseph's College (Autonomous),Trichy-02.	Tamil Nadu,India
323	Mr.	Rakesh Veerendra kushwaha	Research Scholar	Department of Physics, University of Mumbai -400098	Maharashtra
324	Mrs.	M. ARUL TRESA	Assistant Professor	Infant Jesus College of Arts and Science for Women Mulagumoodu.	Tamil Nadu
325	Prof.	D.JOSEPH JAMES IRUDAYARAJ	Assistant Professor	St Joseph's College (Autonomous), Trichy - 620 002.	Tamilnadu, India
326	Dr.	M.LAWRENCE	Assistant Professor	st.joseph's College (Autonomous)	Tamil Nadu
327	Dr.	J.ANITA LETT	Assistant Professor	Sathyabama Institute of Science and Technology	Tamil Nadu
328	Dr.	T.SRINIVASAN	Assistant Professor	PPG INSTITUTE OF TECHNOLOGY	Tamilnadu,India
329	Mr.	K. MATHIYAZHAGAN	PG Student	Muthayammal College of Arts and Science (Autonomous), Rasipuram - 637 408.	Tamil Nadu
330	Ms.	JEYAPRABHA	Research Scholar	Alagappa University	Tamilnadu, India
331	Mrs.	G.Jeya Jothi	Research Scholar	Mother Teresa women's University Kodaikanal	Tamil nadu

Webinar Series on

Materials for Energy and Environment (WSMEE 22 - 23) - Event 4

Report

The Department of Physics, St. Joseph's College (Autonomous). Tiruchirappalli initiated and organized a webinar Series on the theme "Materials for Energy and Environment" with the objective to inculcate scientific knowledge among postgraduate students, research scholars, and young faculties. The fourth event of the webinar series is conducted on the topic entitled "Advancements in Graphene based 2D Materials" on 30-01-2023 at 03.00 pm to 04.30 pm through hybrid mode (online and offline).

The resource person for the webinar was Dr. V. GUNASEKARAN, Assistant Professor & JSPS Fellow, Department of Materials Sciences, School of Technology, CUTN, Thiruvarur, Tamil Nadu. The program started with a silent prayer and followed by an opening remark delivered by Dr. H. Joy Prabu, Assistant Professor of Physics. Dr. J. CHARLES Assistant professor of Physics welcomed the resource person and moderated the session.

The resource person Dr. V. GUNASEKARAN, elucidated the following points

- Introduction and history of Graphene and Graphene based applications.
- Importance of graphene and how it is applied in different areas of technology.
- Consumer applications of Graphene and it's soon realization.
- Graphene based solar photo voltaic cells and how it can be used to store and reuse energy.
- Graphene based supercapacitors and how different supercapacitors of various types such as hybrid and pseudo can be constructed by using graphene.
- Why graphene is used and how it enhances the features of conventional supercapacitors.
- Graphene in water purification: How it is used to remove heavy metals and contaminants by using absorption mechanism.
- Preparation of Graphene: Top down & Bottom Up approach.
- Future applications of graphene including Bio-Engineering, Ultrafiltration,
 Photovoltaics etc.
- Discussion on graphene in Na ion batteries, Solubility and Graphene
 Nanostructures in FTIR studies and more

The session ended with a round of discussion. Finally, Dr. H. Joy Prabu, Assistant Professor of Department of Physics, expressed his gratitude towards the Management, Resource person, Participants, and Teaching and Non-teaching staff members. 331 participants across the country attended the webinar.

HEAD. DEPT. OF PHYSICS
St. JOSEPH'S COLLEGE
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TIRUCHIRAPPALLI - 2



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Organizes a

Workshop on Computational Physics Experiments (PG Students / Faculty)



06th March 2023



9:00 am - 4:00pm (IST)



KP Joseph Hall



About the Workshop

This workshop aims to provide a forum for PG Physics Students to be enlightened on Computational Physics especially using PYTHON

Workshop Focusses on

Computational physics is the study of scientific problems using computational methods.

The numerical techniques from mathematics like

- Interpolation & Model fitting
- Derivatives & Integrals
- Differential equations
- Eigenvalue problems
- Monte Carlo methods

are used to solve problems from all areas of physics.

Some examples are

 Calculating the magnetic field of a charged wire (integrals & derivatives)

- Chaos & the butterfly effect (differential equations)
- Heat propagation in a sample (differential equations)
- Simulating (and navigating) a spaceship interacting with sun, earth and moon (differential equations)
- The strange behavior of coupled oscillators (Eigenvalue problems, Fourier analysis & fitting procedure)
- Ferromagnets & Antiferromagnets (Monte Carlo methods)
- · Special properties of graphene
- Electronic oscillators
- Mechanics
- Quantum mechanics

Python will be used in this workshop.

Convenor

Course Coordinator

Technical Support

Dr. N. Ravi

Dr. B. Kanikairaj

Dr. H. Joy Prabu, Prof. G. Novin Senetra Roy

Course Incharges

Dr. A. J. Clement Lourduraj, Dr. S. Lourduraj, Dr. A. Maggie Dayana, Dr. M. Lawrence

Requirements: Participants are requested to bring their Laptop for hands on training

Free Registration (2 or 3 PG Students/Faculty of Physics from each Institution can register) Lunch and E - Certificate will be provided for all Participants

Registration link: https://forms.gle/HbnfkbZSmFbE321i6

Deadline : 04th March 2023 by Noon or

Scan the



DEPARTMENT OF PHYSICS, ST. JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI.

Report on Workshop on Computational Physics Experiments for PG/Faculty

The Department of Physics, St. Joseph's College organized a Workshop on Computational Physics Experiments for PG physics students and Faculties on 06-3-2023, 9:00 am at Rev. Fr. K.P. J Hall. The workshop on Computational Physics Experiments using Python inaugurated by Rev.Dr. Arockiasamy Xavier, Principal, St. Joseph's College, Tiruchirappalli. Dr. S. Lourduraj, Assistant Professor & Coordinator of Physics Shift-II, welcomed the gathering, Dr. N. Ravi, Head Department of Physics, felicitate the gathering and Dr.B.Kanickairaj, Associate Professor & Head Department of Electronics briefed about the dynamics of workshop. The first session was briefed by the resource person Dr. Dr. B. Kanickairaj and he introduced the basics of Python programming and computation on physics experiment. The workshop focused on interpolation & model fitting, Derivatives & integrals, Differential equations, Eigen value problems.He explained from the basics and programming the python.

He also explained the introduction of Python and its applications, where it is applicable? and also he explained the Thonny python IDE: how to download and how to install in location. He also helped to solved all the quarries asked by the students regarding installing python in their laptop.

He highlighted the advantages of Python over than other programming languages. He explained the differences between compiler type and interpreter type and object oriented programming language, how to get variable window, shell structure. It was quite interested. He also explained the advantages of Thonny over the python 3.11.2 platform. From Thonny Python IDE, he explained many programmes based on physics problems. Students eagerly completed all the programmes and showed their outputs. He started the training with simple programs, he explained about How to write program for addition subtraction, multiplication, division.... How to type in editor window, how was the output, how to get it in shell window. Students tried very well. All the students showed their outputs immediately. They changed the values from the programs and interpret their result with the modified programs.

After the Tea break, the second session was dealt with the programs with # To make single line in a statement, ## How we can use numbers in python, meaning of the symbols used in programming in Python such as \,\\,\n,\r,\t,\b,\ooo,\nh.etc.

He also explained the topics List, Tuple, Set, and how they are important in the operators. He demonstrated the many programs in List, Tuple, and Set. Student's eagerly participated and shown their output. The Professors those who participated in the workshop also came with their laptop and refreshed

their knowledge in this field. The participants attend the workshop and got the hands-on experience with their own laptop.

After the Lunch break, the next session was started and the professor demonstrated the graphical representation and analysis. In related to this, the program related to the ploting the graphs in 2D and its types such as b-blue,g-green,r-red, c-cyan,m-magenta, y-yellow, k-black, and w-white. He explained how to assign the colours to the data points through the program. He also motivated the students about the job opportunities in this field and motivated the student's interest in their own research ideas with this python knowledge.

Around 119 participants (students and faculties) attended the programme. Students were really benefitted from the knowledge and doubts applying the programs. It was a really informative and highly interactive session. He explained how this programming language is used in quantum mechanics; mathematical physics hoe to solve ODE, differential equations, integrals etc.

He also insisted the students about their experimental results from the lab with the software tools in the lab experiments, Fermi energy of copper, LED, sensor study w.r.t load what will be the output voltage, convert the values into excel form, and get the file from csv program and how to get graph. He explained all the things very well. It was an interactive session. Students are highly motivated by the program.

The workshop came to end at 05:30 pm with the words of thanks by Prof. G. Novin Senetra roy. The entire program the faculty members were accompanied with the students

Dr. B. KANICKAIRAJ

Resource Person&Associate Professor
Department of Physics

Dr.N. RAVI

Head of the Department of Physics

HEAD. DEPT. OF PHYSICS St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 2

WORKSHOP ON COMPUTATIONAL PHYSICS EXPERIMENTS

Date: 06th March 2023

Time: 09:00 am - 04:00 pm

Venue: Rev. Fr. KPJ Hall



Inauguration of Workshop



Keynote address by Dr. B. Kanickairaj



Felicitation address by Principal



Student Participants

WORKSHOP ON COMPUTATIONAL PHYSICS EXPERIMENTS

Date: 06th March 2023

Tiruchirappalli, Tamil Nadu, India

Tamil Nadu 620002, India

06/03/23 10:08 AM GMT +05:30

Lat 10.828444°

Long 78.690516°

Time: 09:00 am - 04:00 pm

GPS Map Camera





DEPT OF BIOTECHNOLOGY, College Rd, Annamalai Nagar, Woraiyur, Tiruchirappalli,



Venue: Rev. Fr. K P J Hall





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Phone: 0431 - 4226438, 2700320, Fax: 0431 - 2701501 Website: www.sjctni.edu

Workshop on Computational Physics Experiments (PG Students / Faculty) ATTENDANCE SHEET

S. No	Reg. No.	Name	Signature
1	22 PPH 101	J. John Paul	5 mpul.
2	22 PPH 102	M. Adithiyan	6.949
3	22 PPH 103	A INFANT SAMUEL	A. Frankas
4	22 PPH 104	ANISH ANITIN PJ	P. J. Sinhahat
5	22 PPH 105	Josline Nisha.B	Forline Neihe.
6	22 PP H 106	B. Delphine	B. Dolphin
7	22 PPH107	A. J. YOMESH AMALAN	A. J. Amly
8	22 PPH 108	J. Psaac Emmenuel	
9	22 PPH 109	Giztus Thomas Philomine F	A -
10	22 PPH 110	Tixamer Jerlin Ahshaya:	du -
• 11	22 PPH 111	B.S. AUSTLIN	B.S. With
12_	22 PPH112	JAYARAM. K.	K. Jayoram.
13	22 PPH113	GOKUL.&	OF, Gohl
14	22 PPH115	M. Smalle princy	Monigning.
15	22 PPH117	Barath M.J.	M.J.B.th
16	22 PPH118	Jerlin Xaviour .x	Jedin Stain
17	22 PPH120	G. Naneen	Ginle.
18	22PPH122	Yousmin Monica. A	Don't Mai - A
19	22PPH125	Helen. R	heles.R.
20	22 PPH 126	B. RAJA SEKAR	Raja. B,
21	22 PPH 128	Ancy.M	Amy J.
22	22 PP H 129	J. Snowban	& SI



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S. No	Reg. No.	Name	Signature
23.	22PPH840	Growthaman. S.	a strike
24	22PPH819	Thomarai Solewan e J	This lund
25.	22PPH832	JEFFILA DNFANCIA ROY. O	Carried S
26	22PPH836	Linda Sheeley. A	d'Serda Etherley.
27.	22PPH82-T	Kasunya Alphonsa . S	Larry or Afrhonson S.
28.	22PPH811	J. Terlinvaishali	Lary Afrhonson S.
29	22PPH833	Dedica Infanta. A	DP-TPP-A
30	22 PPH 80b	Sheeba fluorencia. A	8 hufa fhuli-A
31.	22PPH823	Irin Aaksana, A.I.N.	Trimalgrana
32.	21PPH 804	P. Mexline Asha	P. Mexhouallo
33	210014807	1. Raveen Monica	Last.
34	21PPH809	R. Nancy Benedicta	Dancey.
35	21PPH820	A. Jasmine Christilla	Afamine.
36	21PPH814	Gr. Linda Vinnarasi	Gr. Le
37	21PPH831	A. Srikavi	A-Sihi
38	21PPH837	8. Sophya joy V. Saranya.	sophyagoy
39	21 PPH841	V. Saranya.	Sarranga
40.	21PPH808	J. Maglant Kajol.	J.Maglant,
41.	21PPH824	B. Argelin.	B. Angelin.
42.	21PPH840	V. Shannila Lakshmi	V. Sharmilalakshni
43.	21PPH839	M. Divyashree	H. Divyache
44	21 PP H 8 06	Kiswetha	Smf R.



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Workshop on Computational Physics Experiments (PG Students / Faculty)

ATTENDANCE SHEET

S. No	Reg. No.	Name	Signature
1.	21PPHID2	SNDWLIN.V	Showlin.V
2	21PPH103	E. Inigo Valan	E. Tiple
3	21PPH104	X. ANTONY BOSE	X. Anthe?
4.	21PPH105	J-Jackson	Jack_
8.	21PPH108	H. SAGIAYA SHINEE	H.81.
6.	21PPH112	M.A. Godwin Ray E. Jerome Jegan Raj	leates Roj Hira
7	21PPH114	E. Jerome Jegan Raj	8.2711£
8	21PPH115	R. Vijai Krishnan	R. Vijsikright
9	21PPH116	PRASHANTH. J	J. Praylot
10	21PPH119	JENCY NIVERAS	Snivena.
• 11	21994120	STEEVE SHINY G	Seems .
12	21 PPH121	ANTOCHRISTOPHER . P	F. Souty.
13	2 UPPH122	Aarkr. A	s. Any
14	21PPH123	8HATHIKA . S	Suy.
15.	21PPH124	ANTONY JEYA MONIKA.S	S. Moniba
16.	21774125	MEGADIN ROHITH. A	A. My/Resh.
17.	21PPH 126	CHARLI EDISON . P	P. cheerli sesson
18.	21PPH129	PRASANNA VENKATESH S	S. For
19.	21PPH127	JOE PUSHBA SHINI J	Ja Firshk Shini J
20.	21PPH128	P. HARINI	De.
21.	21PPH131	S. ASHVITHA KIRUBA	L. As
22 .	22PPH106	B. Delphine	B. Polphin



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Workshop on Computational Physics Experiments (PG Students / Faculty) ATTENDANCE SHEET

S. No	Reg. No.	Name	Signature
23	22PPH130	L. PATRICK IMMANUEL	1. Parbrick
24	22 PPH 132	J. HELEENA	7. Holma.
25	22 PP H 133	SRI JANANI. K	L'Sofanoni.
26	22 PPH127	THARANCIA TEENA MARY.J	Jithat.
27	21PPH113	8. Karjyonasan	Gogung.
28	21PPH110	Rommal - F. Kennedy	Romel
29	21PPH106	MAHITH SARMA.T.K	Maly.
30		Pr. A.J. CLEMENT LOURDURAS	Allemes
31.		DT. A. ALEXANDAR	AROS '
32,		B. Mary Dayong	B.M. Joly
33.	21PPH833	R. VITAYAN	D. Dipy
34,	21PPH 826	A. Joshua Prince Nieunal	N. Joshua
35.	21PPH838	W. Roshan Lourdusamy	w. Poshy?
36.	21PPH81b	Ashin R. Lanfo	Lange
37.	21 PPH821	N. Haribharath	N. Hystoma Al
38.	22PPH826	N. Ajith Kumar	Alp
31.	22PPH821	R. SELVA PRAKASh	Rhelia Brukush
40	02PPH841	3.5181 SELVAN	X-Silixelvan
41	22PPH805	YOSHWA VIMALAN AJ	Did fund. E. D.
42	22PPH838	KAVIYARASU P	P. Hy
43	22 PPH 812	KESAVAN · M	pesavau
44	22PPH809	KAVIYARHSU .S	hum -



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Workshop on Computational Physics Experiments (PG Students / Faculty)

ATTENDANCE SHEET

S. No	Reg. No.	Name	Signature
1	2&PPH 831	Hanishwaran.V	(V./L)
2	22PPH835	S. DHARMARAJ	d. ghyj,
3	21PPH803	J. Warshall	J. Moosle
4	21PPH801	S. Verjo je suraj	Loaga
5	21PPH822	P. Celestine Amalan	P. alter Amalan.
6-	21PPH811	J. THOMSON	Struct.
7.	21PPH832	N. S. Sathya Warsyanan	Sather
8.	21PPH 825	K. Jeeva Ratchagan	Jean Robby
9.	21PPH805	S.V. MANNELAN	Soundon L
10	21PPH819	B. Ranjith Kumar	B. Rough King.
TI.	21PPH 836	S. Bala Muragan.	S.Bull
12.	21PPH818	A. Bala Murugain.	A. Balant
13.	21ppH823.	M. Arockinja Victor	Amil:
14	21PPH 810	M. VISHNUPRIYAN	M. Kishfrigar N. Kirkanett
15	SIPPH821	10 H Deribharath	10. Autout
16	21PPH816	Ashin R. Lampo	Lango
17.	21PPH838	w. Roshan Louridusamy	w Lords
18-	21PPH826	A. Joshua Pource Nieural	A. Joshua
19.	21PPH233	R. VIJAYADI	
20	22PPH810	K. Karthick	Kentheel ok
21	22PPH 815	Jeshan's Merald. I	Jests/
962	22PPH839	Wowenkumal_M	- Canyfry



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S. No	Reg. No.	Name	Signature
23,	22PPH830	D-Visva	D. Vyy.
24-		F. Celin Hemalatta ?	
		Asst. Prof. of Physicis.	
25.	-	G.GENTFER STLVENA	
		Asst. Prof. of Physics	h. hench
26.	-	S. LOURDURAT	
			Standy
27	_	P. Adalarasu.	.60 - 6
6		Asst. Professor of physics)	10/. 3hr
98	-	S. SELVAKUMAR	Plas
		Asst. Prof. of Physics	A Joseph
		GINDVIN SENETRA ROY	G. Leving Shape
30	19CPH53 22PPH801	Assit Rugessor, Physics, SJC Kichandry	J. Marin 8/19
31	22PPH807	MARIA JOE ANTONY. 8J	Maris 2 atons. II.