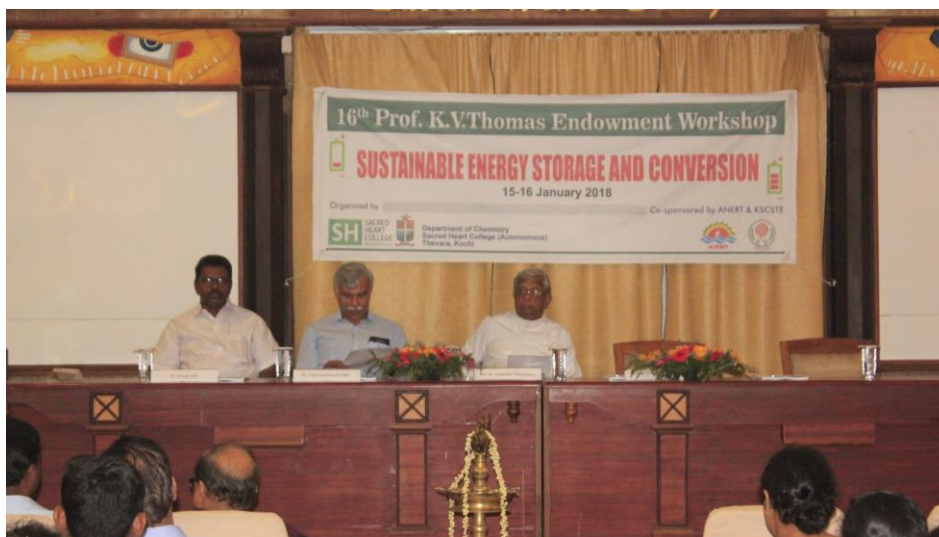


### Seminar on Sustainable Energy Storage and Conversion

Title:	Seminar on Sustainable Energy Storage and Conversion
Date:	15-16 January 2018
Venue:	Fr. Melesius Hall, S H College, Thevara
Focus of the Event:	Skills Development, Research Methodology
Organizing Body:	Department of Chemistry
Resource Person:	Dr. Vijayamohanan K. Pillai (Director, CSIR-CECRI), Dr. Anil Verma (IIT Delhi), Dr. Suraj Soman (DST-Inspire Faculty, NIIST, Thiruvananthapuram)
Total Number of Attendees:	63



#### *Event Report*

The Department of Chemistry, Sacred Heart College, Thevara in association with Prof. K.V. Thomas Endowment Trust, Agency for Non-conventional Energy and Rural Technology (ANERT) and Kerala State Council for Science, Technology and Environment (KSCSTE) organized a two-day workshop on “Sustainable Energy Storage and Conversion”. The workshop was conducted on 15<sup>th</sup> (Monday) and 16<sup>th</sup> (Tuesday) January, 2018. The objective of this workshop was to provide a forum for experts, researchers and students to discuss the recent advances in fuel cells, solar energy conversion devices, energy storage devices such as batteries and super capacitors and the impact of functional/nanomaterials on energy conversion and storage efficiencies. It also aimed at



### **Criterion 3: Research, Innovations and Extension**

helping the post-graduate students to narrow-down their research interests in to the vast and intriguing fields of energy storage and conversion.

On the first day (15 January, 2018), the registration formalities started at the registration desk from 9:00 am onwards. The keynote speaker Dr. Vijayamohan K. Pillai, Director, CSIR-CECRI, Karaikudi, talked on the topic “Electrochemical Energy Storage: Sustainable options for the future using engineered carbon”, introducing the conference topic. The first session of the workshop was handled by Dr. Vijayamohan K Pillai on the topic “What is Super About Super Capacitors?” The post lunch session was on the topic “Rechargeable Batteries: Materials, Technologies and Recent Trends” by Dr. M. M. Shaijumon, IISER, Thiruvananthapuram.

The second day (16 January, 2018-Tuesday) was devoted to energy conversion systems. The first speaker Dr. Anil Verma from IIT Delhi delivered his presentation on the topic “Fundamentals of Electrochemical Storage and Conversion Devices: Fuel cells and Redox Flow Batteries”. The post-lunch session was handled by Dr. Suraj Soman, DST-Inspire Faculty, NIIST, Thiruvananthapuram. His presentation was on “Solar Photovoltaics: Fundamentals and Emerging Trends”. The workshop formally came to an end by 4.30 pm. All the participants were provided with the certificates duly signed by the Director of Collegiate Education, Fr. Principal and the Head of the Department.



**Criterion 3: Research, Innovations and Extension**

*Additional Pictures*





**Criterion 3: Research, Innovations and Extension**

*Event Brochure*

**Organising Committee**

1. Fr. Dr. Augustine Thattakkara CMI, Manager (Patron)
2. Fr. Dr. Prasant Palackappillil CMI, Principal (Chairman)
3. Fr. Dr. Jose John Thuravackal CMI, Vice Principal
4. Dr. Joseph John (General Convener)
5. Dr. K B Jose
6. Dr. Joseph T Moolayil
7. Dr. Thommarchan Xavier
8. Dr. V S Sebastian
9. Dr. M George
10. Dr. Jorphin Joseph (Co-ordinator)
11. Dr. Franklin J
12. Dr. Jinu George
13. Dr. Grace Thomas
14. Dr. Ignatious Abraham
15. Mr. Midhun Dominic C D
16. Mr. Senju Devassykutty
17. Ms. June Cyriac
18. Dr. Ramakrishnan S
19. Dr. Abi T G
20. Ms. Ragi A.S

**Registration fee**

Students/ Research Scholars : Rs.100/-

Faculty : Rs.200/-

Delegates from industry : Rs.300/-

Space is limited to approximately 100 participants: early registration is advised.

**SACRED HEART COLLEGE**  
Autonomous

The Department of Chemistry, Sacred Heart College, Thevara, Kochi invites you to the National Workshop on

## SUSTAINABLE ENERGY STORAGE AND CONVERSION

**16<sup>th</sup> Prof. K.V. Thomas Endowment Workshop**

**DAY 1**  
ELECTROCHEMISTRY & ENERGY STORAGE

ELECTROCHEMICAL SUPER CAPACITORS

RECHARGEABLE BATTERIES

**DAY 2**  
ENERGY CONVERSION

FUEL CELLS

SOLAR CELLS

Learn how batteries, fuel cells, solar cells, and super capacitors work, how to improve their performance, what are the material challenges behind these technologies, & how they are key in the world of renewable energy

**Fr. Melesius Hall**  
Sacred Heart College (Autonomous)  
Thevara, Kochi, Kerala  
January 15 - 16, 2018  
9AM - 4PM

All correspondence shall be addressed to:  
Dr. Jorphin Joseph (Co-ordinator)  
Department of Chemistry, Sacred Heart College (Autonomous), Thevara - 682 013  
Tel: 0484 - 2663380; Mobile: 9495283270  
Email: [jorphin@shcollege.ac.in](mailto:jorphin@shcollege.ac.in)



**Criterion 3: Research, Innovations and Extension**

*Event Attendance Sheet*

LIST OF PARTICIPANTS			
Name of the Class: I, II and III Year Students			
Name of the Department: Dept. of Chemistry			
Date: 15 - 16 January 2018			
Name of the Programme: Sustainable Energy Storage and Conservation			
Sl No	Class No	Name of the Student	Attendance
1	17UCHE701	ANJALY RAJAN	Anjaly
2	17UCHE702	S ADHEERTH	Adheerth
3	17UCHE703	ARYA PRADEEP	Arya
4	17UCHE704	SYAMA ANIL	Syama
5	17UCHE705	GOPIKA G	Gopika
6	17UCHE706	ANJALA PIUS	Anjala Pius
7	17UCHE707	AMITHA P. ASOK	Amitha
8	17UCHE708	ANJANA P S	Anjana
9	17UCHE709	SAMANTA SAM	Samanta Sam
10	17UCHE710	ANDRIA VARGHESE	Andria
11	17UCHE711	ANGEL ROSE THOMAS	Angel
12	17UCHE712	HARIKRISHNAN S J	Hari Krishnan
13	17UCHE713	JINKLE THOMAS	Jinkle
14	17UCHE716	GAYATHRI VENUGOPAL	Gayathri
15	17UCHE717	KRISHNAPRIYA P T	Krishnapriya
16	17UCHE718	ALBIN DAVIES	Albin
17	17UCHE719	ELZA MARIA CYRIL	Elza Maria
18	17UCHE720	SAIRA MINNU SUNIL	Saira
19	17UCHE721	JULIE JOHNY	Julie
20	17UCHE722	AINA FATHIMA A	Aina
21	17UCHE724	ELIZABETH SAJI	Elizabeth Saji
22	17UCHE725	JERI JOSE	Jeri
23	17UCHE726	ANEETA JOSE P	Aneeta
24	17UCHE727	HRISHIKES A	Hrishikes
25	17UCHE730	ANJALI.A	Anjali
26	17UCHE731	SARA ROSE MATHEW	Sara



**Criterion 3: Research, Innovations and Extension**

27	17UCHE732	DIYA ANN SABU	Diya
28	17UCHE734	VARSHA VARGHESE	Varsha
29	17UCHE735	SOMITHA MATHEW	Somitha M
30	17UCHE736	STAICY K T	Stacey
31	17UCHE738	SIJO JOSE	Sijo
32	17UCHE739	MALAVIKA MOHAN K	Malavika
33	17UCHE740	APARNA P C	Aparna
34	17UCHE741	CHRISTEENA SABIN	Christeena
35	17UCHE742	ANN MARIA PRASAD	Ann Maria
36	17UCHE743	ARUN KRISHNA K.V	Arun
37	17UCHE745	YADHUKRISHNA K. C.	Yaduk
38	17UCHE746	GOUTHAM K	Gautham
39	17UCHE747	NITHEESH KUMAR K S	Nitheesh
40	17UCHE748	NISHANA PARVEEN M I	Nishana
41	17UCHE749	SANJAY BINEESH	Sanjay
42	17UCHE751	ANUPRIYA BABU	Anupriya
43	17UCHE753	RAHUL SATHEESH	Rahul
44	17UCHE755	NEELIMA MOHAN	Neelima
45	17UCHE756	HARISANTH K A	Harisanth
46	17UCHE757	SANDRA THERESE XAVIER	Sandra
47	16UCHE4601	SHILPA K.PAI	Shilpa
48	16UCHE4602	MERIN JAMES KOOTTUNGAL	Merin
49	16UCHE4603	MARIYA MATHEW	Mariya
50	16UCHE4604	ANUMOL THOMAS	Anumol Thomas
51	16UCHE4605	ASWATHY BABU	Aswathy
52	16UCHE4606	ANITTA MARIA SHIBU	Anitta Maria
53	16UCHE4607	SWETHA SARA SABU	Swetha
54	16UCHE4608	ATHIRA BINU	Athira
55	16UCHE4609	ANNETTE PAUL	Annette
56	16UCHE4611	RESHMA K R	Reshma
57	16UCHE4612	ANJALY RAJEEV	Anjaly
58	16UCHE4613	HANNA ELIZABETH JOY	Hanna Elizabeth
59	16UCHE4614	SOBHA MARY VARGHESE	Sobha
60	16UCHE4615	SANDRA SARA JOHN	Sandra

