

## DEPARTMENT OF CHEMISTRY

**Title** : International Seminar on “Recent Trends in Chemistry”

**Date** : 20.09.2017

**Resource Person** : 1. Dr. Durga Prasad Karothu, Post - Doctoral Associate, New York University, Abu Dhabi  
2. Dr. C. Srinivasan, Former Senior Professor & Head, Department of Material Science, School of Chemistry, Madurai Kamaraj University, Madurai  
3. Dr. P. Elumalai, Associate Professor, Centre for Green Energy Technology, Pondicherry University, Pondicherry  
4. Dr. A. Gubendran, Associate Professor, Department of Chemistry, Saraswathi Narayanan College, Perungudi.  
5. Dr. S. Abraham John, Professor & Director, Centre for Nano Science & Technology, Department of Chemistry, Gandhigram Rural University, Gandhigram

**No. of Participants** : 206

**Focus on** : **Entrepreneurship & Skill Development**

**Outcome** :

- Participants learnt about the devices and machines on the molecular scale
- They understood the significant role played by the electro chemical energy storage devices (batteries and super capacitors).
- They realized the need of the hour to be develop efficient, low cost and environmentally benign electrical energy storage devices to address the issues of climatic change and its consequences
- They were briefed about potential applications of molecular crystals in the development of nano scale robots
- The synthesis and direct growth of Gold Nano structures on electrode substrates for electrocatalytic applications were demonstrated.

**FATIMA COLLEGE (AUTONOMOUS)** (*College with Potential for Excellence*)  
(Re- Accredited with 'A' Grade by NAAC)



## **International Seminar on “Recent Trends in Chemistry”**

**Organized by the Department of Chemistry, September 20, 2017**

### **REPORT OF THE INTERNATIONAL SEMINAR**

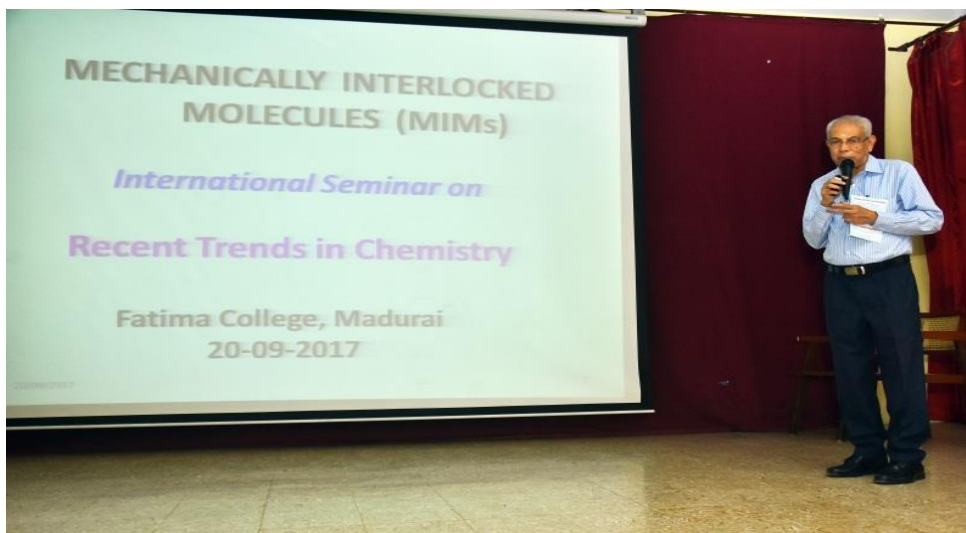
The Department of Chemistry of Fatima College, organized a one-day international seminar on “Recent trends in Chemistry” on 20.09.2017. Rev. Sr. **Dr. M. Francisca Flora**, Secretary, Fatima College, inaugurated the seminar. **Rev. Sr. Dr. G. Celine Sahaya Mary**, Principal, Fatima College, Madurai Felicitated the Seminar. The Head of the Department of Chemistry Dr. S. Selvarani, welcomed the gathering.

### **Inauguration of the Seminar**



**Dr. C. Srinivasan**, Former Senior Professor & Head, Department Of Material Science, School of Chemistry, Madurai Kamaraj University, Madurai, shared his expertise on “Mechanically Interlocked Molecules” (Molecular Level Machines). The bottom-up design, construction, and operation of devices and machines on the molecular scale is a topic of great interest in nanoscience and a fascinating challenge for nanotechnology. He highlighted the

Species made of interlocked molecular components which are most attractive candidates for these purposes.



**Dr. P. Elumalai, Associate Professor, Centre for Green Energy Technology, Pondicherry University, Pondicherry, shared his research experiences on “Chemistry of Nano Materials – Materials to Devices” and he pointed out that the major challenges in energy sectors are to develop efficient, low cost and environmentally benign electrical energy storage devices to address the issues of climatic change and its consequences. He specified that electro chemical energy storage devices (batteries and super capacitors) play important roles as storage devices.**



**Dr. Durga Prasad Karothu, Post - Doctoral Associate, New York University, Abu Dhabi delivered his lecture on “ Smart Materials ”**



**Dr. Durga Prasad Karothu, Post-Doctoral Associate, New York University, Abu Dhabi** delivered **his lecture on “Smart Materials”**. He spoke about molecular crystals that exhibit reversible macroscopic changes in response to external stimuli which are desirable for their potential applications in the development of nano scale robots and also how they could mimic some dynamic processes in living organisms.

Faculty, students and research scholars from various colleges and universities participated and presented their research papers. The session was chaired by Dr. A. Gubendran, Associate Professor, Department of Chemistry, Saraswathi Narayanan College, Perungudi. The Valedictory address was delivered by Dr. S. Abraham John, Professor & Director, Centre for Nano Science & Technology, Department of Chemistry, Gandhigram Rural University, Gandhigram. He highlighted the synthesis and direct growth of Gold Nano structures on electrode substrates for electrocatalytic applications. Finally, Dr. B. Medona, Dean of Academic Affairs (Science), Associate Professor, Department of Chemistry, Fatima College, Madurai delivered the vote of thanks.

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#### ORGANIZING COMMITTEE

Dr. S. Selvarani, M.Sc., Ph.D.(HOD)  
Dr. B. Medona, M.Sc., Ph.D.  
Dr. S. Sukumari, M.Sc., B.Ed., M.Phil., Ph.D., NET.  
Dr. A. Rajeswari, M.Sc., M.Phil., Ph.D.  
Dr. B. Vinosha, M.Sc., M.Phil., Ph.D., SET.  
Dr. B. Suganthana, M.Sc., M.Phil., Ph.D.  
Dr. Sr. J. Arul Mary, M.Sc., M.Phil., Ph.D.  
Mrs. R. M. Nagalakshmi, M.Sc., B.Ed., M.Phil.  
Mrs. M. Priyadharsani, M.Sc., M.Phil., SET.,(Ph.D).  
Mrs. V. Arul Deepa, M.Sc., M.Phil., (Ph.D).  
Mrs. J. Kileyoba Vinnarasi, M.Sc., M.Phil., (Ph.D).

#### CONTACT DETAILS

**Dr. S.Selvarani**

**Convenor**

International Seminar on Recent Trends  
in Chemistry

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#### **FATIMA COLLEGE (AUTONOMOUS)**

*College with Potential for Excellence  
(Re-Accredited with 'A' Grade by NAAC)  
(National Level 27th Rank - NIRF 2017)  
Mary Land, Madurai-18*



**Department of Chemistry  
cordially invites you to the**

*International Seminar on*

#### **RECENT TRENDS IN CHEMISTRY**

*20<sup>th</sup> September - 2017*

**Venue : SANJOSE SEMINAR HALL**

**Fatima College, Madurai - 18**

## PROGRAMME

Registration : 8.30 am

Inauguration : 9.00 am

Lighting the Lamp

Prayer Song

Welcome Address : **Dr. S. Selvarani**

Head & Associate Professor

Department of Chemistry

Fatima College

Madurai

Inaugural Address : **Rev. Sr. Dr. M. Francisca Flora**

Secretary, Fatima College

Madurai

Felicitation : **Rev. Sr. Dr. G. Celine Sahaya Mary**

Principal, Fatima College

Madurai

Keynote Address : 9.15 am – 10.00 am

Topic : **"Mechanically Interlocked Molecules" (Molecular Level Machines)**

**Dr. C. Srinivasan**

Former Senior Professor & Head

Department of Materials Science

Madurai Kamaraj University, Madurai

Tea Break : 10.00 am - 10.15 am

SESSION I : 10.30 am - 11.30 am

Topic : **"Smart Materials"**

**Dr. Durga Prasad Karothu**

Post - Doctoral Associate

New York University

Abu Dhabi

SESSION II : 11.30 am - 12.30 pm

Topic : **"Chemistry of Nanomaterials - Materials to Devices"**

**Dr. P. Elumalai**

Associate Professor

Centre for Green Energy Technology

Pondicherry University

Pondicherry

Lunch : 12.30 pm - 1.30 pm

Paper Presentation : 1.30 pm - 3.30 pm

Chairperson : **Dr. A. Gubendran**

Associate Professor

Saraswathi Narayanan College

Perungudi

Tea Break : 3.30 pm - 3.45 pm

Valediction : 4.00 pm

Valedictory Address : **Dr. S. Abraham John**

Professor & Director

Centre for Nano Science &

Nano Technology

Department of Chemistry

Gandhigram Rural University

Gandhigram

Vote of Thanks : **Dr. B. Medona**

Dean of Science

Associate Professor

Department of Chemistry

Fatima College, Madurai

**NATIONAL ANTHEM**

### List of students participated in the event

1.	AKSHAYA K
2.	ANU RATTHIKA S
3.	AROCKIA AMRISHA T
4.	ASHWINI N S
5.	BALA KEERTHANA C
6.	DIVYA M
7.	ELSI S
8.	GOMATHI K S
9.	HARIHARANI S

10.	JAYA DHARSHNI G
11.	JEBA SANTHIYA A
12.	JENIFER S
13.	JERME SNEHA A
14.	JEYA PREETHA J
15.	JEYASHREE K
16.	JULIET J
17.	KARTHIGA R
18.	LAKSHMI PRIYA A
19.	LAVANYA CHABATTULA
20.	LIPRANCIA MARY P
21.	MANI MEENA B U
22.	MATHUMATHI S
23.	MERCY MAGDALENE P
24.	MERLIN PRINCY A
25.	MERLINE PUNITHA S
26.	MONISHA
27.	NIVETHITHA A
28.	PAVITHRA S
29.	PAVITHRA S
30.	PHILO SEELI S
31.	PRIYANKA K
32.	RAKSHAYA K
33.	RAMA ROHINI B
34.	ROSARY JUANA FERNANDO T
35.	SALETH PRAPA J
36.	SARALA I
37.	SELCIAH M
38.	SIMLA MARY E
39.	SINDHU K
40.	SINDHUJHA S
41.	SIVA DHARSHANI C
42.	SMITHAH LILLY M S
43.	SUBALAKSHMI M
44.	SUMITHRA T
45.	SUSANNA OPPILAL M
46.	SUSHMA M
47.	THERESA DEEPTHI J
48.	AGNES PRADEEPA X
49.	ANITA ROSELINE G
50.	ASHWIN FELICITA A
51.	CHRISTINA A
52.	CHRISTINA SHARMILI M
53.	CHRISTIYA J
54.	DARTHY PUNITHA A

55.	DEBY JOSEPHINE SANTIA J
56.	DEEPIKASHRI J
57.	DEVI P
58.	DHANALAKSHMI T
59.	DHARANI S
60.	DHIVYA M
61.	DIANA DORA J
62.	GAYATHRI DEVI N
63.	GAYATHRI MARIAMMAL M
64.	GIRIJA PRITHVI P
65.	GIRIRAGAVI J
66.	HAJISTHA SITHARAA L
67.	HEMALATHA R
68.	JANARANJANI T
69.	JASMINE MARIA THERAS C R
70.	JENCY A
71.	JENIFER J
72.	KINGSLEY PHILOMI JERINA S
73.	MAHESWARI R
74.	MALA D
75.	MANIMEGALAI R
76.	MERLIN RASHMITHA R
77.	NIVETHA A
78.	NIVETHA R
79.	PATHMA PRIYA P
80.	PRATIBHA S
81.	PREETHI J
82.	PRINCY ANTONIA D
83.	PRIYADHARSHINI K P
84.	PUJA MARY R
85.	RAJA SAMYUKTHA M S
86.	REVATHY S
87.	SABEETHA S
88.	SHARMILA P
89.	SHEIK NILOFER A
90.	SINDHU MONICA M
91.	SOWMIYA M
92.	THARANI R
93.	USHA S
94.	VIMALA A V R
95.	VINCY T
96.	YASOTHAI N
97.	ANBUKARASI L
98.	ANUSIYA J
99.	AROCKIA JERINA J
100.	AROCKIA SELVI M

101.	ARUL PRINCY M
102.	ARUNA PARKAVI A
103.	AUGUSTINE VINSLET A R
104.	BHUVANA G
105.	CAROLIN KANMANI J P
106.	CELESTI SHEEBA J
107.	DEIVANAI M
108.	DEVI A
109.	DHATSHANA N
110.	DIVYA M
111.	HASHNI M
112.	INDHUJA M
113.	IRUTHAYA ANTONY AUXILIYA A
114.	JAMUNA S
115.	JENIFER JOELLA D
116.	JENIFER PREETHI G
117.	JERINE SHYLA J
118.	JEYA C
119.	JOHNCHRISTINA S
120.	KANAGANAGESWARI K
121.	KOKILAVANI C
122.	MAHALAKSHMI D
123.	MALATHI K
124.	MEENAKSHI R
125.	MEENAMBIGAI S
126.	MEHALA T
127.	MERCY SOPHIA J
128.	MUTHUPRIYA C
129.	NAGAJOTHI K
130.	NAGALAKSHMI N
131.	NISHA G
132.	NITHYA M J
133.	NITHYA P
134.	NIVEDHA S T
135.	PANDEESWARI V
136.	POORANA SAHANA AKSHAYA J
137.	POORNA SOUNDRAVALLI B
138.	PRESENCY J
139.	PRIJITHA J
140.	PRIYA P
141.	PRIYANKA P
142.	RENIBA X
143.	SANGEETHA JOICE M
144.	SHANMUGAPRIYA K

145.	SHOBANA B
146.	SIMI LIBORA J
147.	SUBA LAKSHMI S
148.	THIRAVIYA K
149.	USHA RANI P
150.	VAITHEESHWARI V
151.	VANISHRI R
152.	VARALAKSHMI T
153.	VINITHA P
154.	AROCKIA GOWSALYA M
155.	AROCKIYA MEDONAA
156.	ARUNA MEENAKSHI E
157.	BERNICA B
158.	ELIZABETH RANI V
159.	FELICIA B
160.	HEMA P
161.	JOSEPHINE PRIYA T
162.	KRISHNA VENI K
163.	MONICA G
164.	PAP SUBHASHINI N
165.	PORSIYA S
166.	PRINCILAJOTHI T
167.	PRIYA DHARSHINI J
168.	RABECCA G
169.	RESHMA G
170.	SARANYA M
171.	SASIKALA P
172.	SENTHIL KUMARI K
173.	SHARMILA P
174.	SHRI THIVYA M
175.	SOWNDHARYA K
176.	SUBASHINI V S
177.	SUBHASHRI P
178.	THIRUVASUKI L B
179.	VASHIFA YASMIN D
180.	VIJILA VINCY C
181.	YASMIN K
182.	AASHAPRIYADHARSHINI M
183.	ANITHA S R
184.	ARUL MERLIN SEEMA S
185.	ASHAPRIYA S
186.	BHAMUNI M R
187.	CHELLA MEENA S
188.	DELPHIN ELACKIYA X
189.	GANGADEVI M
190.	GAYATHRI M

191.	GNANA TAMIL AZHAHI S
192.	HEMALATHA N
193.	INDHUMATHI A
194.	JAYA KARTHIKA J
195.	JOSHI ABILA MOLA
196.	KASTHURI M
197.	KAYALVIZHI R
198.	LIZY MARY I
199.	LOURDUSNOWSS
200.	MANIMEGALAI M
201.	MANJULA A
202.	PANDEESWARI M
203.	ROHINI M
204.	SIVASANGARI M
205.	TAMILARASI P
206.	VENNILA G