

Interactive Lecture on

Polymer Electronics

23.01.2023

Resource Person

Dr.N.Somanathan

**Rtd Deputy Director &
Head, Polymer Science and Technology Department
Central Leather Institute of Technology
Chennai**

Venue: Seminar hall



**DEPARTMENT OF CHEMISTRY &
RESEARCH CENTER
POPE'S COLLEGE (AUTONOMOUS)
SAWYERPURAM-628 251**

**PRINCIPAL
POPE'S COLLEGE
(Autonomous)
SAWYERPURAM-628251**

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CSI Thoothukudi-Nazareth Diocese
Department of Chemistry & Research Centre
POPE'S COLLEGE (AUTONOMOUS), SAWYERPURAM
(Accredited with 'A' Grade by NAAC-II Cycle)

"Polymer Electronics"

DATE: 23.01.2024
TIME: 2.00 PM

VENUE: SEMINAR HALL

PRAYER SONG	:	III Year Students (Girls) & Ms.Jasmine
WELCOME ADDRESS	:	Dr. J. Ilavarasi Jeyamalar Assistant Professor of Chemistry Pope's College, Sawyerpuram
PRESIDENTIAL ADDRESS	:	Dr. Y. S. Santhi Pon Indira Principal, Pope's College, Sawyerpuram
HONOURING THE RESOURCE PERSON- MEMENTO	:	Dr. Y. S. Santhi Pon Indira Principal, Pope's College Sawyerpuram
INTRO-CHIEF GUEST	:	Dr.J.Clara Jeya Geetha Assistant Professor of Chemistry Pope's College, Sawyerpuram
DANCE		Ms.Vijayalakshmi, I PG
RESOURCE PERSON	:	Dr. N. Somanathan Rtd Deputy Director & Head Department of Polymer Science & Technology, CLRI.
FEEDBACK		
Vote of Thanks	:	Dr. P. Vijaya Assistant Professor of Chemistry Pope's College, Sawyerpuram
National Anthem		



C.S.I. Thoothukudi Nazareth Diocese

Department of Chemistry and Research Centre

Pope's College

(Autonomous)

Sawyerpuram-628251



"Polymer Electronics"

Interactive Lecture

Chief Patron

Mr.D.Neeger Prince Giftson

LAY SECRETARY, TND &
SECRETARY, POPE'S COLLEGE

Patron

Dr.Y.S.Santhi Pon Indira

PRINCIPAL,
POPE'S COLLEGE

Venue



Seminar Hall

Time



2 p.m

Chief Guest



Dr.N.Somanathan

Rtd Deputy Director & Head
Polymer science & Technology Dept
CLRI

Date



23 January 2024



Convenors

Dr.C.Ravi Samuel Raj

Associate Professor of Chemistry

Dr.Caroline Daisy

Assistant Professor of Chemistry

Organizing Secretaries

Dr.J.Clara Jeya Geetha

Assistant Professor of Chemistry

Dr.J.Ilavarasi Jeyamalar

Assistant Professor of Chemistry

Co-ordinator

Dr.P.Vijaya

Assistant Professor of Chemistry





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SAWYERPURAM-628 251

REPORT FOR INTERACTIVE LECTURE

1.	Organized by	:	Department of Chemistry & Research Centre
2.	Title	:	Interactive Lecture on "Polymer Electronics"
3.	Program	:	Inaugural
4.	Prayer / Song	:	Ms.Jasmine, IQAC -Non Teaching
5.	Welcome Dance	:	Ms.Vijayalakshmi, I M.Sc Chemistry
6.	Welcome Address	:	Dr.J.Ilavarasi Jeyamalar, Assistant Professor of Chemistry
7.	Felicitations	:	Dr.Y.S.Santhi Pon Indira, Principal, Pope's College
8.	HOD's Address	:	Dr.C.Ravi Samuelraj, Associate Professor of Chemistry
9.	Introduction of the Guest / Resource Person	:	Dr.J.Clara Jeya Geetha, Assistant Professor of Chemistry
10.	Guest / Resource Person Address	:	Dr.N.Somanathan, , Rtd Deputy Director & Head, Polymer Science and Technology Department , Central Leather Institute of Technology, Chennai . Discussed how the polymer used in our practical life, and earning methods with polymer
11.	Feed Back	:	Oral feedback given by students and feedback form also collected
12.	Vote of Thanks	:	Dr.P. Vijaya, Assistant Professor of Chemistry
13.	No. of Participants	:	46
14.	Level	:	College
15.	Enclosures (Copy)	:	Invitation // Program List / List of Participants / Photos / Certificate

Samuel
IOD

Santhi S.
Principal

CURRICULUM VITAE

Name

NARAYANASASTRI SOMANATHAN

Address for
Communication

Senior Principal Scientist (Deputy director) & Head (retired)
Polymer Sci. & tech. Laboratory,
Central Leather Research Institute,
Adyar, Chennai 600 020, India.

Tel: mobile + 91 9444940134
(res) 0091-44-43835319

nssomanathan@gmail.com,
nsomanathan@rediffmail.com

Date of birth

February 11, 1957

Academic qualifications

1. Ph.D 1. (Chemistry-Biophysics (interdis.)) University of Madras (1992)
2. Ph.D. 2. (Humanities-Science (interdis.)) University of Madras (1991)

FIELD OF EXPERTISE

I have more than 38 years' experience in the structure (molecular –micro-(supra molecular) macro)- property relations in polymeric materials. More than 90 publications in international journal of repute and peer reviewed International proceedings. 5 Indian patents and one American, U.K. and Germany patent.

HONOURS & AWARDS

Awarded Long term DAAD fellowship (German Academic Exchange Service Fellowship) for advanced studies and research by Deutscher Akademischer Austausch Dienst, Bonn during June 1989 to September 1990. Worked with Prof. G. Wegner, founder director, Max Planck institute for polymer forschung, Mainz,

Under the re-invitation program of DAAD for long-term fellows, worked in Phillips University, Marburg, Germany during May-June 1999.

Under the invitation of German universities (Bayreuth and Marburg) and Institute (Max Planck Institut fur polymer forschung,) visited Germany during September 1999-April 2000 as visiting scientist.

BIMF Fellow- University of Bayreuth, Germany Sep-Nov. 2002.

Visiting scientist- University of Bayreuth, Germany Nov. 2006-Jan 2007.

CSIR-DAAD visiting scientist –Tech. university, Chemnitz, Germany Sept.-Nov. 2007
Visiting Scientist, National Taiwan Univ., Taipei, April-Oct. 2008 (sabbatical leave)
CSIR-DAAD Bilateral program of exchange of scientist fellowship, Tech. Univ. Chemnitz, Sept-Nov. 2015.

Invited to contribute a Chapter in the Hand Book of Advanced Materials testing, Marcel Dekker, USA.

Invited to contribute a review in the journal "International journal of Modern Physicscondensed mater physics".

Reviewer for many journals of repute in Polymers like, Macromolecules, J. of applied polymer Science, JI. of polymer Science, JI of Macromol. Sci. (pure & Appl. Chem.) etc. and to Journal of American Chemical Society, Spectra chemica Acta, Physical chemistry and chemical physics (PCCP), JI. of Materials chemistry, Soft matter, Small, J. Thermal analysis & calorimetry, Molecular simulation, synthetic metals, green chemistry etc.

Associate editor for the volumes "Macromolecules-New Frontiers"-proceedings of the IUPAC International symposium on advances in polymer science and technology, MACRO-98.

WORK EXPERIENCE

I worked in Polymer Laboratory, Central Leather Research Institute (CLRI), Madras since 1978. I have superannuated from CLRI service on 28 February 2017. I was a professor of AcSIR and hon. Professor. At Anna university teaching material science for more than 15 years till my retirement.

The basic understanding of structure-property relationships in polymers is being utilized in solving the problems referred to by the industries. Different types of polymers were synthesized and the polymeric structure with electrical, electronic, thermal and mechanical properties was studied in detail depending on the application of these polymers for varied applications. The structures include molecular, micro and macro structures, which are related to different properties of simulated end use application.

Conducting polymers with novel structures/properties are being synthesized, which have potential applications in various fields including electronics especially in Optoelectronic applications like light emitting diode, solar cell etc. Design and synthesis of novel conjugated polymers has been studied, which can simultaneously give out all base colors in electroluminescence under low threshold voltage. Compounds were also designed to get polarized electro emission (self oriented structures) in all base colors. Functionalized Polythiophenes polymers /copolymers were designed which can have high absorption in visible range and form into a donor/acceptor in the hetero junction solar cells. Conducting materials have been designed for sensor applications. The structure- thin film characteristics of the coatings were correlated with the device properties

Development of smart/ intelligent materials based on conducting polymers/ leather. In order to incorporate finishing techniques, which are eco friendly, new conducting polymer formulations are being developed, as these are useful for the application of pollution free finishing techniques such as powder coating for non conducting surfaces like leather. Polymer composites based on leather waste is being currently undertaken in order to prepare leather like polymer composites.

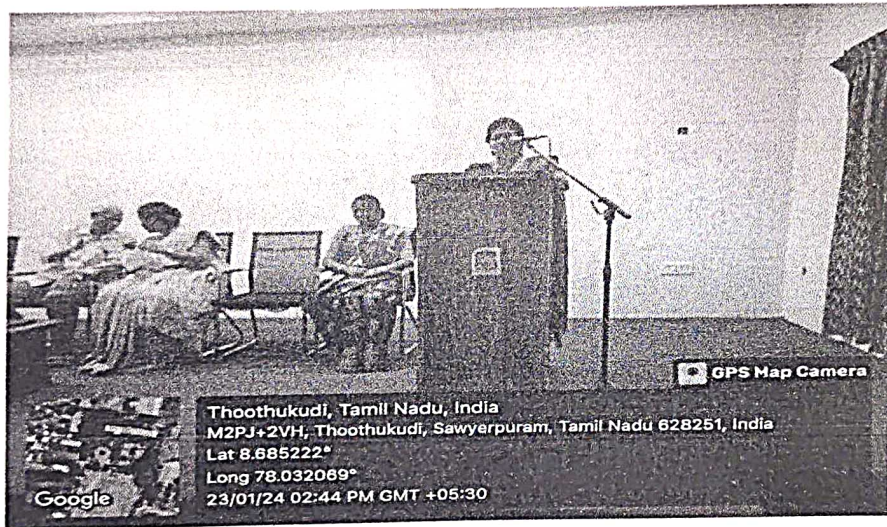
Development of novel test procedures for visco-elastic materials, and the mechanism of failure of the polymers.

Studies on the modifications of biopolymers like casein, gelatine and collagen for varied industrial applications

Blending suitably with other polymers depending on the required property can modify the properties of the polymers. Polymers like Poly acrylonitrile, Polystyrene, Poly methyl methacrylate were blended with polymers of acrylic and methacrylic esters and the

compatibility and other properties of the blends were analyzed using ultrasound and other sophisticated techniques. Thin films characteristics and morphology were correlated with the structure.

In addition to R & D work, I teach polymers and advances materials for B. Tech and M.Tech (Anna univ.) programs. and AcSIR. I have guided several students in Physics, Chemistry, Polymer Science, Applied Chemistry, textile technology (inter disciplinary) for their masters and Ph.D. programs. I have delivered many invited lectures in India and abroad.





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DEPARTMENT OF CHEMISTRY & RESEARCH CENTRE
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SAWYERPURAM-628 251, THOOTHUKUDI

**INTERACTIVE LECTURE ON
"POLYMER ELECTRONICS"**

Certificate

This is to certify that Mr./Ms. _____
of _____
participated in the Interactive Lecture on "Polymer
Electronics" organized by the Department of Chemistry &
Research Centre of Pope's College, Sawyerpuram on
23/01/2024

Dr.C.Ravi Samuel Raj
HOD

Dr.Y.S.Sanathi Pon Indira
Principal



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Sawyerpuram-628 251, Thoothukudi Dist, Tamilnadu

“POLYMER ELECTRONICS”

DATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

1. Name : H. Balakrishnan
2. Class : Research Scholar
3. Overall performance of the programme : Good ✓ Moderate Bad
4. Quality of the resource persons : Good ✓ Moderate Bad
5. Quality of arrangements : Good ✓ Moderate Bad
6. Hospitality : Good ✓ Moderate Bad
7. The programme is useful? : Yes ✓ No answer No
8. Your suggestions : very useful

H. Balakrishnan

SIGNATURE



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"POLYMER ELECTRONICS"

DATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

Name : *D. Sam Siles*
Class : *II, MSc Chemistry*
Overall performance of the programme : Good Moderate Bad
Quality of the resource persons : Good Moderate Bad
Quality of arrangements : Good Moderate Bad
Hospitality : Good Moderate Bad
The programme is useful? : Yes No answer No
Your suggestions : *wow! feel Amazing*

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“POLYMER ELECTRONICS”

Venue: Seminar Hall

DATE: 23.01.2024

FEEDBACK FORM

- Name : *A.P. Deepak Ajay Kumar*
- Class : *M.Sc Physics*
- Overall performance of the programme : Good Moderate Bad
- Quality of the resource persons : Good Moderate Bad
- Quality of arrangements : Good Moderate Bad
- Hospitality : Good Moderate Bad
- The programme is useful? : Yes No answer No
- Your suggestions : *we need more device*


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"POLYMER ELECTRONICS"

DATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

Name : M. Rajeevel
Class : B.M.Sc Chemistry
Overall performance of the programme : Good Moderate Bad
Quality of the resource persons : Good Moderate Bad
Quality of arrangements : Good Moderate Bad
Hospitality : Good Moderate Bad
The programme is useful? : Yes No answer No
Your suggestions :


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“POLYMER ELECTRONICS”

ATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

Name : S. Ganeshamoorthy
Class : B. M.Sc Chemistry
Overall performance of the programme : Good Moderate Bad
Quality of the resource persons : Good Moderate Bad
Quality of arrangements : Good Moderate Bad
Hospitality : Good Moderate Bad
The programme is useful? : Yes No answer No
Your suggestions :

3


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“POLYMER ELECTRONICS”

DATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

1. Name : S. Krishna Devi
2. Class : II M.Sc zoology
3. Overall performance of the programme : Good Moderate Bad
4. Quality of the resource persons : Good Moderate Bad
5. Quality of arrangements : Good Moderate Bad
6. Hospitality : Good Moderate Bad
7. The programme is useful? : Yes No answer No
8. Your suggestions : -

S. Krishna Devi

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"POLYMER ELECTRONICS"

ATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

Name : A. Anisha Jebin.

Class : I M.sc zoology

Overall performance of the programme : Good Moderate Bad

Quality of the resource persons : Good Moderate Bad

Quality of arrangements : Good Moderate Bad

Hospitality : Good Moderate Bad

The programme is useful? : Yes No answer No

Your suggestions : -

A. Anisha Jebin.
SIGNATURE



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FEEDBACK FORM

Name : S. Amala Giranap
Class : I.M.Sc chemistry
Overall performance of the programme : Good Moderate Bad
Quality of the resource persons : Good Moderate Bad
Quality of arrangements : Good Moderate Bad
Hospitality : Good Moderate Bad
The programme is useful? : Yes No answer No
Your suggestions : -

S. Amala Giranap
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“POLYMER ELECTRONICS”

DATE: 23.01.2024

Venue: Seminar Hall

FEEDBACK FORM

Name : R. Christina Navamani,
Class : IMSc Chemistry
Overall performance of the programme : Good Moderate Bad
Quality of the resource persons : Good Moderate Bad
Quality of arrangements : Good Moderate Bad
Hospitality : Good Moderate Bad
The programme is useful? : Yes No answer No
Your suggestions :

R. Christina Navamani

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FEEDBACK FORM

- | | | | | |
|---|---|--|-----------|-----|
| 1. Name | : | T. Vijaya lakshmi . | | |
| 2. Class | : | I. M.Sc Chemistry . | | |
| 3. Overall performance of the programme | : | Good <input checked="" type="checkbox"/> | Moderate | Bad |
| 4. Quality of the resource persons | : | Good <input checked="" type="checkbox"/> | Moderate | Bad |
| 5. Quality of arrangements | : | Good <input checked="" type="checkbox"/> | Moderate | Bad |
| 6. Hospitality | : | Good <input checked="" type="checkbox"/> | Moderate | Bad |
| 7. The programme is useful? | : | Good <input checked="" type="checkbox"/> | Moderate | Bad |
| 8. Your suggestions | : | Yes <input checked="" type="checkbox"/> | No answer | No |

T. Vijaya lakshmi
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"Polymer Electronics"

DATE: 23.01.2024

VENUE: SEMINAR HALL

REGISTRATION FORM

S.No.	Name of the Student	Department & Class	Signature
1.	R. Jenisha	I. M.sc chemistry	R. Jenisha.
2.	I. Nivista	I. M.sc. Chemistry	I. Nivista
3.	D. Mercy Sharon	I. M.sc chemistry	D. Mercy Sharon
4.	P. Roselin	I Msc. chemistry	P. Roselin
5.	R. Christina Navamani	I Msc. chemistry	R. Christina.
6.	P. Baby Tailay'a.	I. M.sc chemistry	P. Baby Tailay'a.
7.	S. Amala Granap.	I. M.sc Chemistry	S. Amala Granap.
8.	M. Paviithra	I. M.sc zoology	M. Paviithra
9.	A. Anisha Jebin	I. M.sc zoology.	A. Anisha.
10.	C. Santhiya	I M.sc zoology.	C. Santhiya
11.	T. Rajeshwari Monisha.	I. M. sc. zoology.	T. Rajeshwari Monisha.
12.	S. Krishna Devi	II M.sc zoology	S. Krishna Devi
13.	S. Sumitha	II B.sc chemistry	S. Sumitha
14.	G. kanaga varsha	ii B.sc chemistry	G. kanaga varsha
15.	M. Mariammal	II B.sc chemistry	M. Mariammal
16.	M. Manisha	II M.sc chemistry	M. Manisha
17.	A. R. Shivaly Jaba Rathra	II M.sc chemistry	A. R. Shivaly Jaba Rathra
18.	P. Santhiya	II M.sc chemistry	P. Santhiya

S.No.	Name of the Students	Department & Class	Signature
19.	M. Ulsha Nayagi	II. M.Sc. Physics	M. Ulsha
20.	P. Jennifer Nancy	II MSc Physics	P. Jennifer
21.	P. Beulah	II Ind M.Sc Physics	P. Beulah
22.	B. Sabanya	II Ind M.Sc Physics	B. Sabanya
23.	M. Vadivukkavasi	II Ind M.Sc Physics	M. Vadivukkavasi
24.	K. Madhala Rani	II Ind M.Sc Physics	K. Madhala Rani
25.	G. Maragatha Lakshmi	II M.Sc (Physics)	G. Maragatha Lakshmi
26.	V. Neena	Research Scholar (Chem)	V. Neena
27.	J. Maria Libyal	Research scholar (chem)	J. Maria Libyal
28.	M. Irulandi alias Irudayraj	II M.Sc Zoology	M. Irulandi
29.	M. Shanmugam	II. M.Sc. zoology	M. Shanmugam
30.	P. Rajavann	I m.sc Zoology	P. Rajavann
31.	M. Balavinoth	Research Scholar (Chem)	M. Balavinoth
32.	A.P. Deepak Vijay Kumar	II M.Sc Physics	A.P. Deepak Vijay Kumar
33.	V. Rameshwarathi	II. msc chemistry	V. Rameshwarathi
34.	P. Sam Siles	II. msc chemistry	P. Sam Siles
35.	M. Karguvel	II M.Sc chemistry	M. Karguvel
36.	J. Pimmennal	II M.Sc Physics	J. Pimmennal
37.	B. Anusulhan	II M.Sc chemistry	B. Anusulhan
38.	R. JOSEPH PRAKASH	II. M.Sc Chemistry	R. Joseph prakash
39.)	K. SENTHIL KUMAR	II. M.Sc Chemistry	K. Senthil Kumar
40.	M. Ramesh vel	II M.Sc. chemistry	M. Ramesh vel

