

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 060.

DEPARTMENT OF CHEMISTRY


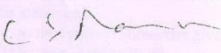
Indian Science Academies sponsored

Two Day Lecture Workshop


on

“CHEMISTRY FOR A SUSTAINABLE PLANET” held on 8th & 9th April, 2021

SANCTIONED ORDER

 Indian Science Academies, Bengaluru National Science Academy, New Delhi Academy of Sciences India, Prayagraj	SCIENCE ACADEMIES' EDUCATION PROGRAMME P.B. No. 8005, C.V. Raman Avenue, Spring Valley, Bengaluru 560 080 Telephone: (080) 2266 1207, 2266 1210, Fax: (080) 2361 6094 Email: sep@ias.ac.in Website: www.ias.ac.in
Dr A. Geetha Associate Professor Dept. of Chemistry Kongu Engineering College Perundurai 638 060	Sub: Lecture Workshop on “Chemistry for a sustainable planet” during 08 - 09 April 2021.
Dear Madam,	Thank you for submitting the proposal for conducting the virtual Lecture Workshop on “Chemistry for a sustainable planet”. The budget of Rs. 21,000/- (Rupees Twenty-one Thousand only, capital items i.e., webcam, microphone etc. will not be paid by the Academy) has been approved by the Academy. Honorarium for supporting staff is inadmissible.
After the completion of the Workshop we need the following:	1. a brief report of the workshop 2. time-table of the workshop 3. Statement of receipts and payments certified by finance personnel of your institution or a Chartered accountant. 4. Detailed statement of accounts (in the prescribed format) along with copies of vouchers/bills. 5. Utilization certificate as per GFR 19A (enclosed)
Please settle all the claims at your end and send us the final expenditure statement for releasing the amount.	
We wish the Workshop all success.	With regards,  C S Ravi Kumar Coordinator Science Education Programmes
A well structured and well organized workshop could be conducted.	

BROCHURE



SCIENCE ACADEMIES' LECTURE WORKSHOP

ON


CHEMISTRY FOR A SUSTAINABLE PLANET

8th & 9th April 2021
(VIRTUAL MODE)


ORGANIZED BY

DEPARTMENT OF CHEMISTRY
SCHOOL OF SCIENCE AND HUMANITIES
KONGU ENGINEERING COLLEGE
(AUTONOMOUS)
PERUNDURAI - 638 060


RESOURCE PERSONS



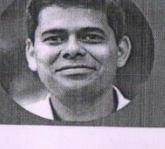
Dr. T. PRADEEP FNASc
Professor
Department of Chemistry
Indian Institute of Technology Madras
Chennai – 600036



Dr. SUBI JACOB GEORGE
Professor
New Chemistry Unit
Jawaharlal Nehru Centre for Advanced Science Research - JNCASR
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Department of Chemistry
Indian Institute of Technology, Delhi
New Delhi-110016



Dr. SATHISH A. PATIL
Associate Professor
Solid State and Structural Chemistry Unit
Indian Institute of Science
Bangalore- 560 012

AGENDA

DAY-1
(08.04.2021)

Session	Lecture Topic	Speaker
Session I		
09:30 am - 10:00 am	Inaugural & Keynote Address	Dr. T.Pradeep
10:00 am - 11:15 am	Advanced materials for clean water	Dr. T.Pradeep
Session II		
11:45 am - 01:00 pm	Basic concepts on Dynamic Supramolecular Polymers and Vitrimers : Towards Recyclable Plastics	Dr. Subi Jacob George
Session III		
02:00 pm - 03:15 pm	Chemistry in microdroplets	Dr. T.Pradeep

DAY-2
(09.04.2021)

Session	Lecture Topic	Speaker
Session IV		
10:00 am - 11:15 am	Challenges and Opportunities in Dynamic Supramolecular Polymers and Vitrimers : Towards Recyclable Plastics	Dr. Subi Jacob George
Session V		
11:45 am - 01:00 pm	Chemical Waste degradation and conversion to wealth	Dr. Ashok K Ganguli
Session VI		
02:00 pm - 03:15 pm	Organic Solar Cells	Satish A. Patil
03:15 pm VALEDICTORY		

ABOUT SCIENCE ACADEMIES

Indian Academy of Sciences (IAS), Bangalore founded in 1954 by Sir C.V. Raman, aims at promoting the progress and upholding the cause of science in the pure and applied branches. Its major activities include publication of scientific journals and special volumes, organization of meetings of the Fellowship and discussions on important topics, recognition of scientific talent, improvement of science education, and taking up other issues of concern to the scientific community. As part of the science education programmes, the Indian Academy of Sciences, Bangalore in association with the Indian National Science Academy (INSA), New Delhi and The National Academy of Sciences, India (NASI), Allahabad organize programmes for the improvement of science education in the Universities and Colleges throughout the country.

The Science Academies have been supporting two-three-day lecture workshops and fifteen-day refresher courses on topics of current interest throughout the country. All the programmes conducted by the Joint Science Education Panel of the Academies are fully supported by the Department of Science and Technology, Govt. of India. DST has undertaken a series of activities to mark 75 years of India's Independence (Azadi Ka Amrit Mahotsav). The Mahotsav is a series of S&T programmes and events to be organized to commemorate the 75th anniversary of India's Independence. The lecture workshop/refresher courses are part of the series in these programmes. The Academy will also organize periodic lectures by eminent scientists. These programmes will be adequately expanded in the celebration of the 75 years of Indian Independence.

ABOUT THE INSTITUTION

Kongu Engineering College, a leading research oriented institution with excellent facilities, is run by Kongu Vellalar Institute of Technology (KVIT). The programmes of the institute are accredited by NBA and the institute is accredited by the Institute of Engineers. The Institution has completely an enclosed site with great natural beauty. It consists of 167 acres of land richly endowed with beautiful Greenland. It is an autonomous institution affiliated to Anna University, Chennai. The college has completed 36 years of dedicated and excellent service to the people of India and abroad in the field of Technical Education. The college offers 14 UG Programmes, 15 PG Programmes and 16 Research Programmes in Engineering, Applied Sciences and Management. The institution ranked high among the engineering institutions in India by various surveys conducted by reputed magazines/journals/organizations. In National Institution Ranking Frame work (NIRF) survey, the institution has bagged 135th rank among all engineering institutions in India including premier institutions like IITs, NITs etc. Categorized as 'Band A' institution in category of 'Private or Self-Financed College / Institutes in ARIMA 2020. It has an active industry institute partnership centre to interact with industries and also has Technology Business Incubator (TBI), first of its kind in India, nurturing entrepreneurs in high tech areas.

ABOUT THE DEPARTMENT

The Department of Chemistry was established in 1984 and is equipped with the latest facilities and state-of-the-art infrastructure. The total faculty strength in the Department is 17, out of whom 11 are Doctorates. The Department is recognized as a Research Centre (for 12 PhD's awarded) and it provides research facility leading to the award of the degree of Doctor of Philosophy. A separate research incubation centre is established in the Department to extend its facility to nearby industries through consultancy work in the field of testing, heavy metal determination, food analysis and to solve any of their problems. Two UGC and one DST funded research projects were completed in the department.

ABOUT THE WORKSHOP

Chemistry is the science that has helped us use both renewable and non-renewable resources to transform our lives. Chemists invent and design many of the materials that make items we use every day, from electronics to medicine. The subject of lecture workshop will mainly emphasize the potential needs for futuristic research in chemistry. Its objective is to provide a platform for the science student engineering background students, few academicians, and few research scholars in order to stimulate their interest in knowing the advances in chemistry and its applications for a sustainable planet.

GENERAL INSTRUCTIONS

Faculty Members handling Chemistry and UG/PG students of Science and Engineering can attend this workshop.

There is no registration fee.


The number of participants is limited to 120 and registration is done on a First come First Served basis.

Registration link:

Last date for registration:

The selected participants will be intimated through their registered email and a separate WhatsApp group formed for further intimations to join the meeting through Google Meet platform.

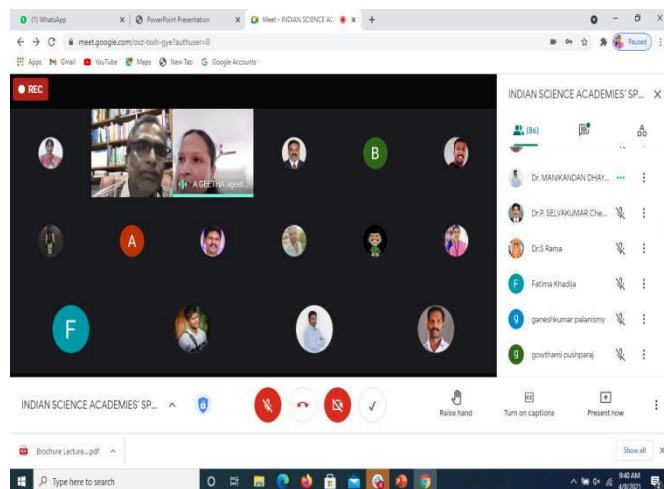
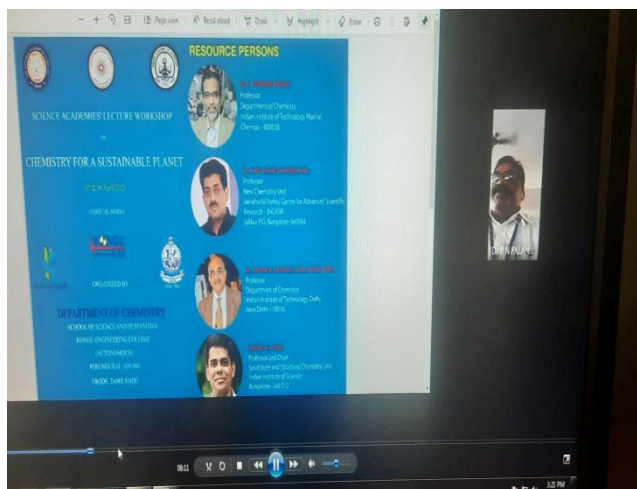
SCAN TO REGISTER



ORGANIZING CONVENER
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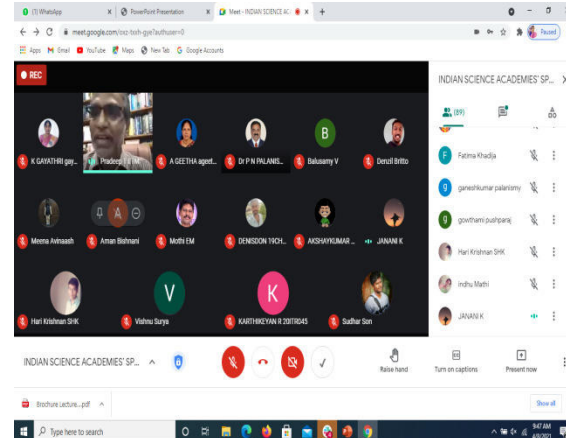
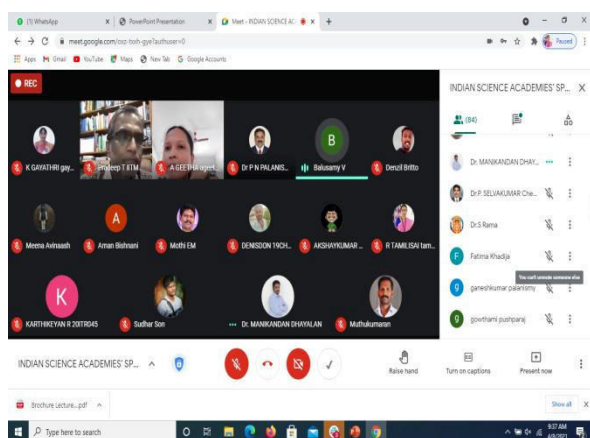
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PHOTOS



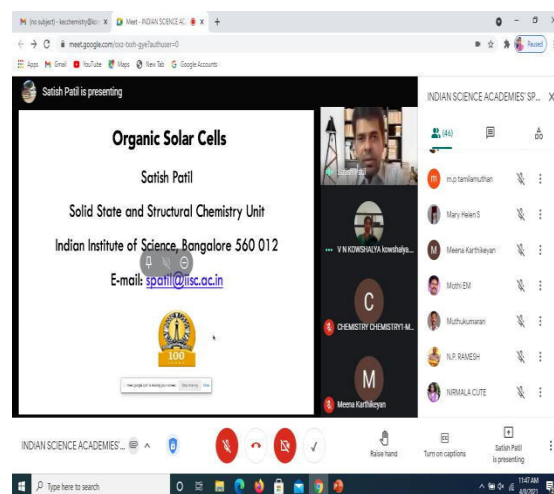
**Welcome Address by Dr.P.N. Palanisamy
Prof. and Head, Dept of Chemistry/KEC**

**Dr.A.Geetha, Associate Professor/Chemistry,
Coordinator of Lecture Workshop briefing the workshop**



Felicitation by Dr.V.Balusamy, Principal,KEC

**Keynote address by Dr.T.Pradeep, Professor/Chemistry
IITM, Chennai & Convener of the Lecture workshop**



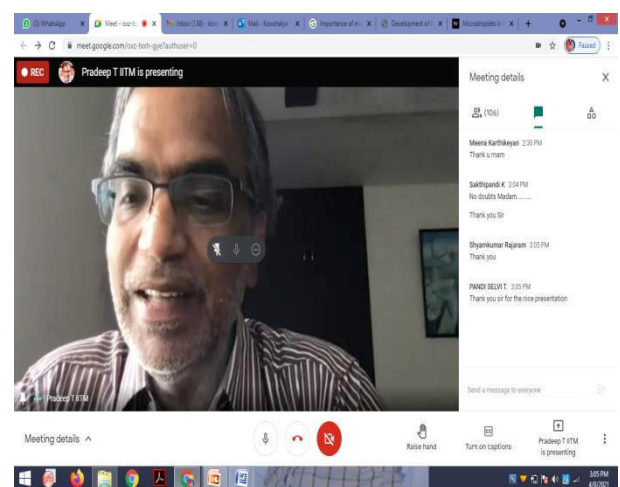
What the implications to sustainability?

- No solvents
- No work-up
- Fast
- Room temperature
- Limited equipment
- Direct analysis

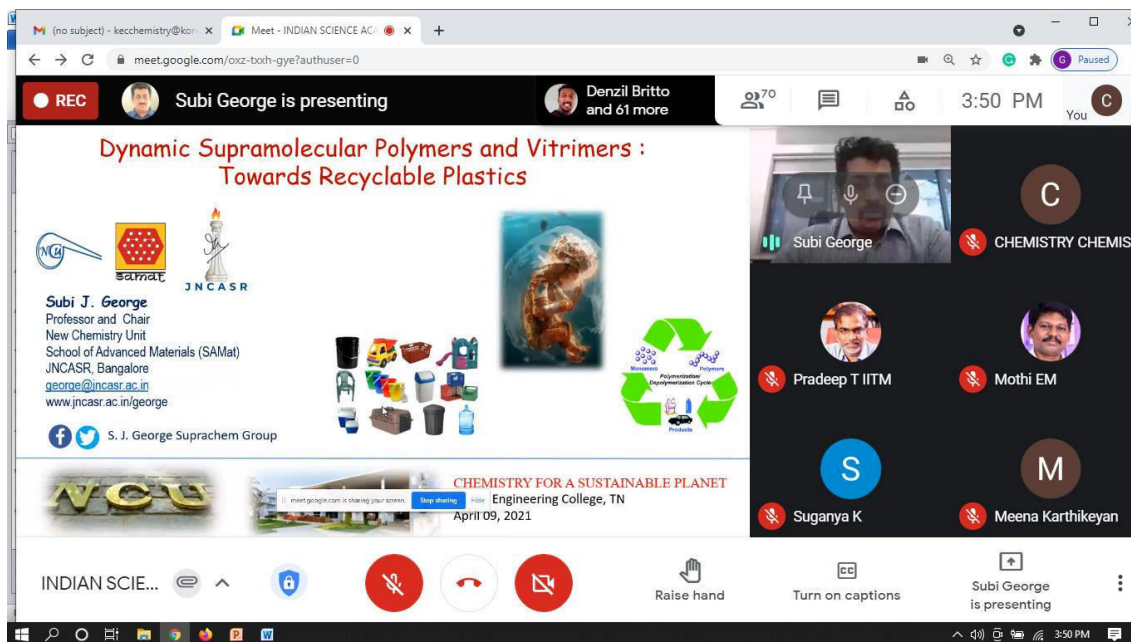
Can this be done at scales?

Can complicated reactions happen?

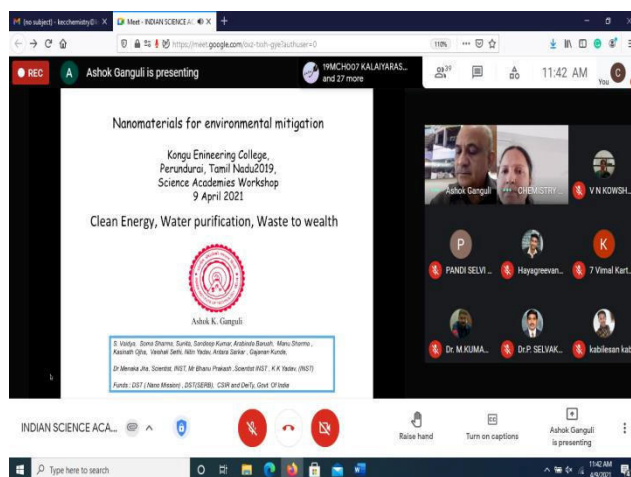
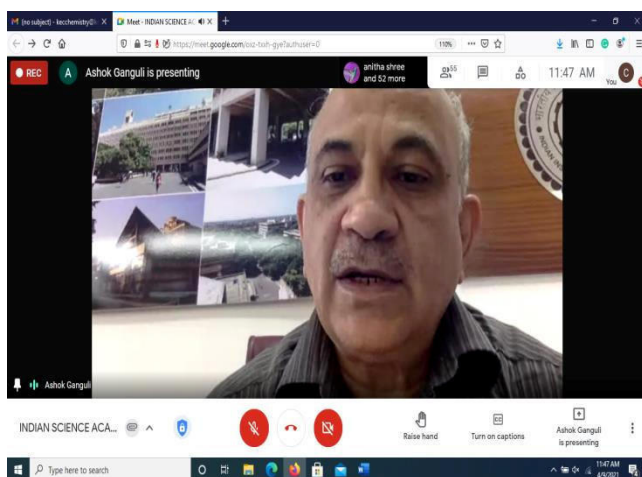
Yes!



**Invited lecture by Dr.T.Pradeep FASc, FNA, FNASc, FNAE., Professor, Department of Chemistry,
Indian Institute of Technology Madras, Chennai**



Invited lecture by Dr. Subi Jacob George FASc, Professor, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore



Invited lecture by Dr. Ashok K Ganguli FASc FNASc FRSc Professor, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi

PARTICIPANTS LIST

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UTILISATION CERTIFICATE

GFR 19 - A
(See Rule 212 (1))
Form of Utilization Certificate

S.No	Letter No. and Date	Amount (Rs.)	Certified that out of Rs.21,000/- of Grant - in- aid only sanctioned during the year 2020-21 in favour of Kongu Engineering College by Science Academies Educational Programme, Bangaluru. (letter No. given in the margin). A sum of Rs. 18,500/- has been utilized by the college for the purpose of conducting Lecture Workshop for which it was sanctioned. There is Rs. NIL as savings out of total income & expenditure of the workshop and Rs. NIL as unspent balance to the extent of Science Academy grant refunded out of savings. The Spent amount Rs.18,500/- need to be reimbursed by Science Academies Educational Programme.
1.	11 December 2020	Rs. 21,000/- (Sanctioned Amount)	
	Total	Rs. 21,000/- (Sanctioned Amount)	

1. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised that following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised.

1. The fund for Honorarium, Convener and coordinator fee has been utilized properly.
2. The fund for other incidental expenses like poster designing about resource persons, brochure for lecture workshop for publicity and fees for auditor has been utilized properly.



Signature of the Finance Officer
REGISTRAR
KONGU ENGINEERING COLLEGE
THOPPUPALAYAM (PO)
PERUNDURAI (TK), ERODE - 638 666

20/12/20
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SUMMARY REPORT

The Department of Chemistry, Kongu Engineering College, successfully organized **Indian Science Academies sponsored Two Day Lecture Workshop on “CHEMISTRY FOR A SUSTAINABLE PLANET” held on 8th & 9th April, 2021**. Eminent persons from reputed research organizations delivered lectures with the topics related to the field of chemistry on “CHEMISTRY FOR A SUSTAINABLE PLANET”. Participants (both students and faculty altogether around 140- list attached) from various educational institutions and research scholars all over Tamil Nadu have attended the workshop. We had permitted the participants to attend the workshop without registration fee. Since the programme organized through virtual mode, the session login for the workshop was started at 9.15 a.m. on 8th April, 2021.

The workshop started with the inaugural function. **Dr.P.N.Palanisamy**, Professor and Head, Department of Chemistry, Kongu Engineering College welcomed the gathering through online mode. **Dr.V.Balusamy**, Principal, Kongu Engineering College gave the felicitation. **Dr.A.Geetha**, Associate Professor, Department of Chemistry, Kongu Engineering College and also the Coordinator of this Lecture workshop gave an introductory note about the workshop and which is followed with keynote address by **Dr.T.Pradeep FASc, FNA, FNASc, FNAE.**, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai and also the Convener of this Lecture workshop.

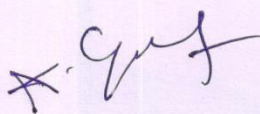
The inaugural function was followed by invited lectures. The two days of lecture workshop consisted of six invited lectures. The first invited lecture (Session I) which commenced at 10.00 am was addressed by **Dr.T.Pradeep FASc, FNA, FNASc, FNAE.**, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai. He delivered a lecture under the topic “**Advanced materials for clean water**”. His session was completed at 11.15am. After 30 minutes of break, the second invited lecture (Session II) started and it was addressed by **Dr. Satish A. Patil**, Professor & Chair, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore. He delivered a lecture under the topic “**Organic Solar Cells**”. The forenoon sessions ended at 1.00 p.m. The third invited lecture (Session III) commenced at 2.00 p.m. after lunch break. It was handled by **Dr.T.Pradeep FASc, FNA, FNASc, FNAE.**, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai. Dr.T.Pradeep delivered a lecture on “**Chemistry in microdroplets**”. The first day of lecture workshop was concluded at 3.30 p.m.

The second day lecture workshop started at 10.00 a.m. with the fourth invited lecture (Session IV) given by **Dr. Subi Jacob George FASc**, Professor, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore. He delivered a lecture on the topic on

“Basic concepts on Dynamic Supra molecular Polymers and Vitrimers: Towards Recyclable Plastics”. His session was completed at 11.15am. After 30 minutes of break, the fifth invited lecture (Session V) started and it was addressed by **Dr. Ashok K Ganguli FASc FNASc FRSc** Professor, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi. He delivered a lecture on **“Chemical Waste degradation and conversion to wealth”.** The forenoon sessions for the second day of lecture workshop ended at 1.00 p.m. The sixth invited lecture (Session VI) commenced at 2.00 p.m. after lunch break. It was handled by **Dr. Subi Jacob George FASc**, Professor, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore. He delivered a lecture on the topic on **“Challenges and Opportunities in Dynamic Supramolecular Polymers and Vitrimers : Towards Recyclable Plastics”.**

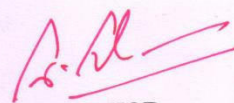
On the second day, all sessions came to an end at 3.30 p.m. The valedictory function started at 3.30 p.m. **Dr.P.N.Palanisamy**, Professor and Head, Department of Chemistry, Kongu Engineering College welcomed the gathering. **Dr.T.Pradeep FASc, FNA, FNASc, FNAE.**, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai and also the Convener of this Lecture workshop gave the valedictory address. **Dr.A.Geetha**, Associate Professor, Department of Chemistry, Kongu Engineering College and also the Coordinator of this Lecture workshop proposed the vote of thanks. The two day lecture workshop came to an end.

The lecture workshop provided a platform to the participants to acquire more knowledge in the field of chemistry. It is important to mention here that the participants have also shared their opinions and clarified their doubts with experts about their research work during the Lecture workshop.



Convener

(Dr. A. GEETHA
ASPI/CHEMISTRY)



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