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# CHEMFLASH

**THE CHEMISTRY NEWS LETTER**  
**EASWARI ENGINEERING COLLEGE**

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## CONTENTS:

Quotes

Message from HOD'S desk

Achievements

Articles

Department events

## Quotes:

Would you like me to give you a formula for success? It's quite simple, really: Double your rate of failure. You are thinking of failure as the enemy of success. But it isn't at all. You can be discouraged by failure or you can learn from it, so go ahead and make mistakes. Make all you can. Because remember that's where you will find success." **Thomas J. Watson**

"Success is just a war of attrition. Sure, there's an element of talent you should probably possess. But if you just stick around long enough, eventually something is going to happen."-

**DaxShepard**

**MESSAGE FROM THE HOD'S  
DESK**

**Dr. C. Ravichandran  
Professor and Head**

The department of chemistry has brought out its quarterly news letter **chemflash**. Its focus is on all the recent happenings in the field of chemistry. This news letter is sure to give a suitable platform to all the budding engineers to widen their perspective. I express my heartiest congratulations to all the staff and students who were behind the success of chemflash.

I seek their continued co-operation in all the future endeavours.

**Dr. C. Ravichandran**

**ACHIEVEMENTS**

**ACADEMIC RESULTS:**

Dr. C. Ravichandran, Mrs. R. Anithadevi, Mrs. AR. Anusa & Dr. S. Dhandayuthapani has produced 100 % results in Engineering Chemistry.

**PAPER PRESENTATION IN SEMINAR:**

Mrs. R. Anithadevi, Mrs. AR. Anusa, Dr. C. S.Joneselvamalar, Dr. K.Saravanan were presented research paper in National conference on Recent trends in Nanobiosensors, University of Madras, 22-23 February 2018

***Chemistry Factoids***

by S. Sharan EIE-B Ist year

- Lipstick contains lead acetate or sugar of lead. This toxic lead compound makes the lipstick taste sweet.
- It's possible for hot water to freeze more quickly than cold water.

## LOW COST PREVENTION

By - Sai Vignesh EIE –B 1<sup>st</sup> Year



A new class of low-cost and sustainable hybrid materials could possibly displace activated carbon as the preferred choice for reducing wastewater and air pollution. The material, is synthesized inexpensively from solid wastes and a naturally abundant polymer and can cut down pollutants in air and wastewater with more success than activated carbon, the current gold standard adsorbent.

. The Colonial Pipeline, which carries fuel from Texas to New York, ruptured last fall, dumping a quarter-million gallons of gas in rural Alabama. By the time the leak was detected during routine inspection, vapors from released gasoline were so strong they prevented pipeline repair for days. Now, scientists are developing technology that would alert pipeline managers about leaks as soon as failure begins, avoiding the environmental disasters and fuel distribution.

## DRINKING WATER FROM AIR

By- Shiva MK EIE-B 1<sup>st</sup> year

The test device was powered solely by sunlight, and although it was a small proof-of-concept device, if scaled up its output would be equivalent to more than a quarter-liter of water per day per kilogram of MOF, the researchers say. With an optimal material choice, output can be as high as three times that of the current version, says Kim. Unlike any of the existing methods for extracting water from air at very low humidities, "with this approach, one can do it, even under these extreme conditions,"

The system, based on relatively new high-surface-area materials called metal-organic frameworks (MOFs), can extract potable water from even the driest of desert air, the researchers say, with relative humidities as low as 10 percent. Current methods for extracting water from air require much higher levels -- 100 percent humidity for fog-harvesting methods, and above 50 percent for dew-harvesting refrigeration-based systems, which also require large amounts of energy for cooling. So the new system could potentially fill an unmet need for water even in the world's driest regions.

## GUEST LECTURE



- The Department of Chemistry has organized a guest Lecture titled “Nano Science in health care” on 21.02.18(FN) in Hitech Hall –I of our college campus.
- Dr. T. Devasena gave a talk on “Nano Science in health care ”. She shared the knowledge about the benefits of nano in health curing diseases. She explained the several advantages nano particles how readily cure the several diseases like cancer

## CHEMSTAR 2018

The Department of Chemistry has conducted a talent exam for I year B.E/B.Tech students. Many students have won prize in the “CHEMSTAR 2018” talent exam held on 16.03.18.

S. No	Name of the student	Year/Branch/Section	Prize
1.	MANAV NAIR P	I CSE-A	I
2.	JACOB MATHEW	I CSE-A	II
3.	ROHIT.E	I ECE-B	III
4	BALAMURUGAN. L	I MECH-A	Consolation Prize
5	SAASWATH KANNA. K.V	I MECH-C	

## NATIONAL SEMINAR

The Department of Chemistry has organized National Seminar on “Recent Challenges in Environment – (NSRCE 18)” for the students and faculty members. Around 350 Students of Easwari Engineering College and 72 faculty members were participated.

Dr. C .Ravichandran , Head of the Chemistry Department and Convener , welcomed the gathering and gave an overview of the National Seminar.

Chief Guest Dr. Sulthan Ahmed Ismail, Director, Eco Science Research Foundation, Chennai delivered the inaugural address and gave special talk on Valuable of Eco System

Dr. T S Sridhar, Director General, Ramapuram Campus delivered the special talk on Environmental issues.

Principal Dr. K Kathiravan delivered the presidential address and Vice Principal Dr. L Antony Michale Raj offered the felicitations.

Chief Guest Dr. A. Ramachandran, Honorary Professor, Climate Change and Adaption Research, Anna University, Chennai delivered the Special talk on climatic changes of the Environment.

Chief Guest Dr. S. Ganapathy Venkata Subramaniam, Professor, Centre for Environmental Studies, Anna University, Chennai delivered the Special talk on Environmental management laws and also gave the valedictory address



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