



NOTABLE CONTRIBUTIONS BY INDIAN VISIONARIES AND SCIENTISTS IN CHEMICAL SCIENCES

Each year, our college and **Indira Gandhi Centre for Atomic Research (IGCAR)**, Kalpakkam collaborate to host seminars & workshops under the Auspices of **Society for Advancement of Chemical Sciences and Education (SACSE)**. For the academic year 2022-2023, we have collaborated with Andhra University for one day National Seminar on “Notable Contributions by Indian Visionary and Scientists in chemical Sciences” on the occasion of birth Anniversary of **Acharya Sir P.C. Ray** which was organized by IGCAR & SACSE.

Since 2012 SACSE has been Conducting Annual lecture series in memory of outstanding Indian Scientists who have contributed Immensely in the field of Chemical Sciences.

Acharya Sir Prafulla Chandra Ray, an Indian educationist, historian, Industrialist and philanthropist, established the first Indian research school in chemistry and is regarded as the father of Chemical Science in India. In memory of **Sir P.C. Ray** on his birthday, the 2nd of August, SACSE is organizing **Acharya P.C. Ray** memorial programs.



Society for Advancement of Chemical Sciences and Education (SACSE)



Acharya Sir P. C. Ray Memorial Programs - 2022

Date: 07.09.2022,
Kalpakkam.

Dear Sir,
Greetings !!!

You may be aware that the chemistry community at Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam has been actively engaged in organizing various events, to promote and popularize chemistry amongst the student and research community at both school and college levels. These include lectures, chemistry demonstrations, quizzes and theme meetings on focused areas of current interest. All these are being organized under the auspices of Society for the Advancement of Chemical Sciences and Education (SACSE), launched in 2012. As part, we have been conducting annual lecture series in memory of outstanding Indian scientists who have contributed immensely in the field of chemical sciences.

Acharya Sir Prafulla Chandra Ray, an Indian educationist, historian, industrialist and philanthropist, established the first Indian research school in chemistry and is regarded as the father of chemical science in India. In memory of Sir P. C. Ray on his birthday, the 2nd of August, SACSE is organizing Acharya P. C. Ray Memorial Programs.

In addition, this year India is celebrating its 75 years of independence - Aazadi ka Amrit Mahotsav to commemorate those who fought for freedom along with highlighting the progress achieved by the nation during the last seventy-five years. The out-breaking progress made in the fields of Science and Technology due to the visionaries of times is equally worth observing. At this juncture, SACSE would like to conduct a one-day program at your department on the "**Notable Contributions by Indian Visionaries and Scientists in Chemical Sciences**" comprising igniting lectures, quizzes and interaction with students describing the opportunities in the Department of Atomic Energy to kindle the scientific temper on **14-10-2022**. We look forward to your interest, encouragement and support for conducting this program at your premises.

Thanking you and with best regards

Yours sincerely,

(Dr. V. Jayaraman)

To
The Principal,
Chaitanya Degree College for Women,
Visakhapatnam,
Andhra Pradesh

President, SACSE,
Associate Director, FMCG, MC& MFCG
Indira Gandhi Centre for Atomic Research,
Kalpakkam
Ph: 044-27480500-24290



CHAITANYA DEGREE & PG COLLEGE FOR WOMEN

Affiliated to Andhra University, Chaitanya nagar, Old Gajuwaka, Visakhapatnam-530026.



Department of Chemistry

Andhra University, Visakhapatnam

Jointly Organized with

Chaitanya Degree and PG College for Women

Organizes in Association with

Society for Advancement of Chemical Sciences and Education, IGCAR, Kalpakkam

A One Day National Seminar On

**Notable Contributions by Indian Visionaries and Scientists
in Chemical Sciences**

Date and time : 14-10-2022, 10.00am Venue : Seshadri Lecture Hall

Chief Patron



Prof. P.V.G.D. Prasad Reddy
Vice Chancellor

Patrons



Prof. K. Samatha
Rector



Prof. V. Krishna Mohan
Registrar



Prof. Srinivasa Rao
Principal, AUCST

Resource persons

- Dr. C. V. S. Brahmananda Rao
- Dr. A. Sree Rama Murthy

IGCAR Kalpakkam.

The chief guests inaugurated the event with lightening the lamp.



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Lat 17.223011°
Long 83.327957°
14/10/22 10:30 AM GMT +05:30



Visakhapatnam, Andhra Pradesh, India
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Visakhapatnam, Andhra Pradesh, India
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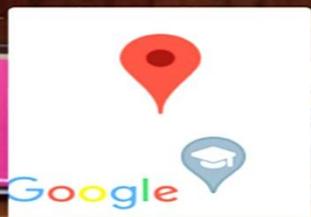
Visakhapatnam, Andhra Pradesh, India
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Former Vice Chancellor **Prof. G Nageswara Rao Garu** has started seminar on importance of chemistry and followed by the Rector & Principal remarks and the resource persons Presentations.



GPS Map Camera



Visakhapatnam, Andhra Pradesh, India
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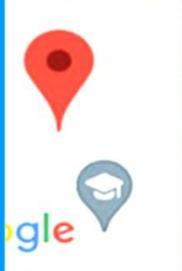


GPS Map Camera



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Felicitation to the honorable dignitaries present over there for their gracious presence.



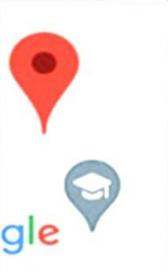
Visakhapatnam, Andhra Pradesh

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Long 83.328007°

14/10/22 11:21 AM GMT +05:30



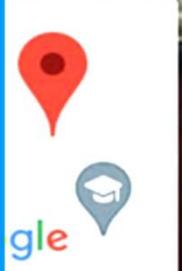
Visakhapatnam, Andhra Pradesh

Department Of Chemistry, Chinna Walt
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Lat 17.723022°

Long 83.32797°

14/10/22 11:20 AM GMT +05:30



Visakhapatnam, Andhra Pradesh

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Long 83.327921°

14/10/22 11:19 AM GMT +05:30

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Affiliated to Andhra University, Chaitanya nagar, Old Gajuwaka, Visakhapatnam-530026.

Dr. Brahmanandarao garu Associate Professor has given his PPT on famous Indian Chemists & their works, Achievements,

Acharya Sir Prafulla Chandra Ray (1861-1944) | Sir Shanti Swaroop Bhatnagar (1894-1955) | Yellapragada Subbarao (1895-1948)





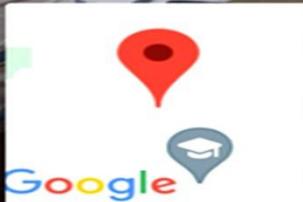
CHAITANYA DEGREE & PG COLLEGE FOR WOMEN

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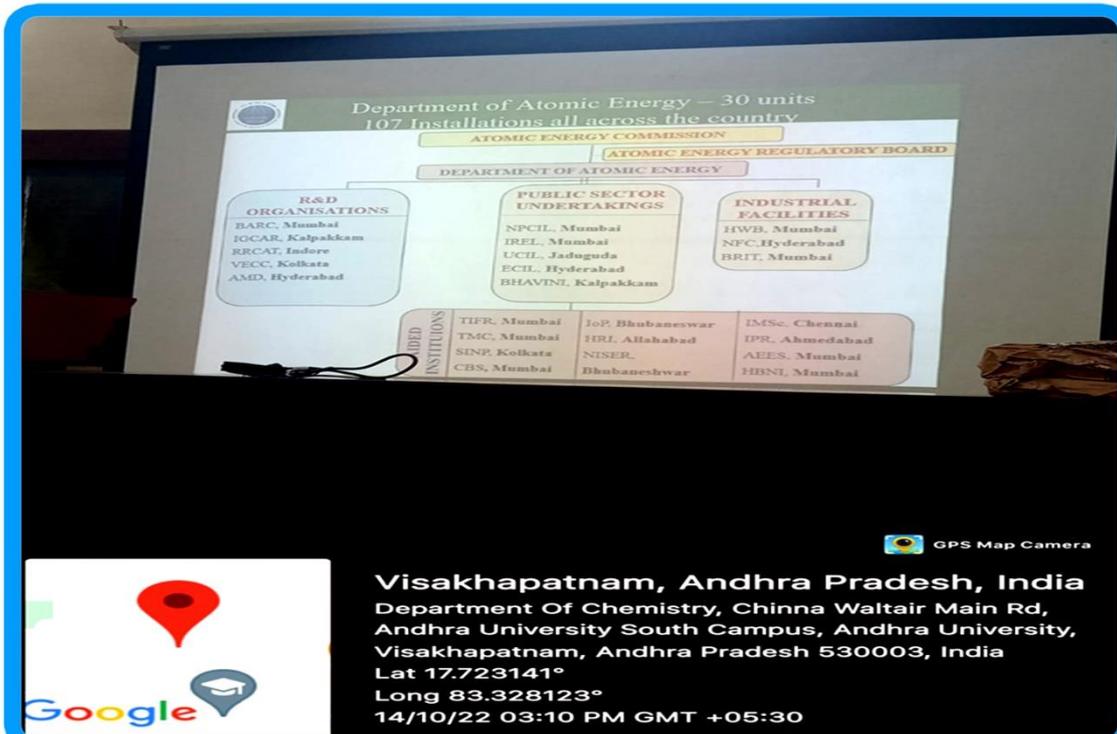
A lecture was given by **Dr. Sree RamaMurthy Garu Senior Scientist IGCAR** on **The life history & Achievements of famous chemists of India**

Dr. Asima chatterjee | Dr. Nayudamma

and briefing on Department Of Atomic Energy and its Organizations, Industrial facilities, Public sector undertakings, Aided institutions etc, and explained the Orientation programmes initiated by BARC at BARC Training Schools and the way to make their career.



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14/10/22 03:10 PM GMT +05:30

Quiz competition has been held for the students who have attended the event.

The winner of the Quiz has been awarded with great books in chemistry Along with participation certificate.

One of our students Ch.Gowthami of 2ndM.Sc. Organic Chemistry stood as a Runner in Quiz.



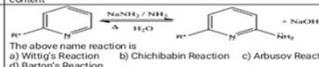
SACSE Chemistry Quiz

Name: _____
Class: _____
College/University: _____

College Name

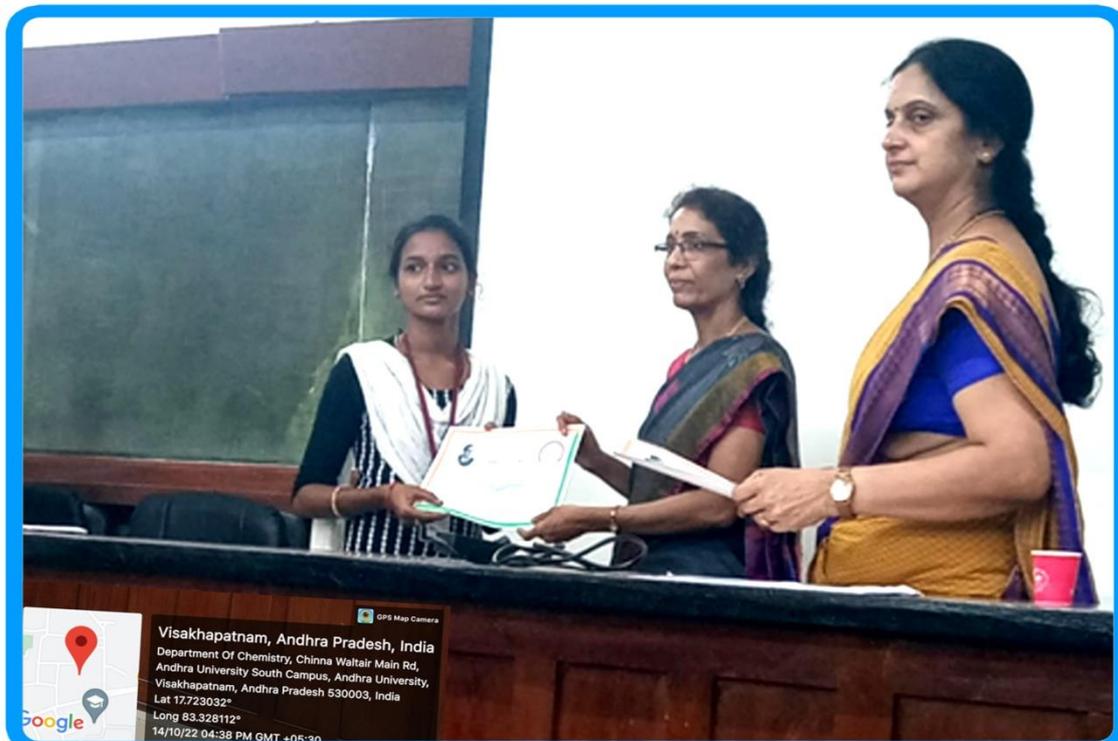
Rules

- Choose one best answer and write your choice on the right column
- Each question carries 4 marks and wrong answer carries -1 mark
- Total time : 10 minutes

Q. No	Question	Choice
1	Which chemist got the Nobel prize in chemistry for the synthesis of chlorophyll a) R. Woodward b) H.C Brown c) E.J Corey d) R Hoffmann	
2	The transition metal present in Zeise's Salt is a) Platinum b) Palladium c) Iridium d) Vanadium	
3	The measurement in bomb calorimeter is carried out constant a) Temperature b) Pressure c) Volume d) Energy	
4	The lack of which chemical among the following is responsible for Parkinson's disease a) Thyroxin b) Acetylcholine c) Oxytocin d) Dopamine	
5	Gadolinium is a a) Ferromagnetic material b) Paramagnetic material c) diamagnetic material d) none of the above	
6	Which law states that the entropy of vaporization is almost the same value, about 85-88 J K ⁻¹ mol ⁻¹ , for various kinds of liquids at their boiling points. a) Hess's Law b) Trouton's Rule c) Nemst Rule d) None of these	
7	Ruby and gems is chemically a) Silica b) Beryl c) Fluorosilicate d) Conundrum	
8	The constituents of brass is a) Sn & Pb b) Sn & Zn c) Cu & Zn d) Zn & Pb	
9	Rockwell's scale is used to measure the a) Hardness b) Softness c) Density d) Viscosity	
10	The enzyme present in yeast is a) Zymase b) Lactase c) Galactase d) Erythrose	
11	The higher stability of tertiary carbocation is due to a) Hyperconjugation b) Electromeric effect c) Inductive effect d) Resonance	
12	Carotenes are colored because of a) Benzene rings b) Conjugation c) Large number of carbon atoms d) None of the above	
13	A macromolecule exhibits better binding if its affinity for its ligand changes with the amount of ligand already bound. This is known as a) Lock and Key effect b) Cooperative effect c) Enzymatic effect d) Hill's effect	
14	The Kroll process produces a) Calcium b) Sodium c) Aluminum d) Titanium	
15	Conversion of gel to sol a) Peptisation b) Gelation c) Coagulation d) Solvation	
16	Of the four elements given below, which element is not found in nature a) Promethium b) Osmium c) Gallium d) Tellurium	
17	What am I really taking when I have a barium meal is a) Barium lactate b) Barium sulfate c) Barium citrate d) Barium carbonate	
18	Which among the following is an extensive variable a) Viscosity b) Volume c) Temperature d) Density	
19	Nuclides with the same number of neutrons are a) Isotones b) Isobars c) Isotopes d) Isotopes	
20	The units of Boltzmann's Constant is a) J K ⁻¹ b) mol ⁻¹ c) J S ⁻¹ d) J T ⁻¹	
21	In Crystal field theory, the presence of ligands split the square planar complex into a) Two groups b) Three groups c) Four groups d) Five groups	
22	Neutron was discovered by a) Madame Curie b) Henry Becquerel c) Niels Bohr d) Chadwick	
23	Which one of the following elements is generally used in Atomic clocks a) Barium b) Rubidium c) Cesium d) Radium	
24	The oil of mirbane is a) Sulfuric acid b) Nitrobenzene c) Toluene d) Nitric acid	
25	What is termed as Fool's Gold a) FeS ₂ b) Lignite c) Silver d) FeS ₂	
26	Hardening of Cement is due to a) Dehydration b) Hydration c) Oxidation d) Absorption	
27	Daltorism is a) Color Blindness b) Cell destruction c) Tuberculosis d) Mumps	
28	Philosopher's Wool is a) ZnO b) CaO c) Cotton d) Jute	
29	The interpretation of the wave function was given by a) Max Planck b) Heisenberg c) Schrodinger d) Born	
30	In Tanabe Sugano diagram the y axis is E/B. What does the B stand for a) Number of unpaired electrons b) Crystal field energy c) Racah parameter d) Magnetic Field	
31	The metal present in carboxypeptidase is a) Ca b) Co c) Fe d) Zn	
32	Karl Fischer titration is used for the estimation of a) Salt content b) Moisture content c) Acid content d) Alcohol content	
33	 The above name reaction is a) Wittig's Reaction b) Chichibabin Reaction c) Arbusov Reaction d) Barton's Reaction	
34	The element Copernicium in the periodic table is represented by a) Cp b) Cn c) Co d) Cm	
35	The element Strontium in the periodic table belongs to a) s block b) block c) d block d) f block	

W: _____
UA: _____

Total: _____





Participants with resource persons

