

Inaugural lecture by Prof. 5 Chandrasekaran



Inter-College Chemistry Workshop for Laboratory Staff





Poster making competition on **Ozone Day** Celebration



YUSUF HAMEID INSPIRATIONAL CHEMISTRY PROGRAMME FOR SCHOOL TEACHERS



GOLDEN JUBILEE LECTURE BY PROF. V.S. PARMAR



GC 302 INNOVATION PROJECT 2ND PRIZE AT NATIONAL CONFERENCE



THE ANNUAL CHEMISTRY MAGAZINE





ALUMNAE MEET



JGHTING THE LAMP ON NATIONAL CONFERENCE

CHEMISTRY
DEPARTMENT
SECURED 2"
POSITION IN
MARCH PAST
ON SPORTS
DAY











Left to Right

First line: Sakshi, Kajal, Anjali, Neha, Garima, Anjali, Chahat, Jannat, Anupama, Sonam Second line: Deepali, Shikha, Shivam, Sweeti, Pooja, Yachika, Rachita, Ashima, Archita, Vabhika, Komal, Aarti Third line: Shalu, Pooja, Supriya, Swati, Mukti, Deepa, Sakshi, Nikita, Zeba, Bhawna, Rita, Roopal Fourth line: Dinesh, Kajumee, Rashi, Parul, Deepika, Diksha, Monika, Mamta, Savi, Gunjan, Bhawna Not in the picture: Anjali, Nikita

THE ANNUAL CHEMISTRY MAGAZINE



Formal inauguration lecture of Rasgandhayan on August 3, 2017 by Prof. A K Susheela.



Educational seminar on "Laboratory Glassware" by experts from Borosil on 30 August, 2017



Dr. CK Khurana Memorial talk, on the topic "An introduction to nanoscience and nanotechnology: Big world of small things" by Dr. SasankaDeka, Assistant Professor, Department of Chemistry, DU on September 6, 2017



Eco-friendly greeting card making competition and extempore on World ozone day, September 16



Tribute to Dr. AsimaChatterjee on her 100th birth anniversary, by a lecture on "Better Living through Green Chemistry" on 13 October by Dr. Ram Mohan, Illinois Wesleyan University, USA.



Guest lecture on "Green chemistry for a sustainable future" by Professor JavedIqbal, Founder and Chairman Cosmic Discoveries and formerly professor at IIT Kanpur.

EVENTS

Inaugural Lecture: SOLUTION OF AIR POLLUTION



8th August 2018

The Chemical Society organized Its Inaugural lecture on the topic 'Solution of Air Pollution by Chemistry Research'. This talk, with Prof. Umesh Kulshrestha was a great session. The pollution striked capital and its residents really need to know the effects of pollution and its solutions. He discussed various type of sources of pollution, how we are a part of those, the cure of this pollution named disease. With research datas he tried to explain the possible solution for detonating Pollution which is giving birth to millions of problems

Lecture on Artificial Intelligence



26th September, 2018

The chemical society organised a lecture on the topic of 'Artificial Intelligence' for the students and teachers. The lecture cum interactive session with the speaker, Mr.Nitesh Sharma was great. He talked about artificial intelligence, its importance and future of mankind with this. He also discussed the disadvantage of a digital world based on artificial intelligence. A talk about Sophia, The Robot; Goals and application of artificial Intelligence was great for students to know about growing technology, its requirements, merits and demerits.

Lecture on Food Adulteration



5th October 2018

The Chemical Society organized a lecture on 'Food Adulteration' by Dr. Nisha Saini that focused on the use of substituents which degrade the quality of food in order to earn more profit and increase the yield. She also pointed out the various effects of adulterants and methods for the prevention of food adulteration. The lecture was indeed an eye opening and informative one.



Lecture: Chemistry in the world of Imaging Agents



23th January 2019

Dr. Rashi Mathur of DRDO (Defence Research and Development Organization) gave an insightful lecture titled "Chemistry in the world of imaging agents". Students and teachers of chemistry department were enlightened about the types of imaging modalities, therapeutic and diagnostic imaging agents and the elements used in imaging through a very engaging talk.



DR. C.K. Khurana Memorial Lecture





15 February 2019

RASGANDHAYAN conducted the Dr. C.K. Khurana memorial lecture in the loving memory of Dr. Khurana who was the founder member of the department. It was a matter of immense pride for the department to have DR. S.V. Eswaran former Head of the Department of Chemistry, St. Stephens College University of Delhi as the guest speaker who delivered a talk on the topic "OXYGEN, VISWAMAYENE And CATARACTOGENESIS".

The lecture commenced by the lightening of candles in the memory of Dr Khurana followed by a heartfelt introductory note by Dr. Keya Banerjee remembering Dr Khurana as a jovial person full of zest and zeal.

The lecture given by Dr. Eswaran focussed on his research interest The Nitrene- Carbene conversion and his discovery of the new molecule "Viswamayene" which was named after Prof. M.A. Viswamitra and discussed his pioneer work in eradicating the Cataract and Retinoblastoma

Dr. Eswaran's enthusiastic interaction with the students as well as the teachers made the lecture much more interesting and informative.

BIO-FUEL DAY

31st August 2018

World bio-fuel day is organized annually to create awareness about the importance of renewable fuels as an alternative to conventional fossil fuels. This spirit of green chemistry is celebrated every year by the Chemical Society of Gargi College. This year too an article writing competition as well as bookmark making competition on the theme: "Innovative ideas on biofuel" was organized. Students from various science departments participated with full zeal to explore their literary skills and creativity.

11	inners of Bookmark ma	aking competition	
I	Mehak	Physical Sc. IIIyr	
II	Ritika Verma	Physical Sc.II yr	
	Kashish Goyal	Zoology (H) II yr	
Ш	Divya Saini	Chemistry (H) III yr	
	Ayishwarya	Maths (H) II yr	







Winners of Article-writing competition				
I	Manisha	Microbiology(H) II yr		
	Pratibha	Physical Sc. I yr		
п	Lavleen Sachdeva	Botany(H) III yr		
ŀ	Bharti Yadav	Chemistry(H) III yr		

World Ozone day

10th October 2018

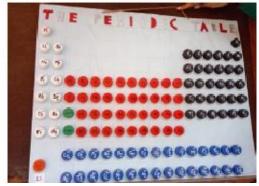
The UN General Assembly on December 19, 1994 proclaimed September 16 to be the International day for the preservation of the Ozone layer. This commemorates back to 1987 when 24 countries committed themselves via the Montreal Protocol, to rid the world of substances that threaten the Ozone layer. The Chemical Society takes great pleasure in celebrating the occasion every year, in hopes of bringing attention to the depletion of ozone layer, boosting awareness among the students. Each year the students walk out gaining more knowledge and more enthusiasm to serve their purpose in saving the planet. To mark the occasion, the Chemical society organized two events; Extempore, where the students learnt and gathered information to speak on the subject and Best out of waste, where waste materials were incorporated into making something useful and practical. Both events were well received with enthusiastic participation from students of various departments.





Winners of Extempore competition			Winners of Best out of waste competition		
I	Lavleen Sachdev	B.Sc. (Hons) Botany I Year	I	Smriti Kushwaha	B.Sc. (Hons) Botany I Year
II	Leimapokpam Nancy	B.Sc Physical Sciences III Year	П	Shaifali	B.Sc (Hons) Physics II year
Ш	Muskan Gill	B.Sc. (Hons) Chemistry III Year	Ш	Bharti Yadav	B.Sc. (Hons) Chemistry III Year





Rangoli Competition

27th February 2019

2019 marks a momentous year for Chemistry with the United Nations General Assembly designating 2019 as the International year of the periodic table of chemical elements. The decision was announced by the International Union of Pure and Applied Chemistry (IUPAC) stating that the year will raise global awareness of Chemistry and the periodic table. To honor the occasion, the Chemical Society arranged a number of events, of which one was the Rangoli making competition open to all departments. The theme of the competition was "How discovery of elements in the periodic table impact our life". The students took up the challenge in pairs creating beautiful and informative Rangolis, each one reflecting on how periodic table associates with life in a completely different perspective.

: (Hons) Physics I Year : (Hons) Physics I Year : (Hons) Physics II year
(Unus) Dhawing II was
(Hons) Physics II year
.Sc. Zoology II Year
Hons) Chemistry III Year
Hons) Chemistry III Year





Rangoli Competition

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I	Shreya	B.Sc. (Hons) Physics I Year
	Sakshi	B.Sc. (Hons) Physics I Year
П	Shaifali	B.Sc (Hons) Physics II year
	Kashish	B.Sc. Zoology II Year
Ш	Smiriti Kushwaha	B.Sc. (Hons) Chemistry III Year
	Divya Saini	B.Sc. (Hons) Chemistry III Year







Visit to Jivagram



Field visit to Aravalli Biodiversity Park

Ayurveda and Yoga The Science of Well-Being











Reduces stress and anxiety

Self-realization

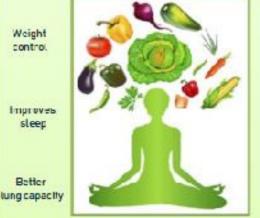
Inner strength

Weight control

Іпргоуев

sleep

Better



Glowing skin

Mental Clarity

Positive attitude

Body detoxification

Peace and calmness

Erhances memory and concentration

Strengthens Immune system

One Year Certificate Course 2018-19

LIVE HEALTHY LIVE HAPPY !!



Add on Course

Ayurveda and Yoga: The Science of Well Being

Organized by

Department of Chemistry In Association with JIVA Ayurveda Faridabad

2018-2019

- About the Course

 One year Cariffician Course for the academic session 2018-19

 12-15 because of about 2 hours each in the entire academic ses

 Emment speakers will be invited to deliver lecture.

 Includes charcoom because, practical sessions and field visits.

- Broad Tobics
- aring disease through use of natural berbs and plants entract assigning lifestyle and food habits according to your Doshas and i (Vata, Pita and Kapha) and Meditation produc
- tion for enhancing physical feature, bear
- hactioning and stress management.
 "Therapoutic benefits of medicinal Plants.
 "Vedic Science and its relevance in modern times.

- Eligibility Criteria

 Students of Gargi College pursuing degree programs in any subject
- tion will be done on the basis of first come first basis. tion of the Course- One year from August 2014- April 2019. ther of students (batch size) 50 no Fee: Rr. 1000/-

Conveners

Dr. Nelsa Sharma & Dr. Geela Saini Assistant Professor Department of Chemistry, Gargi College

Centact No. 9956595511, 9891350220

Ayurveda and Yoga The Science of Well-Being









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- - Conveners -Dr. Neha Sharma & Dr. Geeta Saini Assistant Professor

Department of Chemistry, Gargi College Contact No: 9958595511, 9891350220

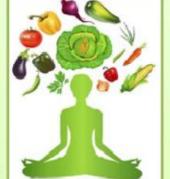
Emotional balance

Reduces stress and anxiety

Self-realization

Inner strength

Weight control



Glowing skin

Mental Clarity

Positive attitude

Better lung capacity

Improves

sleep

Body detoxification

Peace and calmness

Enhances memory and concentration

Strengthens Immune system

One Year Certificate Course 2018-19

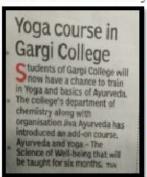
LIVE HEALTHY LIVE HAPPY !!



Yoga and meditation session

The add on course included not only the theoretical lectures but there were yoga and meditation sessions too. Field visits to Jiva Ayurveda centre and Aravalli Biodiversity Park furthermore brought the modern youth much closer to the nature and enhanced their interests to next level for Ayurveda. Many guest lectures were given by Dr. Shashi Tyagi, Dr Promila Kumar, Dr. Kiran Prabha and Mr. Mukesh on numerous valuable topics like Ayurvedic plants and their medicinal importance, Vedic sciences, Ayurveda the traditional medicinal system of India and the importance of yoga. The session concluded with a 2 day-trip to Patanjali Haridwar, one of the growing name in the field of Ayurvedic products.

By organising this add on course, the Chemistry Department not only brought back the lost interest of Ayurveda in modern youth's life but also the things taught in this program will enable them to lead a stable and healthy life in the long run.





Visit to Jiva Ayurveda Center, Faridabad

Trip to GSK, Sonepat

12th February 2019

Glaxo Smith Kline (GSK), a British pharmaceutical Multi-national Company founded in December 2000, aims to improve the quality of human life by manufacturing and delivering a variety of healthcare products to over 100 countries, of which India is a prime consumer. The healthcare product are broadly categorised into three categories namely – pharmaceuticals and vaccines, oral healthcare products and nutritional products. Boost, Crocin, Iodex, Horlicks, Sensodyne, Otrivin are some of the widely sold products all over India.





A trusted bottle of Horlicks has been an indispensable part of the Indian household cupboard for the last three generations. Our Department organised an educational visit to GSK unit in Sonepat, one of the three manufacturing units of Horlicks in India.



And the Scintillations trophy goes to Chemistry!



"Scintillations" - The Science Fest of Gargi College is a two-day fest open to all DU colleges where all the science departments organize fun scientific games and events. Students from all disciples participate in these events in large numbers. "Scintillations 2019" saw mass participation from Chemistry students in almost all the events, be it our own departmental events or other events. Our students secured positions in many of the events which led our department to grab maximum prizes and emerge victorious.

"Fun with periodic table" and "Chemantakshiri" were the events organized by our department. About 200 students from all the disciples and various DU colleges participated in each of these events.

Fun with periodic table included two rounds: the first being the preliminary or elimination round where a questionnaire contain about 12 questions had to be solved within 20 minutes, and the second being the final competitive round where students were supposed to identify the elements with the help of hints provided and accordingly fill up the periodic table. Our students Mansi and Khushboo of 2nd year bagged the first position, followed by Ankita Sharma and Bharti from

Glimpses of Activities, 2019-2020







































Glimpses of Activities, 2019-2020













Amalgam 2019-2020















Chemical Society Events

Inaugural Lecture (August 31, 2019)

The society formally started on August 31, 2019 by hosting its inaugural lecture on the topic "The Future of Chemistry: Research, Education and Society" by Padma Shree Prof. Swaminathan Sivaram, an honorary professor at IISER, Pune. The lecture was applauded by the audience, which included science students from various departments, faculty members from other DU colleges and other universities, superannuated teachers of Gargi College. Every person sitting in the packed-seminar hall was mesmerized by the speaker's deep understanding of the subject, his command on language and his humility as a person.





Teacher's Day Celebrations (September 5, 2019)



Rasgandhayan celebrated Teacher's Day with great excitement and zeal. Volunteers presented the teachers with roses as a welcoming gesture. A cake cutting ceremony was held, followed by short performances by a few students.

Beautifully crafted scrolls with heartfelt "thank you messages" were gifted to the teachers. At the end of the program, students and teachers relished their share of the cake!

Amalgam 2019-2020

Ozone Day Celebrations - Science Fiction Writing and Doodling Competitions (September 18, 2019)

Rasgandhayan, organized a Doodling and a Science-fiction story writing competition to celebrate the 'World Ozone Day' and the 'World Biofuel Day'. The theme for story writing was "A world without ozone" and the prompt for doodling was 'Ozone day'. Students from Gargi and a few other colleges participated with great enthusiasm. The judges for the Story Writing competition were Dr. Sushmita Chowdhury and Dr. Keya Banerjee.

Dr. Uttara Dutta and Dr. B. Vaijayanthi judged the Doodling competition. The doodle winning entries are displayed alongside.



Throwball Match (October 8, 2019)





All work and no play makes Jill a dull girl!

We study hard, this time we played hard too. The Chemical Society organized a throwball match between teachers and students. The highly spirited game was enjoyed by teachers and students afke. While most teachers played, the others cheered for them. Students across all three years of Chemistry (H) gave good competition to the teachers. It was absolute fun and relieving for both the teams giving them respite from the monotony of classes, labs and files.

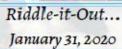
The fun was beyond compare and enthused us for playing sports more so often.

Chemical Society Events

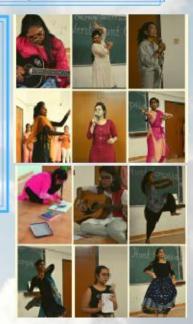
Diwali celebration and Talent-Hunt Competition (October 23, 2019)

While the festival of lights, Deepawali, was round the corner, the society came up with a new idea of lighting lamps so as to propagate the light of knowledge from teachers to students and further, to the support staff. The idea was to brighten all souls and bring the whole department together on the auspicious occasion of Diwali. Everyone enjoyed the Talent-Hunt competition held on this day where girls could be seen showcasing their latent talents like drawing, singing, dancing (contemporary and classical), poetry recitation, to name a few. The judges for the Talent-Hunt competition were Dr. Rita Bhatla and Dr. Renu Agganval. Students, in particular, enjoyed this event as it gave them a break from the monotony of labs and studies.









"The one who knows all the answers has not been asked all the questions".

Rasgandhayan organised a quizzing event in which 19 teams from the various science departments participated. The questions were picked from various fields such as current affairs, logical reasoning, brain teasers, general chemistry and entertainment. The questions required significant brainstorming by the students and they displayed good competitive spirit while giving answers. It was a fun brain exercise and gave the students a refreshing break from their rigorous academic schedule.

Amalgam 2019-2020

Dr. C.K. Khurana Memorial Lecture February 12, 2020





Celebrating the year 2020 as the year for 100 years of H-bonding, the society invited Prof. A. Ramanan from IIT Delhi to deliver the annual Dr. C. K. Khurana memorial lecture on February 12, 2020. Professor Ramanan spoke on "Molecular Rangolis - Chemical Insights into Crystallization"; and brought out the fine nuances of hydrogen bonding and crystallization, which was very well appreciated. This year, daughters of Dr. Khurana joined all of us (after 26 years) which made the lecture even more special, bringing along fond and nostalgic memories.

Visit to the Glass Blowing Facility, IIT Delhi February 15, 2020

Except from the academic world, one could also express themselves through visual art like glassblowing!'

The society organized an educational visit to the glass blowing facility of IIT Delhi on February 15, 2020. Mr. Virander Kurnar Sharma showed how glass can be blown to make glassware/apparatus of various shapes and sizes. The students were in absolute awe during the whole course of his demonstration, especially when he blew the glass so thin to make a film out of it. It was surreal to watch the glass being blown precisely to give various shapes to it. The visit proved successful and delighted one and all garnering tremendous feedback.



Commun Doney Livering

Inter-College Paper and Poster Presentation Competition CHEMAROMA, March 3, 2020

The society meticulously planned and put forth a large scale event this year - an Inter-College Paper and Poster Presentation competition, CHEMAROMA, on March 3, 2020, where a total of 16 student teams from various colleges of the University of Delhi (ARSD, ANDC, DBC, Gargi, Maitreyi, Miranda House, Ramjas, St. Stephen's, SVC, ZHEC) presented their undergraduate level project/research work. The society was privileged to have Prof. J. M. Khurana and Dr. Indu Tucker Skithwani as judges for the oral paper presentations, while the poster presentations were judged by Dr. Vandna Luthra and Dr. Ritika Chauhan. The competition received tremendous appreciation from all students and teachers alike for giving platform to young kids to come forward and present their work to their peer groups and laculty members. The prizes for the oral presentation competition were donated by Dr. Sushmita Chowdhury (in the memory of her father) and Dr. B. Vaijayanthi (in the memory of her parents). The first prize in the Oral Presentation Competition was bagged by Durothy Sachdeva, Shilpi Lamba and Priyanda Oiri of B.Sc. (H) Chemistry III year of Gargi College.







CFSL Visit Report

listening to these modulated voices still recognizable by the audio forensic experts. The department of electronics specially informed all girl students how to take extra precautions for their safety while using social media platforms and even mobile phones. We were told about cameras in hidden fans, lights, showers and other places and how using an app one can detect if there is a Wi-Fi enabled camera hidden somewhere in the room. We learnt in this division about criminals destroying data from mobile phones, computers and other gadgets and how the forensic team expertises in retrieving this lost data.

Last but not the least, the department of disputed documents made students wonder how people forge signatures, documents, cheques, currency etc. and how are these differentiated from the originals in the presence of an ink detecting UV light.

We as Chemistry students could understand the techniques, and the qualitative methods of analysis mentioned by the instructors in all divisions of the CFSL lab, thanks to our rigorous practical training in college and the knowledge of science. At the CFSL lab, we saw various instruments that are used for analysis - GC-MS Spectrophotometers, UV-light chambers, High-end microscopes, Ballistic microscopes, Super-fast Centrifuge machines (for DNA separation), qualitative determination of Fe(II) of blood, antigenantibody coloured reactions and many others. Being familiar with the simpler versions of these machines at college and the underlying chemical concepts also aided in our easy understanding of the instructions we were receiving. All the things that we learnt or are learning in College suddenly saw its usage in these labs, which gave us great happiness and satisfaction. We felt in awe with our subject - Chemistry, as it formed the basis of many important analytical tests that are being used to nab criminals and bring justice in society. It also broadlened our horizons of pursuing a career in forensic science thus utilizing our knowledge of Chemistry in real-life problems.

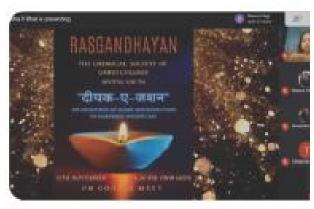
Overall the educational trip to CFSL proved to be as exciting as it promised to be. We are especially thankful to Dr. Renu Agganwal Ma'am because of whose direct intervention into communicating with the Director, CFSL, the trip was made possible. We also thank Tripti Ma'am and Aching Ma'am for working out this trip just for us. We had a gala time during this visit and thank all accompanying teachers and friends who made the visit even more informative and enjoyable - something we will remember a lifetime.





2020-211 at a glance









PICK A CLICK COMPETITION

WINNING ENTRIES



1st Position: Ishani Khandelwal

THE WINDOW OF HOPE

A sunny afternoon on a windy winter day, sitting with friends at the hauz khas fort with a book in one hand and the camera in another, never realising that the following months will be the same, looking outside from the confines of four walls of the house, hoping for a ray of sunlight to feel the as free as it did that day.



2nd Position: Shraddha R Bhat

I feel that during the whole period of civilization of humans, it is only the mankind that has benefited, and the Earth has suffered and suffered and only suffered. But in 2020, while the mankind suffered, the Earth blossomed. It was like karma hitting back, only that our excellent team of scientists were able to revert the process back again with their extremely talented skills. The below picture defines how earth (here depicted by the rose flower) is blooming amidst the other dying plants (representing the mankind).

Inter college Comic Strips Competition



WINNING ENTRIES

