



# CarBoN

Department of Chemistry,

Institute for Excellence in Higher Education Bhopal



From HOD's Desk

कर्मण्येवाधिकारस्ते माफलेषुकदाचन ।  
माकर्मफलहेतुर्भूर्मा ते सङ्गोस्त्वकर्मणि ॥

CARBON newsletter portrays the success of students. I congratulate the editorial team of Chemistry Department for the release of 10th volume of News Letter. The efforts reflect the academic and extracurricular activities performed by them during this session. Chemistry Department is one of the strongest pillars of the Institute. Just like Carbon which has catenation property, the department of Chemistry has incorporated different branches of science. It is a pleasure to have a new branch of study 'Forensic Science' from this session. I wish the students all the best for excellent performance in future as well.



Dr. Sarita Shrivastava

## AN INNOVATION IN ASSIGNMENT

The department always have an innovative way of learning. This year 120 students of B.Sc. II chemistry (Hon) performed an assignment on Food Quality and Safety on the theme "Salt Analysis" in the month of September 2018. The students were divided into five groups. Students of M.Sc.(Prev) were the mentors. These five groups performed various activities –

**Awareness survey** - All the students surveyed about the awareness of the salt consumption among the people in daily life.

**Data processing and statistical analysis** - This group of students analyzed the data from the survey conducted by the students.

**Demonstration** This group of students demonstrated iodized salt kit (provided by MPCST) in the other departments of the institute.

**Chemical Analysis** This group of students conducted experiments with Flame Photometer on various food entities such as pulses, salts, milk and fruits. This experiment is done to find out the Na and K content in these food items.

**Poster and PPT presentation** This group of students prepared posters and PPTs on the survey and experimental results.

**Skit** This group of students presented the issues associated with salt intake in the Chemfotech 2018.



Students enjoyed learning with this innovative method. The programme was supported by Vivekananda Career guidance cell, Dr. Nafeesa Siddiqui and Dr. Ishrat Alim Senior Scientists from MPCST judged and appreciated the efforts of the students. Dr. Anjali Acharya and Dr. Akhilesh Shende coordinated the programme.

## Chemfotech Society

Co-ordinator	Dr. Pushpa Mulchandani Rawtani
President	Prachi Kalia
Vice President	Rishabh Ahuja
Secretary	Namra Azim
	Tuba Siddiqui
	Aanchal Hurmade
	Milan Bhargav
Joint Secretary	Naama Hussain
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	Anamika Shukla
Creative Team	Sophiya Taitus
Event Management Team	Rahul Kourav
Carbon Editorial Team	Aayushi Soni
Financial Team	Kanika Agrawal

## Carbon Editorial Team

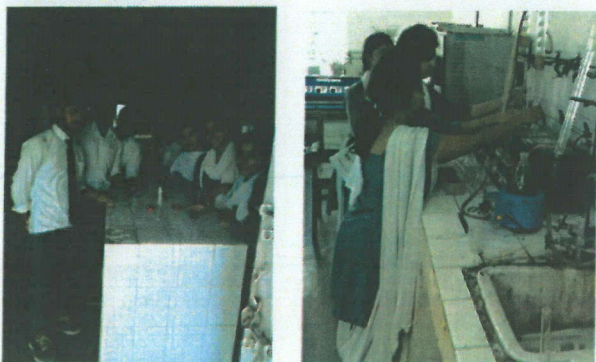
Aayushi Soni  
Srishti Dubey  
Smriti Mishra  
Mahima Khatwase



## Workshops and Training Programmes

**Candle making workshop:** A workshop was conducted under Vivekananda Career Guidance from 26<sup>th</sup>- 27<sup>th</sup> September, 2017 by Mr. Anant Singh, EDI trainer in which 50 students of the department learn eco-friendly candle making

**Cyber security Workshop:** Cyber Security workshop from 22<sup>th</sup>-24<sup>th</sup> February, 2018 under the guidance of Dr. Anjali Acharya and Sunil Mishra was organized. 48 students and teachers of various colleges attended this workshop.



**Workshop cum awareness program on food quality and safety:** 50 students from food science department participated in food quality and awareness workshop which was held on 27<sup>th</sup>-28<sup>th</sup> July, 2018

**NPTEL (National Program on Technology Enhanced Learning):** Under the guidance of Dr. R. K. Shrivastava and NPTEL Team various online courses was conducted by the department in which teachers and students enrolled themselves and completed successfully. Also Dr. Sarita Shrivastava, HOD Chemistry Department scored 1<sup>st</sup> division in it.

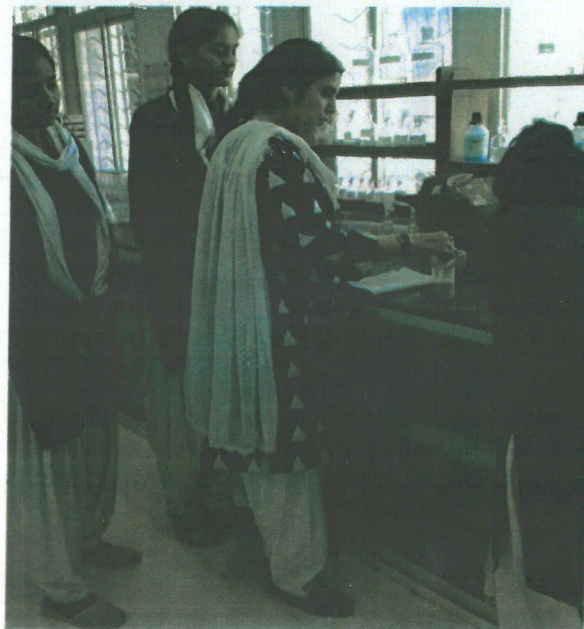
**Training program cum workshop on fingerprinting:** From 1<sup>st</sup>-25<sup>th</sup> August 2018, a Training cum Workshop had been done by Vivekanand Career Guidance Cell on Fingerprinting under the guidance of Forensic Science Department (Sagar University).



**Paper Recycling:** A workshop on Paper Recycling, headed by Dr. Sachdeva, EPCO from 9<sup>th</sup>-14<sup>th</sup> October, 2017 was organized in which 50 students of the department learnt making various useful items of daily life by waste paper recycling.



**Natural product extraction and food safety and adulteration:** Another workshop on Natural product extraction and food safety and adulteration from 27<sup>th</sup> August-20<sup>th</sup> September 2018 was organised under the guidance of MPCST.



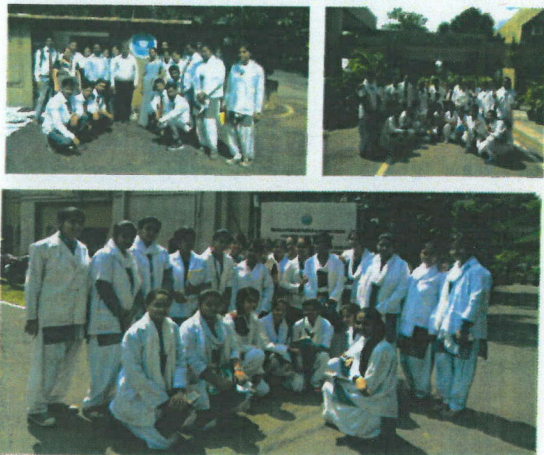
**Orientation program:** An orientation program for the students of B.Sc. Chemistry was conducted by Mr. Athar on 8<sup>th</sup> August, 2018.

**Dissertation:** Six months dissertation has been completed by the students of M.Sc. final year (chemistry) from January-June 2018 in prestigious institutes like RRCD, ISSER, IIT Mumbai.



## Industrial Training & Visits

**EPCO and PCB** - The 40 students from department went for industrial visit from 26<sup>th</sup> – 27<sup>th</sup> September, 2017 in Environmental Planning and Coordination Organization (EPCO) and Pollution Control Board (PCB) Bhopal. In this visit Mr. Rajesh Mishra demonstrated the various techniques for paper making.



**Industrial Visits** - The students also visited various industrial area of Rajasthan from 31<sup>st</sup> October – 5<sup>th</sup> November 2017 under the guidance of Dr. Anjali Acharya & Dr. Jyoti Saxena. Industries in Chandigarh were also visited from 30<sup>th</sup> March - 4<sup>th</sup> April 2018 under the guidance of Dr. Jyoti Saxena & Dr Akhilesh Shende.

**Janparishad Conference** - The faculty members from the department went for a conference on 4<sup>th</sup> December 2017 to

**CIPET** Central Institute of Plastic Engineering and Technology visited on 23<sup>th</sup> September 2017. Dr.Shubha. oriented the 30 PG students.

**Career College** organised international seminar on 10<sup>th</sup> October 2017. Faculty of chemistry department participated as resource person .Six students of PG participated in various events.

## Lectures

**Nadi Abhiyan** was organised on 29<sup>th</sup> September, 2017 under the guidance of Dr. Meghna .In this event 40 students and faculty participated.

**Endeavour Lecture** was conducted on 10<sup>th</sup> March, 2018 by Mr. Khan.In this lecture 100 students and faculty members participated.

A lecture was delivered by **Dr. Devashish Bose** HOD, Dept. of Forensic Science, Central University Sagar, on Foensic Applications(13<sup>th</sup> July 2018).

**Dr. Rajendra Verma** Director QD, PHQ Bhopal delivered a lecture on Documentation Examination ( 14<sup>th</sup> -16<sup>th</sup> July 2018).

A lecture was delivered by **Dr. S.N. Upadhyay** from Fingerprint Bureau, Bhopal on Fingerprint Identification(18<sup>th</sup> July 2018).

## Achievements

The students from the department are placed in various placement activities, students like Rishabh Ahuja, Tushar Timilsena, Manish Dhangar are selected in Lupin Pharmaceuticals, Inc., Charu Sharma is selected in Concentric, Meenakshi is selected in P& P Infotech., Kiran Mayawad is selected in Majestic Basmati Rice Ltd. Mandideep.

The students from the department are selected in National level Examination, such as Oshi Choubey & Neelesh Patel are qualified in JAM (Joint Admission Test in M.Sc.) and Mritunjay Tiwari is selected in CDS.

The students from the department got NCC certificates, Divya rani gupta (NCC 2 national certificates), Sourabh Raghuvanshi (NCC 2 certificates) and Akansha Pandey C and B certificate in NCC.

The students from the department are awarded in cultural and sports activities . Supriya got a National level award for Dance performance and Tanu Signroli in Basketball.

In various activities at institute level during Tarang 2018 (Cultural Festival) many students performed different activities and got awards for the department, Pratima Badoniya, Sneha Nema, Saipriya Sahu in flameless cooking, Priya, Aarti, Sameeksha, Tanu in Group Dance, Amrita in Mehendi and Supriya in solo dance.

Charu Sharma M.Sc. Chemistry Previous participated in panel discussion with Hon. Minister Dr. Archana Chitnis and Environmentalist Vandana Shiva organized by Dept. of Women and Child development, Govt. of M.P.. Also presented the concept of "Natural Farming" through a poster under the guidance of Dr. Akhilesh Shende.





## Extension Activities



### **Chemfotech 13<sup>th</sup> September - 14<sup>th</sup> September 2017.**

Students of the department got the opportunity to show their different talents through various activities and competitions like Rangoli making, Poster making, Model making. They expressed their views on Chemistry through Debate and Elocution Competitions. Undergraduate students showed their acting skills by playing acts on Chemistry. The students of M.Sc. Learned to manage, coordinate and organize such complex functions of their own.

**Placement Mela** was organized by MVM College from 14<sup>th</sup> March – 15<sup>th</sup> March 2018. Students from the Chemistry department promptly utilised this opportunity provided by the MVM college, Bhopal. Many students got recruited in different companies. The aim of this mela was to act as a mediator between young talent and company looking for suitable manpower.



An **open Career Fair** was organized by the Institute from 27<sup>th</sup> February – 28<sup>th</sup> February 2018. Students from different Institutes of Bhopal, registered themselves in miscellaneous companies and also got selected. It was really a wonderful steps towards the bright future of students

**Placement activity** was organized by the Institute on 29<sup>th</sup> January 2018. Various companies like Lupin Pharmaceuticals, Inc , Concentric P& P In-fotech., Majestic Basmati Rice Ltd. Mandideep selected talented students from the department.



Students and faculty members participated in **Bhartiya Sanskriti Gyan Pariksha** held on 17<sup>th</sup> April 2018. The aim of this exam was to aware the students and teachers about the importance of rich Heritage and Culture of India. This innovative step provided opportunity of interaction between the people of different communities and also inhaled the knowledge.

**Fresher & Farewell function** In the history of IEHE, only the students of the chemistry department organize the fresher and farewell party together for M.Sc. Previous and Final. This has a unique combination of three generations. They bid the farewell to their seniors with drops of tears in the eyes and also glitter on their faces wishing them a prosperous future. Whereas the seniors shared their valuable experiences of past years in the college



एयसीलेंस कॉलेज में  
केमिस्ट्री डिपार्टमेंट के  
स्टूडेंट्स ने सीनियर्स  
को दी रॉकिंग विवार्ड

**सीनियर्स के लिए फैकल्टी ने गाया-  
मुस्कुराने की वजह तुम हो... गीत**



**Farewell function** was organized by students for B.Sc. Final year students on 12<sup>th</sup> April 2018. The floor was burning with their enthusiastic performances. What not they did? Dance, dramas, singing, jokes, shayaris etc. Final year students were given with wishes by juniors and invaluable blessing of teachers.

सीढिया की जरूरत उन्हें है , जिन्हे छत तक जाना है ...!  
हमारी मन्जिल तो आसमान है ...रास्ता भी खुद ही बनाना है ...!