


REPORT ON LAB SAFETY WORKSHOP

“BE AWARE, TAKE CARE! PRACTICE SAFE SCIENCE”


**Sanjay Ghodawat University, Kolhapur**
Established as a State Private University under Govt. of Maharashtra Act no. XL dated 3rd May 2017
Empowering Lives Globally !

One Day Workshop on Lab Safety

**BE AWARE, TAKE CARE!
PRACTICE SAFE SCIENCE**

Department of Chemistry, School of Science

22nd January, 2019



Chief Resource Person
Dr. G.S. Grover
(Former Chief Scientist & Head, Safety Management, CSIR- NCL, Pune)
(Task Group Chair, IUPAC Safety Training Program- India)
Theme of talk: Chemistry Lab Safety

Fire Safety Expert
Mr. Dinkar Kamble
(Chairman, Disaster Life Guard Society, Kolhapur)
Demo: Fire Safety Management

Dr. S.N. Chavan
Co-ordinator

Dr. A.D. Sawant
Dean, School of Science

Report Prepared by,
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Report on the workshop on lab safety in chemistry lab

22nd Jan, 2019

Theme: 'BE AWARE, TAKE CARE! PRACTICE SAFE SCIENCE'

1. Inauguration Function (11.30 am – 1.30 pm)

The workshop was organized by Department of Chemistry, School of Science, Sanjay Ghodawat University for students of university on 22nd Jan 2019. The theme of program was “BE AWARE, TAKE CARE! PRACTICE SAFE SCIENCE”. The main objective of this event was to create awareness about safety in chemistry lab among the students from School of Science of Sanjay Ghodawat University, Kolhapur. On this occasion, we were invited BSc/MSc students, faculties/lab assistant from Jaysingpur College, Jaysingpur and DKASc College Ichalaranji to attend the workshop on safety precautions in chemistry lab.

The Inauguration ceremony saw resource person Dr. G. S. Grover (Task Group Chair, IUPAC Safety Training Program Regional Project India) Former Chief Scientist & Head, Safety Management, CSIR- National Chemical Laboratory, Pune. The occasion was graced by

Prof. Dr. M. T. Telsang (Dean of Academics), Sanjay Ghodawat University, Dr. A. D. Sawant (Dean, School of Science), Prof. S. R. Patil, Prof. S. S. Joshi, Dr. S. N. Chavan (Programme Co-ordinator) and faculties from School of Science, SGU and other colleges.

Speaking on the occasion, Dr. A. D. Sawant given welcomes speech and introduces chief guest. Prof. Dr. M. T. Telsang (Dean of Academics) really appreciated and congratulated for organizing such type of event in university. He said Lab safety workshop will bring the awareness in the student while conducting practical's in chemistry lab. Hence it becomes extremely important to shape them competent to become responsible chemists.



Felicitation of the guest

2. Seminar and meeting with Dr. G. S. Grover: He has invited as resource person to talk about lab safety in chemistry lab. He is (Task Group Chair, IUPAC Safety Training

Program Regional Project India), Former Chief Scientist & Head, Safety Management, CSIR-National Chemical Laboratory, Pune and he has deep experience to give seminar about lab safety in all over India.

Meeting with Dr. G. S. Grover:

Before the program in auditorium, we, member of the school of science with Prof. Dr. M. T. Telsang (Dean of Academics) held meeting with Dr. G. S. Grover for taking suggestion regarding creation of new chemistry lab, existing lab structure and chemistry lab waste management.

The minutes of meeting as per below.

Participants: Prof. M T Telsang (Dean Academics), faculties from chemistry department Prof. S R Patil, Prof. S Joshi, Dr. Santosh N Chavan (workshop Coordinator), Sangram A Salve, Dr. Pallavi D Bhange, Dr. Utkarsh U More, Dr. Shivajee S Jadhav, Dr. Trushant Lohar, Dr. Anand D Sawant (HoD, Chemistry Department), Mr. S S Salgare (HoD, Mathematics Department), Dr. S A Jagadale (Physics Faculty), R P Pawar (Physics Faculty), Dr. Vishal Burungale (Physics Faculty), Dr. B B Patil (Physics Faculty), Dr. S T Patil (HoD, Physics), Jaypal S Lohar (Chemistry lab assistant), Vijay Kekare (Chemistry lab assistant), Rahul Desai (Chemistry office assistant).

Meeting started with welcome of Dr. G. S. Grover by M. T. Telsang (Dean of Academics).

- ❖ Dr. Grover was informed about Sanjay Ghodawat University and Chemistry Deparemnt.
- ❖ Before meeting Dr. was visited chemistry lab where student were working and he has noticed following points-
 - ✓ Stuent's weared the aprons, shoes etc.
 - ✓ Lab were equipped with ventilation system and fume hood.
 - ✓ Noticed that safety chart displayed in the lab.
 - ✓ Lab has first aid box
- ❖ In a meeting for safety precautions majors taken by department of chemistry were discussed and includes following points
 - ✓ Minimization of waste generation
 - ✓ Avoiding of throwing the chemicals into the sinks.
 - ✓ Collection of generated solid and liquid waste.
 - ✓ Collected broken glass can be recycled
 - ✓ Recycling of volatile solvents
 - ✓ Monthly lab cleaning exercises

- ✓ **Preparation of lab safety manual**
- ❖ Dr. Grover laboratory and suggested following points
 - ✓ Fire extinguisher should be kept near the door
 - ✓ There should be separate storage space for chemical
 - ✓ Gas cylinders should be outside of the laboratory (Currently we are practicing it).
- ❖ It was informed to all, to minimize waste by scaling down the experiments.
- ❖ How to manage / dispose of waste.
- ❖ Dr. Grover suggested to contact state environment pollution board regarding
- ❖ While constructing the new lab he suggested
 - ✓ All chemistry lab should be located at nearer to each other.
 - ✓ It should have good ventilation, light exposure.
 - ✓ It should have safety features like eye wash shower.
 - ✓ It should have chemical resistant pipes and sinks.

Meeting concluded with greeting. And moved to seminar hall.



Meeting with all school of science staff and dean academics with Dr. Grover

Seminar by Dr. G. S. Grover:

Dr. Grover given seminar on lab safety from 11.30 am to 1.30 pm. He has engaged the 422 participant during his talk with same excitement from start to end. He introduced the audience about how to take care in the chemistry lab while doing work. He has created truly awareness among participants with about following instructions.

- ✚ Report all accidents, injuries, and breakage of glass or equipment to instructor immediately.
- ✚ Keep pathways clear by placing extra items (books, bags, etc.) on the shelves or under the work tables. If under the tables, make sure that these items can not be stepped on.
- ✚ Long hair (chin-length or longer) must be tied back to avoid catching fire.

- ✚ Wear sensible clothing including footwear. Loose clothing should be secured so they do not get caught in a flame or chemicals.
- ✚ Work quietly — know what you are doing by reading the assigned experiment before you start to work. Pay close attention to any cautions described in the laboratory exercises
- ✚ Do not taste or smell chemicals.
- ✚ Wear safety goggles to protect your eyes when heating substances, dissecting, etc.
- ✚ Do not attempt to change the position of glass tubing in a stopper.
- ✚ Never point a test tube being heated at another student or yourself. Never look into a test tube while you are heating it.
- ✚ Unauthorized experiments or procedures must not be attempted.
- ✚ Keep solids out of the sink.
- ✚ Leave your work station clean and in good order before leaving the laboratory.
- ✚ Do not lean, hang over or sit on the laboratory tables.
- ✚ Do not leave your assigned laboratory station without permission of the teacher.
- ✚ Learn the location of the fire extinguisher, eye wash station, first aid kit and safety shower.
- ✚ Fooling around or "horse play" in the laboratory is absolutely forbidden. Students found in violation of this safety rule will be barred from participating in future labs and could result in suspension.
- ✚ Anyone wearing acrylic nails will not be allowed to work with matches, lighted splints, bunsen burners, etc.
- ✚ Do not lift any solutions, glassware or other types of apparatus above eye level.
- ✚ Follow all instructions given by your lab instructor.
- ✚ Learn how to transport all materials and equipment safely.
- ✚ **No eating or drinking in the lab at any time!**

Participants of the workshop:

Total **422**

Approx. **Male 60% Female 40%**

Participated Colleges

- Jaysingpur College, Jaysingpur, Kolhapur, Maharashtra (**129**)
MSc 25
BSc 104
- DKASc College, Ichalkaranji, Kolhapur, Maharashtra (**137**)
BSc

- School of Science, Sanjay Ghodawat University Kolhapur **(156)** Chemistry
MSc I 70
MSc II 15
BSc 30
- Other Department from SGU (Physics, Mathematics, Engineering)
(41)



Glimpses during talk by Dr. G. S. Grover

3. Fire Safety Demo by Mr. Dinkar Kamble,

He is Fire Safety Demo Trainer, Disaster Risk Life Guard Society, Kandgoan, Kolhapur. He has given more than 800 demo for fire and disaster management in various colleges and universities. He has saved more than 2000 lives during rescue operation at different situations. Here at SGU he has given demo to control fire before students.



Fire Safety Demo by Mr. D. Kambale

4. Valedictory Program:

In the Valedictory Function, Mr. D. ambale was honored by Dr. A.D. Sawant and Prof. S. R. Patil. Studetns interacted with guest and asked their queries and appreciated for tal and demo. Dr. S. N. Chavan (convener of the workshop) deliver vote of thanks to all participants. Guest, Staff, students and faculties.



Felicitation of Mr. D. Kambale



Vote of thanks by Dr. S. N. Chavan (Workshop Coordinator)



Interaction with Students