

The poster features a central white area with a black border. At the top left, there are three red diagonal lines and a blue and red double arrow pointing right. At the top right, there is a logo with 'SH' in a green box, 'SACRED HEART COLLEGE' text, and a small crest. Below this is the text 'DEPARTMENT OF CHEMISTRY' in red. The main title 'WORKSHOP ON MICROSCALE EXPERIMENTS IN CHEMISTRY' is centered in large blue letters. Below the title is a photograph of a microplate with a pipette tip dispensing liquid into one of the wells. Underneath the photo, the dates and times '14 - 19 AUGUST 2017' and '9.30 AM - 3.30 PM' are written in red. At the bottom left, there is a blue wavy line. At the bottom center, there are two blue and red double arrows pointing left. At the bottom right, there are three red diagonal lines.

SH SACRED
HEART
COLLEGE
Autonomous

DEPARTMENT OF CHEMISTRY

**WORKSHOP
ON
MICROSCALE
EXPERIMENTS IN
CHEMISTRY**

**14 - 19 AUGUST 2017
9.30 AM - 3.30 PM**

Report

Report of the workshop on Microscale Experiments in Chemistry organized by Department of Chemistry on 14-19 August 2017.

Micro-scale experiments are fast spreading analytical methods in practical chemistry, working with small quantities of chemicals and simple equipments. Some attractions of these techniques include; cutting down of usage of chemicals, environment friendly and less time consuming experiments and Miniature labware and high quality skills.

The department of chemistry is following the conventional laboratory procedures for undergraduate and post-graduate courses. These procedures are usually time consuming and incur a large expenditure. The rising cost of chemicals and decreased flow of funds are causing great concerns to the chemistry teachers. In this circumstance, micro-scale experiments in chemistry provides an alternative approach for doing practicals in an environment friendly manner, which reduces the usage of chemicals and expenses considerably.

Hence, ***the objective of the workshop is to impart training in microscale experiments in chemistry for students and teachers, with an aim to introduce an innovative practical method for UG programme.***

Resource Persons:

Dr. S. Murugan (Retired Professor, ST Hindu College, Nagarcoil) &

Day 1: Inauguration & Two-Burette Titration

Fr. Prasant Palackkappillil CMI inaugurated the workshop. In the inaugural address Fr. Principal appreciated the efforts of the department to introduce greener methods in chemistry in tune with the green policy of the college.

In the first day of the workshop Prof. S. Murugan introduced the microscale method of titration – Two burette titration. The experimental demonstration was held in the laboratory.

Day 2: Inorganic Qualitative Analysis

Second day of the workshop started with a review of the first day practicals and evaluation of the results. The results showed close agreement with the results obtained from the conventional titration method.

The resource person Dr. Murugan explained the microscale methods for qualitative inorganic analysis. The demonstration was particularly focused on the intergroup separation of cations in which the second group precipitation is done with sodium sulphide.

Day 3: Qualitative Organic Analysis

The resource person demonstrated the micro-scale methods in organic analysis in the third day of the workshop. The participants individually performed all the experiments in the laboratory. The faulty members were trained effectively so that the qualitative organic analysis can be implemented in the UG syllabus.

Day 4: Quantitative Separation Techniques

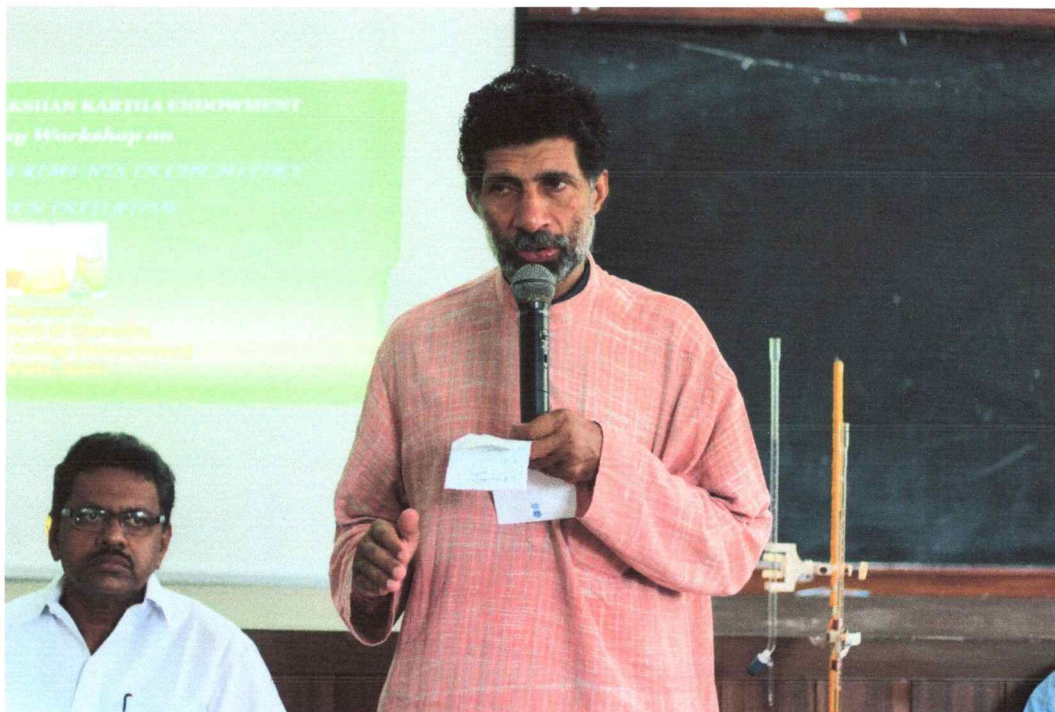
In the fourth day of the workshop microscale methods for the quantitative separation were discussed. Solvent extraction method was particularly demonstrated.

Day 5: Lassaigne's extract Preparation and Reactions

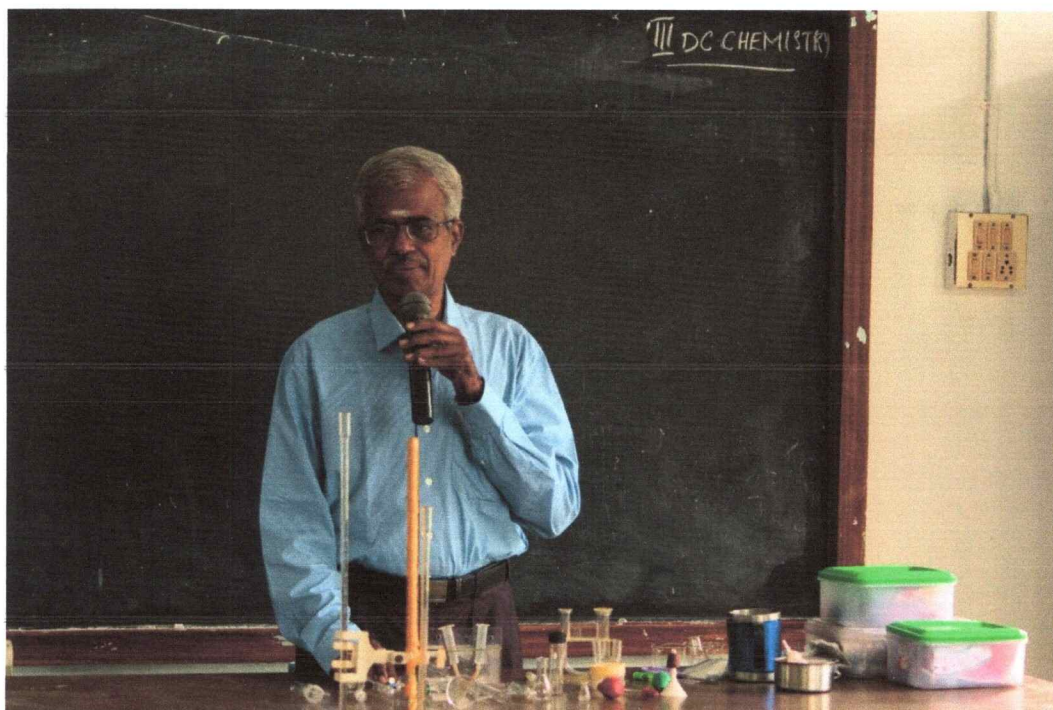
Extensive review of the experimental methods were done in the last day. The results were compared with conventional techniques. It was observed that the microscale qualitative analysis saves time and chemicals, without compromising the accuracy of results.

Dr. Ignatious Abraham, Co-ordinator of the workshop thanked the resource person and participants.

PHOTO:



Rev. Dr. Johnson X Palackappillil CMI inaugurating the Microscale Experiments Workshop (14/08/2017)

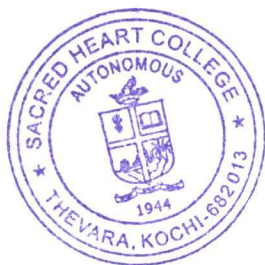



Prof. S. Murugan Demonstrating Micro-scale Methods in Chemistry (14/08/2017)



LIST OF PARTICIPANTS

1. Dr. Joseph John
2. Dr. K. B. Jose
3. Dr. Joseph T Moolayil
4. Dr. Thommachan Xavier
5. Dr. V. S. Sebastian
6. Dr. M. George
7. Dr. Jorphin Joseph
8. Dr. Franklin J
9. Dr. Jinu George
10. Dr. Grace Thomas
11. Dr. Ignatious Abraham
12. Midhun Dominic C D
13. Senju Devassykkutty
14. June Cyriac
15. Dr. Ramakrishnan S
16. Dr. Abi T G




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