

B. K. M. Science College, Valsad

BEST PRACTICE-1

TITLE OF THE PRACTICE:- "CURRENT TRENDS AND ADVANCES IN CHEMICAL SCIENCE"

Chemistry is important in every life. Many of the changes, observed in the world around, are caused by chemical reactions. The society of chemistry wants to understand how the chemical sciences may evolve to improve the everyday lives of people in the next ten to twelve years. Chemical Science has the potential to face many of the world's greatest challenges.

OBJECTIVE OF THE PRACTICE:

- To create collaborative links between academics and professional practitioners and their workplaces, aiming at long- term sharing of knowledge and discussion of highly current trends and advances in chemical science.
- To provide a platform to the academic scientist and researchers to exchange and share the experiences in chemical science.
- To highlight the technological application
- To provide opportunities for discussion and information sharing platform for researchers from various organizations.
- To bring awareness of trends and challenges in chemical industries to the attending delegates, researchers and students.
- To provide exposure to the researchers in the field of chemical science.
- To bring together leading chemist, medicinal chemist, pharmacologist, biotechnologist and other allied professionals to discuss and present the latest important development in chemical science.

THE CONTEXT:

Nowadays chemical science has emerged as a basic and latest tool for all kinds of technical researches, education and allied subjective collaborative work among various leading branches of the science. To meet this advancement, the department of chemistry of B K M Science College, Valsad has organized a national level conference entitled " Current Trends and Advances in Chemical Science.' This conference will stimulate the presenters as well as the invited faculties to have thorough knowledge of the chemical science and the changes which have been occurring in it. Moreover, this will lead in opening the doors for vast research areas and will make the future more advance scientifically. The aim of conference is to provide the platform for discussing and debating the trends and advances in chemical science research through invited talks, oral presentation and poster presentation.



Dr. Anu
Principal,
B.K.M. Science College,
Valsad, Gujarat, India.

THE PRACTICE DATE: 12-01-2020

A one day national conference has been organized by college sponsored by GUJCOST and UFFIZIO on 12/01/2020. The conference was inaugurated by the president Shri Chandrakant B. Desai and the invited guests were honoured. Moreover, all the delegates, guests and participants were warmly welcomed by the principal Dr. Vikas Desai. In addition, all the dignitaries have released the abstract and souvenir.

In the conference, Dr. Anamik Shah (Vice chancellor, Gujarat Vidyapith) delivered the key note address of the conference. He emphasizes on the awareness of the advancement and trends in chemical science for the students as well as the researchers. He also informed students regarding different overseas scholarships like Humboldt scholarship, Marie Curie Scholarship etc.

After that there was a technical session in which there were three talks. The detail of that is as follow:

Invited Talk-1(11:00 am to 11:45 am)

Chairman: - **Dr. I. N. Patel** (Associate Professor, B.K.M. Science College, Valsad)

Speaker: - **Dr. P.A.Hassan** (Chemistry Division, Bhabha Atomic Research Centre -Mumbai)

Topic: - Room temperature Supercooled Solvent: A new Matrix for amphiphilic self assembly

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Invited Talk-2 (11:45 am to 12:30 pm)

Chairman: - **Dr. G. M. Malek** (Head, Chem. Department. Navyug Science College, Surat)

Speaker: - **Dr. Radha V. Jayaram** (Prof. & Head, Department of Chemistry ICT, Mumbai)

Topic: - Catalysis – a vital tool for green processes and clean environment


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Invited Talk-3 (12:30 pm to 13:15 pm)

Chairman: - **Dr. Paresh S. Patel** (Associate Professor, VNSGU, Surat)

Speaker: - **Dr. Nilesh Mistry**, Lonsen Kiri Chemical Ltd, Vadodara

Topic: - Unit Process like Alkylation, Nitration, Sulphonation, Helogination and other reactions and operation in industries

Oral Presentation for Research Students

The oral presentation was held at the college campus in which Dr. Shailesh Zala (Former Vice Chancellor, Bhavnagar University) was the chairman and Dr. G.M. Malek (Head of the chem..dept., Navyug Science College, Surat) was the jury member. In that there were total 18 students.

Oral Presentation Winner :

First Prize : **Vatsal M. Patel** (J.N.M. Patel Science College, Surat)

Second Prize : **Jankiben J. Patel** (VNSGU, Surat)

Third Prize : **Ruby Kharwar** (ARIBAS New Vallabh Vidyanagar)

Poster Presentation for Research Students

The poster presentation of the students was at the college entrance ground. In that session Dr. Bhasker Raval (Former Pro vice chancellor, VNSGU, Surat) was the chairman and Dr. P.S. Patel (Associate Professor, VNSGU, Surat) and Dr. M. M. Mehsuirya (Associate Professor, Gujarat University, Ahmedabad) were the jury members. There were total 110 participants.

Poster presentation for M.Sc. Students

The poster presentation for M.Sc. students was at the conference hall in that Dr. Mitesh H. Desai (Associate Prof. B. K. M. Science College, Valsad) was the chairman and Dr. Jignesh S. Desai (Associate Prof., Arts and Science College, Bilimora) and Dr. Bhadresh Sudani (Associate Prof. Govt., Eng. College, Valsad) were the jury members. There were total 26 participants.

Poster Presentation Winner :


First Prize : **Tushar K. Karkar** (J.N.M. Patel Science College, Surat)

Second Prize : **Jaimin B. Shah** (Govt. Com. & Science College, Dahej)

Third Prize : **Vijay I. Patel** (J.N.M. Patel Science College, Surat)

The success of the conference can be seen by the feedback which was taken from the participants i.e. 95% commented positively on the conference. Moreover, the suggestion was also taken from the participants for more future conferences that would provide them a good exposure.



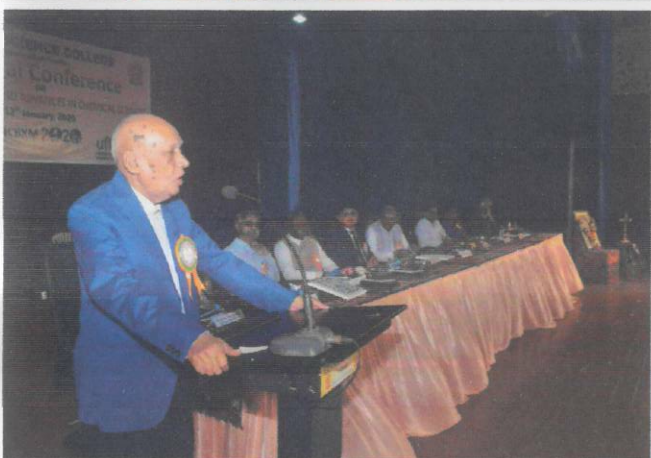
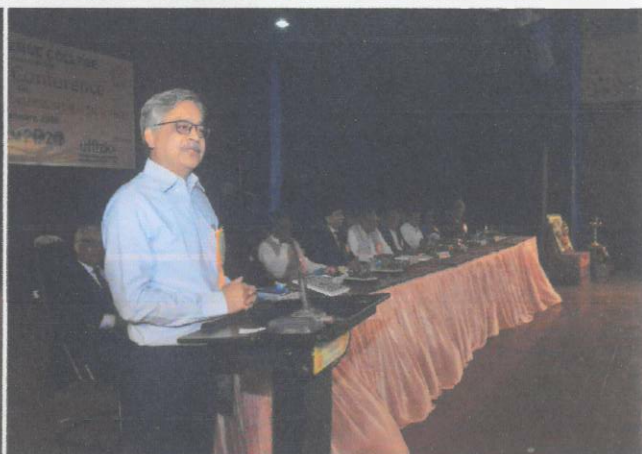
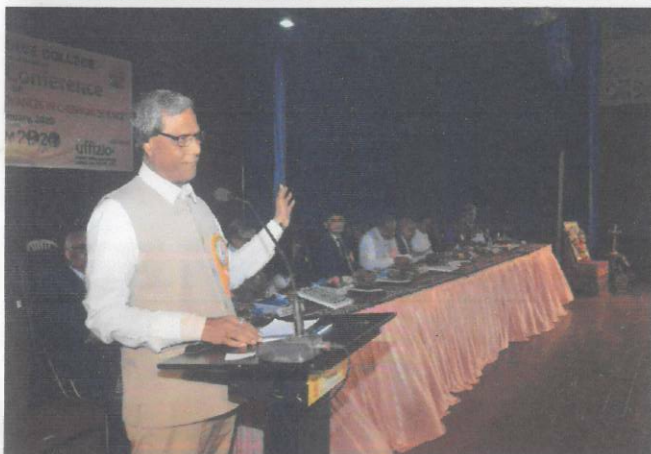
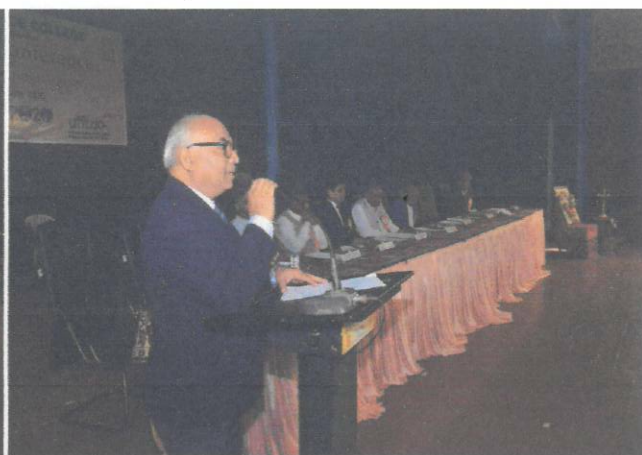

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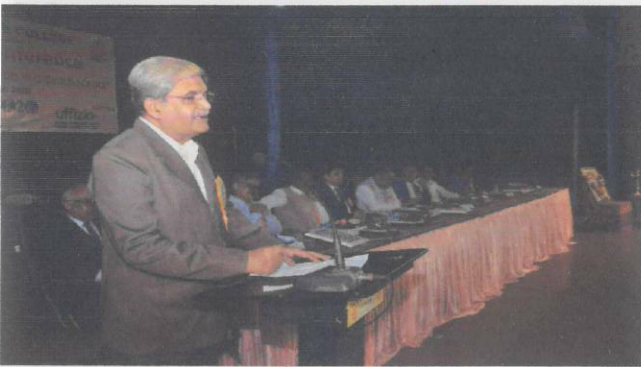
Conference Success -Number of Attendees

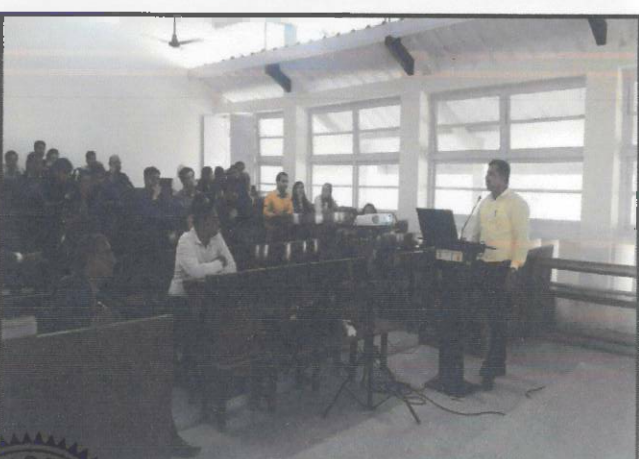
Number of Participant Registered	528
Number of Abstracts Accepted	128
Number of Oral Presentation by Research Students	18
Number of Poster Presentation by Research Students	110
Number of Poster Presentation by M.Sc. Students	26

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B. K. M. Science College, Valsad

BEST PRACTICE – 2

TITLE OF THE PRACTICE: SOAP MAKING

Soap is a salt of a fatty acid used in a variety of cleansing and lubricating products. In a domestic setting, soaps are surfactants usually used for washing, bathing, and other types of housekeeping. In industrial settings, soaps are used as thickeners, components of some lubricants, and precursors to catalysts.

When used for cleaning, soap solubilizes particles and grime, which can then be separated from the article being cleaned. In hand washing, as a surfactant, when lathered with a little water, soap kills microorganisms by disorganizing their membrane lipid bilayer and denaturing their proteins. It also emulsifies oils, enabling them to be carried away by running water.

Soap is created by mixing fats and oils with a base, as opposed to detergent which is created by combining chemical compounds in a mixer.

Humans have used soap for millennia. Evidence exists of the production of soap-like materials in around 2800 BC in ancient Babylon

OBJECTIVE OF THE PRACTICE:

To create more employment opportunities with less investment.

To make the students more skilled for such task.

To mobilize and ensure optimum utilization of untouched resources of the country.

To ensure equitable distribution of income and wealth.

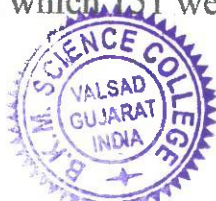
To provide employment.

To achieve self-sufficiency.

To provide the latest techniques with adequate resources.

THE CONTEXT:

A clear plan is essential for success as an entrepreneur. It will help one to map out the specifics of the business and discover some unknowns. Keeping in mind, the department of Chemistry of B K M Science College has arranged seven days workshop on 'Soap Making' consisting of three hours with cooperation of the coordinator Dr. P. R. Patel and Dr. V. A. Champaneri with the head of the department Prof. K .T. Parekh and the principal Dr. Vikas Desai. For the workshop, Mr. Nitinhai Prajapati, was invited to give the knowledge of different steps of soap making like to cook, to stir, to add, to cut etc. Moreover, he has given information about different types of soaps like Glycerin Soap, Transparent Soap, Liquid Soap. To make the theoretical knowledge more concrete, the students had factory visit, too. In that workshop there were total 256 last year students among which 151 were boys and 141 were girls.



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THE PRACTICE : DATE : 27.07.2019 TO 05.08.2019

Date	Batch No.	Roll No.	No. of Students	Duration
29/07/2019	01	1 to 15	15	3 hours
29/07/2019	02	16 to 30	15	3 hours
30/07/2019	03	31 to 45	15	3 hours
30/07/2019	04	46 to 60	15	3 hours
31/07/2019	05	61 to 75	15	3 hours
31/07/2019	06	76 to 90	15	3 hours
01/08/2019	07	91 to 105	15	3 hours
01/08/2019	08	106 to 120	15	3 hours
02/08/2019	09	121 to 135	15	3 hours
02/08/2019	10	136 to 150	15	3 hours
02/08/2019	11	151 to 165	15	3 hours
02/08/2019	12	166 to 180	15	3 hours
03/08/2019	13	181 to 195	15	3 hours
03/08/2019	14	196 to 210	15	3 hours
03/08/2019	15	211 to 225	15	3 hours
03/08/2019	16	226 to 240	15	3 hours
05/08/2019	17	241 to 256	16	3 hours

To make the program success, the students were taken to Geeta Soap Factory, Gundlav, Valsad to have the actual experience of soap making process and they also get the guidance from the proprietor Mr. Nitinbhai Prajapati, of how to start small scale business, too. With that, we can say that the institution's aim was successfully achieved.



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