# Dr. Ambedkar College, Deekshabhoomi, Nagpur

# "National Webinar"

Organised by

# **Post Graduate Department of Chemistry**

**Under the Aegis of** 

# ACS International Student Chapter, DACN

Resource Person: 1. Prof. Sheshanath V. Bhosale
2. Dr. Vinod Kumar Tiwari
11th September 2021

# Dr. Ambedkar College, Deekshabhoomi, Nagpur Department of Chemistry

### Notice

Date: 09.09.2021

Department of Chemistry under the aegis of ACS International Student Chapter, Dr. Ambedkar College, Deekshabhoomi, Nagpur has organized a National Webinar via Zoom meeting on 11th September 2021 from 12 pm onwards.

All the B.Sc., M.Sc. Students, research scholars and faculty members are requested to attend the program.

(Prof. Dr. D. Y. Panhekar)

HOD, Chemistry

Head, ACS Chapter DACN

(Dr. Mrs. B. A. Mehere)

Principal

**Image 1: Notice of the Webinar** 

# **REPORT**

Under the aegis of American Chemical Society (ACS) International Student Chapter, DACN; Department of Chemistry organized a Virtual National Webinar for UG and PG Students with Chemistry as one of core Subject, on 11th September 2021 via Zoom meeting app. For this program, two Resource persons who added a spark in the young minds were Prof. Sheshanath V. Bhosale, from Goa University and Dr. Vinod Kumar Tiwari from Banaras Hindu University. A responsibility to motivate & guide Students was ably taken by a resource person. The purpose of this webinar was to create awareness about the importance of current research trends in chemical sciences and its usefulness in day-to-day life. As, Research in any area plays the crucial role in developing and broadening the knowledge in that particular area. Around 95+ participants, including faculty members, teaching staff, UG and PG students actively participated in this webinar.

The entire webinar program was conducted in two sessions. Webinar was hosted by ACS (International Student Chapter) Executive Secretary Ms. Swarnima Burande. The webinar had been started by the program welcome remarks delivered by the respected Principal of the college Dr. Mrs. B. A. Mehere mam. She mentioned the importance and benefits of chemistry to the human kind.

The Introductory remark as well as overview about this National Webinar was proposed by Prof. Dr. Mrs. D. Y. Panhekar Mam, Head & PG Coordinator, Faculty advisor-American Chemical Society (ACS) International Student Chapter. Continuing this, Ms. Anisha Rokade, vice-president of ACS (International Student Chapter) gave an introduction of the first resources person of the webinar Professor Sheshanath V. Bhosale, UGC-Professor (FRSC, FMASc, ARC-FF, ARC-APD, MRACI), Goa University. Sir has worked in several scientific and research organizations in various countries that includes Germany, Switzerland, Australia and currently he is working as a UGC-Professor in School of Chemical Sciences, Goa University, India. To mention, Sir has published 240 peer reviewed publications with 90% of publications in A\*/A journals including 25 cover page articles and more than 6800 overall citations with 1 book and 9 book chapters on his credit along with invited talk/key/plenary lectures in ~100 conferences. Prof. Bhosale Sir supervised 9 PhD students and guided 01 Master's as well as 04 honors students during their research project. He delivered his talk in this webinar on the topic 'Concepts Transfer from Nature'.

The key findings in Prof. Sheshanath Bhosale Sir's talk were:

- Mimicking natural concepts using supramolecular self-assembly of small organic molecules
- Supramolecular chemistry: Utilizing concepts from Nature, how supramolecular chemistry helps to carry out most operations essential to life, photosynthesis, respiration, etc.
- PRC (Photosynthetic Reaction Centre): Nanoscale cavities capable of molecular recognition. i.e., few artificial systems have been used in last 03 decades for the entrapment and ordering of molecules

• Functional yacto-wells for biological application, Naphthalene diimides, Photoluminescent material, Porphyrin Nanostructures, Dyes for solar cell application.

He also mentioned the upcoming research trends and the biological/pharmacological significance of Vanadium pentoxide in the treatment of breast cancer, which may open a new door in medical sciences, too.

Session was a great source of learning. After the completion of this first lecture session, Question Answer session was conducted by Ms. Indrakshi Surpatne, Joint Secretary, ACS (International Student Chapter), for clearing the ideas of students upon this subject. At the end of the first session Dr. Ratnnadeep Sawant Sir proposed a formal vote of thanks.

The second session of the webinar was delivered by the second resource person Dr. Vinod Kumar Tiwari on the topic 'Synthetic Chemists and Our Society'. Ms. Janki Paravadia, Joint Secretary, ACS Intl. Student Chapter, DACN introduced the speaker. Sir is working as a Professor in Department of Chemistry, Banaras Hindu University, Varanasi. Dr. Tiwari Sir has more than 140 publications, 8 patents, 19 book chapter & winner of many national and International Award under his credit. His research area is mainly focused on Carbohydrates. The focus of the webinar was on human health, organic compounds and its relationship with human behaviour.

The key points of the second session chaired by Dr. Vinod Kumar Tiwari were:

- Synthetic Chemistry has a great role for making our life easy, healthy and pleasant.
- Chemistry has enormous potential to construct diverse simple to Complex glycol-conjugates including glycol-dendrimers of wide applications.
- Molecular structure of organic compounds as medicine like Paracetamol, Aspirin, Diclofenac, Brufen, Quinine, Vanillin etc.
- Discussion on what will be the safest antibiotic useful for the treatment of number of bacterial infections like Chloramphenicol.
- Discussion on highly expeditious synthesis of bicyclic Imino-sugar.
- He added about the great discoveries by Thomas Kealy & Peter Pauson and the Development of sugar-based antitubercular agents.
- Carbohydrates containing molecule have been recognised as an attractive scaffold in a drug discovery and development.
- He gave an insight on how chemistry plays an important role in synthesizing life-saving drugs, which has opened many ways in understanding drug delivery systems.

The session was very informative for every participant. The session was followed by the Question answer round by Ms. Indrakshi Surpatane. The formal vote of thanks was given by Mr. Parag Panse sir by his heart-warming words. Mr. Anuj Jain, Ms. Anisha Rokade, Mr. Himanshu Bathav, Mr. Himanshu Dhawade, Ms. Vrushali Khadatkar, Ms. Srushti Wandhare, Ms. Anushka Chinchmalatpure, Ms. Ankita Patel, Ms. Ritu Patle, Ms. Swarnima Burande, Ms. Sneha Burse, Ms. Ankita Khonde, Ms. Shriya Thakre, Ms. Janhvi Gawande and others worked hard for the success of this webinar. The faculty members of the Department of Chemistry Prof. Dr. V. M. Shivankar Sir, Dr. Mrs. D. M. Borikar, Dr. N. G. Telkapalliwar, Dr. Ratnnadeep Sawant & Mr. Parag Panse graced the occasion with their valuable inputs.









# Dr. Ambedkar College, Deekshabhoomi, Nagpur

Department of Chemistry

ACS International Student Chapter

Organizes

National Webinar



## Dr. Vinod Kumar Tiwari

Professor, Organic Chemistry
Department of Chemistry, Institute of Science
Banaras Hindu University, Varanasi
Topic: Synthetic Chemists and Our Society



## Prof. Sheshanath Bhosale

UGC-Professor, FRSC, ARC-FF, ARC-APD, MRACI School of Chemical Sciences, Goa University, Goa Topic: Concept Transfer From Nature

#### Patrons:

Hon'ble Bhante Arya Nagarjun Surei Sasai

Chairman P. P. Dr. Babasaheb Ambedkar Smarak Samiti, Nagpur

#### Dr. Sudhir Fulzele

Secretary P. P. Dr. Babasaheb Ambedkar Smarak Samiti, Nagpur

#### Chairman

Dr. Mrs. B. A. Mehere

Principal, Dr. Ambedkar College, Deekshabhoomi, Nagpur

# Register Now

## https://forms.gle/3kaEQ1C15CGfB3Jp6

FEEDBACK

200m

11th Sept. 2021, Saturday

Time: 12.00 pm onwards

#### Convener:

Prof. Dr. Deepa Panhekar

Head-Department of Chemistry,

Faculty Advisor-ACS International Student Chapter, DACN https://forms.gle/ubkNBYN9oMeVAxri9

#### **Organising Secretary:**

Dr. Ratnnadeep Sawant

Asst. Prof., Department of Chemistry Mr. Parag Panse

Asst. Prof., Department of Chemistry

## https://us06web.zoom.us/j/88341734428?p wd=ekVTekV3OThiTmE0NDBSdjcwQ0Vidz09

Meeting ID: 883 4173 4428

Passcode: 757000

#### Joint Organizing Secretary:

Anuj Jain, President, ACS Chapter, DACN Himanshu Bathav, Secretary, ACS Chapter, DACN

**Image 2: Brochure of the National Webinar** 

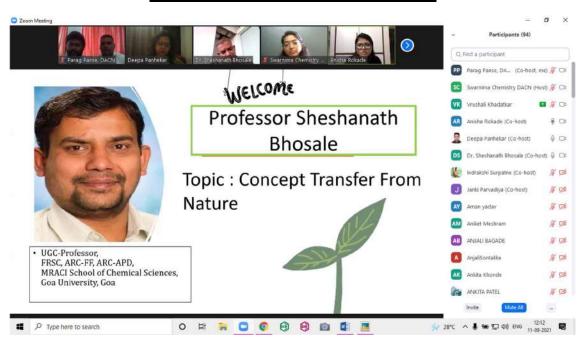
**Registration link:** https://forms.gle/3kaEQ1C15CGfB3Jp6

Feedback form link: https://forms.gle/ubkNBYN9oMeVAxrj9



Image 3: Resource Persons, ACS Team Members, faculty members along with the Students Participated in this webinar.

# Session 1: 'Concepts Transfer from Nature' delivered by Prof. Sheshanath V. Bhosale





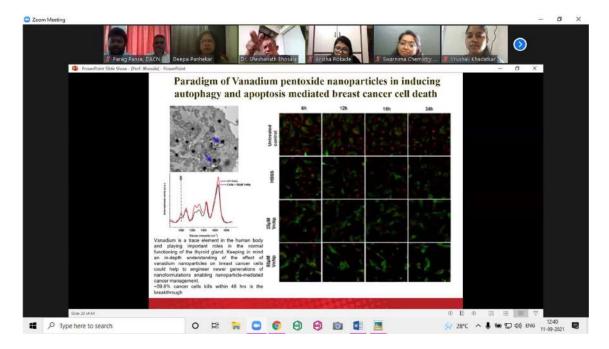
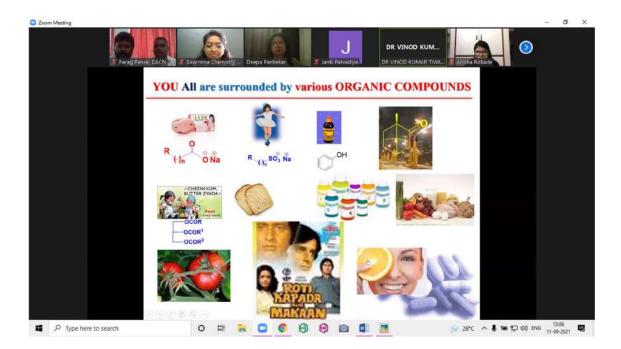
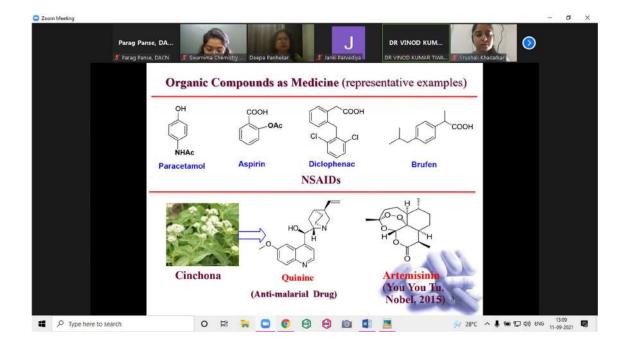


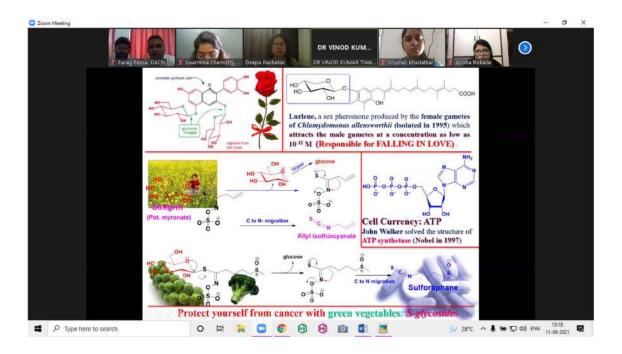
Image 4,5,6: Professor Dr. Sheshanath V. Bhosale sir explaining supramolecular chemistry

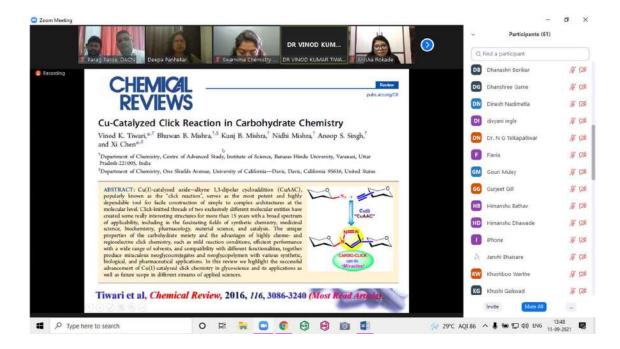
# Session 2: "Synthetic Chemists and Our Society" delivered by Dr. Vinod Kumar Tiwari













## Feedback Form/Responses for National Webinar

## NATIONAL WEBINAR

Feedback Responses

1

#### Email Address:

flavia 17travasso@rediffmail.com

Name of Participant:

Flavia Travasso

Have you attended an event like this before?

No -

Where did you learn about the event?

Other

· Was this the first time you attended one of our events?

Yes

 On a scale of 1 to 5, how helpful did you find the webinar? 1 being least and 5 being most.

5

Did you find the quiz and the event knowledgeable?

Yes

 If yes, then on a scale of 1 to 5, how knowledgeable would you rate the event? 1 being least and 5 most.

5

How was the event managed according to you as an audience?

Very well

Would you like to participate in more such events?

Yes

Overall, how would you rate the event?

5

Additional comments: -

Very informative and enriching sessions. Very good choice of resource persons. Well organized event.

### Email Address:

## poolashreechioga01@gmail.com

## Name of Participant:

Pooja Shreechippa

· Have you attended an event like this before?

Yes

Where did you learn about the event?

**Enends** 

· Was this the first time you attended one of our events?

Yes

 On a scale of 1 to 5, how helpful did you find the webinar? 1 being least and 5 being most.

4

· Did you find the quiz and the event knowledgeable?

Yes

If yes, then on a scale of 1 to 5, how knowledgeable would you rate the event?
 1 being least and 5 most.

4

How was the event managed according to you as an audience?

Very well

Would you like to participate in more such events?

Yes

· Overall, how would you rate the event?

4

Additional comments: -

Was nice opportunity for getting more knowledge about research

### Email Address:

khushigaikwad30@gmail.com

## Name of Participant:

Khushi Gaikwad

Have you attended an event like this before?

Me

Where did you learn about the event?

Teachers

· Was this the first time you attended one of our events?

Yes

 On a scale of 1 to 5, how how helpful did you find the webinar? 1 being least and 5 being most.

5

Did you find the quiz and the event knowledgeable?

Yes

If yes, then on a scale of 1 to 5, how knowledgeable would you rate the event?
 1 being least and 5 most.

5

. How was the event managed according to you as an audience?

Very well

Would you like to participate in more such events?

Yes

Overall, how would you rate the event?

5

Additional comments: -

Event is very nice, knowledgeable & very helpful. I would like to attend such a meeting again.