

CH P 408: ORGANIC CHEMISTRY PRACTICALS – I

COURSE OUTCOME:

- Enlighten the students to understand the method of organic preparation by utilizing various kinds of organic reactions,
- To understand isolation and purification of products.
- To understand oxidation reactions
- To learn substitution reaction.

Single and two stage organic preparations

1. Electrophilic substitution reactions–Preparations of p-bromoaniline, p-nitroaniline, 2,4,6-tribromophenol and picric acid.
2. Alkylations–Preparation of nerolin and N-methyl anthranilic acid.
3. Acetylations–Preparations of α -D-glucose penta-acetate and 2-naphthyl acetate.
4. Reactions with ring formation–Preparations of 1,2,3,4-tetrahydrocarbazole, 1-phenyl-3-methyl-5-pyrazolone and 7-hydroxy-4-methyl-coumarin.
5. Diazotisation reactions–Preparations of iodo, chloro and azo compounds.
6. Dehydration reactions–Preparations of cyclohexene and succinic anhydride
7. Condensation reactions–Condensations involving diethylmalonate and ethyl acetoacetate. Claisen-Schmidt, Aldol and Perkin condensation reactions.
8. Halogenation reactions-Preparation of n-butylbromide & α , β -dibromocinnamic acid.
9. Reduction reactions–Reductions of nitro compounds and carbonyl compounds.
10. Oxidation reactions-Preparation of p-nitrobenzoic acid, p-benzoquinone and adipic acid.

REFERENCES:

1. Laboratory Manual in Organic Chemistry–R. K. Bansal (New Age, New Delhi)1990.
2. Experimental Organic Chemistry–Vol. I & II–P. R. Singh et al (TMH New Delhi)1981
3. Laboratory Manual in Organic Chemistry–Dey & Sitaraman(Allied , New Delhi)1992.
4. Vogel's Text Book of Practical Organic Chemistry including Qualitative Organic Analysis - B. S. Furniss et al., (Longman - ELBS, London), 1989.
5. Manual of Organic Chemistry - Dey and Seetharaman.
6. A Text Book of Practical Organic Chemistry – A.I. Vogel, Vol.III.
8. Practical Organic Chemistry - Mann & Saunders.



Mangalore University
Mangalagangothri - 574 199



Department of Studies in Chemistry
Organises
International Webinar



on
Recent Advances in Organic Synthetic Methods (RAOSM 2021)
August 27 & 28, 2021

Chief Guests

Resource Persons



Chief Guest-Inauguration
Dr. B. Ravichandran
ROHC, ICMR, Bengaluru



Chief Guest-Valedictory
Dr. Shridhara K.
ArkGen Pharma Pvt. Ltd., Bengaluru



Prof. I. N. N. Namboothiri
IIT Bombay, India



Prof. S. K. Awasthi
University of Delhi, India



Prof. Bhisma K. Patel
IIT Guwahati, India



Prof. A. S. Achal Kumar
IIT Guwahati, India



Prof. Nonappa
Tempere University, Finland



Prof. Akshai Kumar
IIT Guwahati, India

Patron

Prof. P. S. Yadapadithaya, Hon'ble Vice Chancellor

Prof. Boja Poojary
Coordinator

Prof. Jagadeesh Prasad D.
Chairman

Prof. Kishore Kumar C. K.
Registrar

Organizing Committee

Prof. Balakrishna Kalluraya

Prof. B. Narayana

Prof. B. Vishalakshi

Dr. M. R. Maddani



• Free Registration. • e - certificates to participants
Online Platform [Click to Register](https://forms.gle/Gb9LYQ2x13F2aWPe8)

Scan QR code





Mangalore University
Department of Studies in Chemistry
Mangalagangothri – 574 199



International Webinar
on
Recent Advances in Organic Synthetic Methods (RAOSM 2021)
August 27 & 28, 2021

Program Schedule

Friday, 27-08-2021

- 10.00am-11.00am Inauguration
- 11.15am-12.15pm **Lecture 1: Prof. Irishi N. N. Namboothiri, IIT Bombay, India**
Role of Bestmann-Ohira Reagent and its Sulfone and Ester Analogues as Michael Donors and 1,3-Dipolar Precursors
- 02.00pm-03.00pm **Lecture 2: Prof. Bhisma K. Patel, IIT Guwahati, India**
Intermolecular Amination of Remote and Proximal Unactivated C_{sp³}-H Bonds Through Intrinsic Substrate Reactivity – Expanding towards a Traceless Directing Group Approach
- 03.15pm-04.15pm **Lecture 3: Prof. Nonappa, Tempere University, Finland**
Plant Triterpenoid-Based Building Blocks for Functional Organic Nanomaterials

Saturday, 28-08-2021

- 10.00am-11.00am **Lecture 4: Prof. S. K. Awasthi, University of Delhi, India**
Design, Synthesis and Antimalarial Activity of Tetraoxane Analogs
- 11.15am-12.15pm **Lecture 5: Prof. A. S. Achal Kumar, IIT Guwahati, India**
Self-assembled Nanostructured Organic Semiconductors
- 02.00pm-03.00pm **Lecture 6: Prof. Akshai Kumar A. S., IIT Guwahati, India**
Poly-Fluorinated Poly-Aromatic Hydrocarbons and Their Versatile Applications
- 03.15pm-04.15pm **Valedictory**



Department of Studies in Chemistry

**International Webinar on
Recent Advances in Organic Synthetic Methods (RAOSM 2021)**



Department of Studies in Chemistry Organises International Webinar on Recent Advances in Organic Synthetic Methods (RAOSM 2021) August 27 & 28, 2021

Chief Guests

- Chief Guest/Inauguration: Dr. B. Ravichandran, ROHC, ICMR, Bengaluru
- Chief Guest/Moderator: Dr. Shridhara K. Acharya, PCCRI, UGC, Bengaluru

Resource Persons

- Prof. I. N. N. Namboothiri, IIT Bombay, India
- Prof. Bhisma K. Patel, IIT Guwahati, India
- Prof. Nonappa, Tampere University, Finland
- Prof. S. K. Awasthi, University of Delhi, India
- Prof. A. S. Achal Kumar, IIT Guwahati, India
- Prof. Akshai Kumar, IIT Guwahati, India

Patron
Prof. P. S. Yadapadithaya, Hon'ble Vice Chancellor

Organizing Committee

- Prof. Boja Poojary, Coordinator
- Prof. Jagadeesh Prasad D., Chairman
- Prof. Kishore Kumar C. K., Registrar
- Prof. Balakrishna Kalluraya, Prof. B. Narayana, Prof. B. Vishalakshi, Dr. M. R. Maddani

Program Schedule
Friday, 27-08-2021

- 10.00am-11.00am Inauguration
- 11.15am-12.15pm Lecture 1: Prof. Irishi N. N. Namboothiri, IIT Bombay, India. Role of Bestmann-Ohira Reagent and its Sulfone and Ester Analogues as Michael Donors and 1,3-Dipolar Precursors
- 02.00pm-03.00pm Lecture 2: Prof. Bhisma K. Patel, IIT Guwahati, India. Intermolecular Amination of Remote and Proximal Unactivated C_{sp}³-H Bonds Through Intrinsic Substrate Reactivity – Expanding towards a Traceless Directing Group Approach
- 03.15pm-04.15pm Lecture 3: Prof. Nonappa, Tampere University, Finland. Plant Triterpenoid-Based Building Blocks for Functional Organic Nanomaterials

Saturday, 28-08-2021

- 10.00am-11.00am Lecture 4: Prof. S. K. Awasthi, University of Delhi, India. Design, Synthesis and Antimalarial Activity of Tetraoxane Analogs
- 11.15am-12.15pm Lecture 5: Prof. A. S. Achal Kumar, IIT Guwahati, India. Self-assembled Nanostructured Organic Semiconductors
- 02.00pm-03.00pm Lecture 6: Prof. Akshai Kumar A. S., IIT Guwahati, India. Poly-Fluorinated Poly-Aromatic Hydrocarbons and Their Versatile Applications
- 03.15pm-04.15pm Valedictory

Free Registration. * e – certificates to participants
 Online Platform: <https://forms.gle/Gb9K7Q2a13F2aWPeQ>
 Scan QR code

Department of Studies in Chemistry, Mangalore University organised an international webinar on Recent Advances in Organic Synthetic Methods (RAOSM 2021) during August 27th - 28th 2021.

Eminent Professors from various institutions across India and abroad were invited as resource speakers to deliver the lectures. Dr. B. Ravichandran, ROHC, ICMR Bengaluru was our guest of honor for the inauguration function. Prof. P. S. Yadapadithaya presided over the Inauguration function on 27th August 2021. After the Inauguration, Prof. Irishi N. N. Namboothiri, IIT Bombay delivered the first lecture on 'Role of Bestmann-Ohira Reagent and its Sulfone and Ester Analogues as Michael Donors and 1,3-Dipolar Precursors'. The 2nd lecture of the Day 1 was delivered by Prof. Bhisma K. Patel, IIT Guwahati on 'Intermolecular Amination of Remote and Proximal Unactivated C_{sp}³-H Bonds Through Intrinsic Substrate Reactivity – Expanding towards a Traceless Directing Group Approach'. Prof. Nonappa, Tampere University, Finland gave last lecture of Day 1 on Plant Triterpenoid-Based Building Blocks for Functional Organic Nanomaterials.

On Day 2, Prof. S. K. Awasthi, University of Delhi, presented the 1st lecture on 'Design, Synthesis and Antimalarial Activity of Tetraoxane Analogs'. Similarly, Prof. A. S. Achal Kumar, IIT Guwahati, delivered the 2nd lecture on Self-assembled Nanostructured Organic Semiconductors. The last lecture of the webinar was presented by Prof. Akshai Kumar A. S., IIT Guwahati, on Poly-Fluorinated Poly-Aromatic Hydrocarbons and Their Versatile Applications'.

Faculties of various institutions, MSc students, Guest faculties and other invitees participated in the webinar. Overall around 250 participants benefited from this webinar

on various organic synthetic methods. Resource persons spoke on their recent research works related to advanced organic synthetic methods for the synthesis of biologically and medicinally important molecules. Many of the participants interacted with resource persons after their presentations. After all the lectures, valedictory function was conducted. Prof. Kishore Kumar C. K. Registrar, Mangalore University presided over this valedictory function. Dr. Sridhara K., ArkGen Pharma Pvt. Ltd., Bengaluru was our guest of honor.

