

REFERENCES:

1. A.I. Vogel : A Text book of Quantitative Inorganic Analysis, (ELBS), 1978.
2. APHA, AWWA and WPCF: Standard Method for the Examination of water and Waste Water (Washington DC),1989,
3. I. M. Kolthof and E.P. Sandell: Quantitative Chemical Analysis.McMillan,1980
4. I.Williams, Environmental Chemistry, Wiley, 2001
5. Lobinski and Marczenko, Comprehensive Analytical Chemistry, Vol.30, Elsevier,1996.

CH P 508: ORGANIC CHEMISTRY PRACTICALS – III

COURSE OUTCOME:

- Enable the students to understand and learn the principle of quantitative estimation of different types of organic molecules,
- Methods of organic preparations using multistep synthetic protocol,
- Isolation and purification of intermediate and final products,
- Use of computers in the study of conformation and geometry of some simple organic molecules.

Quantitative Determination: of sugars, amino acids, phenols, amines by various methods. Determinations of acid & ester and acid & amide in the given mixtures.

Multi Step Organic Synthesis: Synthesis of Ethyl resorcinol from Resorcinol, ϵ -Caprolactam from cyclohexanone, p-Aminobenzoic acid from p-Nitrotoluidine, s-Tribromobenzene from aniline, Benzanilide from Benzophenone, Benzylic acid from Benzoin, 2,5-Dihydroxy acetophenone from Hydroquinone, 2,4-Dinitrophenylhydrazine from Chlorobenzene, m-Nitrobenzoic acid from Benzoic acid, 2,4-Dinitrophenol from Chlorobenzene, o-Aminobenzoic acid from Phthalic anhydride.

Separation Techniques: Separation of components from mixture of organic compounds by fractional crystallization, fractional distillation, adsorption, Paper and TLC. Their purification and characterization.

Applications of computers in the study of conformation and geometry of some simple organic molecules.

REFERENCES:

1. Elementary Practical Organic Chemistry-Vol. III quantitative Organic Analysis- A.I. Vogel
2. Experimental Organic Chemistry- Vol. I &II- P.R.Singh, Tata McGraw-Hill, 1981.
3. Practical Organic Chemistry- IV Ed- Dey &.Sitaraman (Allied)
4. Laboratory Experiments in Organic Chemistry-Adam, Johnson &Wicon(McMillan, London), 1979.
5. Experimental Organic Chemistry- H.D.Durst & G.E.Goke (McGraw-Hill)1980.
6. Computers and their applications to Chemistry, Ramesh Kumari (Narosa).
7. Short Manual to the Chemical Drawing Program-ChemDraw®- Stefan Bienz (CambridgeSoft).



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-Valedictory
Dr. Shridhara K.
AriGen Pharma Pvt. Ltd., Bengaluru

Resource Persons



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



Prof. Bhishma 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

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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

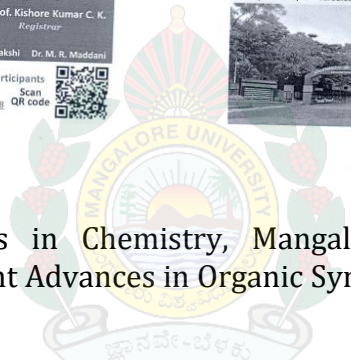
- 10.00am-11.00am** **Lecture 4:** Prof. S. K. Awasthi, University of Delhi, India
Design, Synthesis and Antimalarial Activity of Tetraoxane Analogs
- 11.15am-12.15pm** **Lecture 5:** Prof. A. S. Achal Kumar, IIT Guwahati, India
Self-assembled Nanostructured Organic Semiconductors
- 02.00pm-03.00pm** **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, 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 Csp³-H Bonds Through Intrinsic Substrate Reactivity – Expanding towards a Traceless Directing Group Approach'. Prof. Nonappa, Tempere 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.

