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CH P 457: INORGANIC CHEMISTRY PRACTICALS-II

COURSE OUTCOME:

- The students will have hands on experience in the qualitative analysis of mixtures of Inorganic Salts containing 3 cations in which 1 less common metal ion and 2 anions.
- Students will learn the systematic methods of separation techniques.
- Apart from inorganic radicals they also learn the separation organic radicals.

Qualitative Analysis of mixtures of Inorganic Salts containing 3 cations and 2 anions (1 less common metal ions like Tl, W, Mo, V, Zr, Th, U, Ce, Ti and Li to be included among anions organic acid radicals, phosphate, borate and fluoride separation included).

REFERENCES:

- 1. Vogel's Text Book of Quantitative Chemical Analysis (5th Ed), G. H. Jeffrey, J. Bassette, J.Mendham and R. C. Denny, Longman, 1999
- 2. Vogel's Qualitative Inorganic Analysis (7th Ed), G. Svehla, Longman (2001).

CH P 458: ORGANIC CHEMISTRY PRACTICALS-II

COURSE OUTCOME:

- Student will gain the in-depth knowledge and skill in organic separations,
- purifications, qualitative analyses.
- Separation of binary mixtures of organic compounds containing both mono and bifunctional groups
- Students will learn preparation of suitable derivatives.

Separation and systematic qualitative analysis of binary mixtures of organic compounds containing both mono and bifunctional groups and preparation of suitable derivatives.

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Department of Studies in Chemistry Organises International Webinar



Frontier Research in Chemical Sciences 2020

September 10 - 12, 2020



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Resource Persons Alumnae of the Department



Dr. Sahana Mallya SRI International, USA



Dr. Anitha Alanthadka IIT Roorkey, India



Dr. Rashmi Nayak NCL Pune, India



Dr. A. S. Amrutha RIES, Hokkaido University, Japan



Dr. Shridevi S. Bhat New York, USA



Dr. Sahana Roessler Max-Planck Institute, Germany

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

Prof. B. Vishalakshi Coordinator

Prof. G. K. Nagaraja

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Mangalore University Department of Studies in Chemistry



Mangalagangothri - 574 199

International Webinar on

Frontier Research in Chemical Sciences 2020

September 10 - 12, 2020

Program Schedule

Thursday, 10-09-2020

10.00am-10.30am Inauguration

10.30am-11.30am Lecture 1: Dr. Sahana Mallya, SRI International, USA

Title SynJet ™ - An automated chemistry platform for high throughput

reaction screening and optimization

11.45am-12.45pm Lecture 2: Dr. Rashmi Nayak, NCL Pune, India

itle Luminescent molecular liquids for large area lighting applications

Friday, 11-09-2020

10.30am-11.30am Lecture 3: Dr. Shridevi S. Bhat, New York, USA

Title How nanotechnology can change the world?

11.45am-12.45pm Lecture 4: Dr. Anitha Alanthadka, IIT Roorkee, India

Title Sustainable catalytic methodologies towards the synthesis of

N-heterocyclic compounds

Saturday, 12-09-2020

10.00am-11.00am Lecture 5: Dr. A. S. Amrutha, RIES, Hokkaido University, Japan

Title Targeted activation of motor protein - driven molecular

transportation by visible light

11.15am-12.15pm Lecture 6: Dr. Sahana Roessler, Max-Planck Institute, Germany

Title Spin-orbit entangled states in 4d and 5d transition element compounds

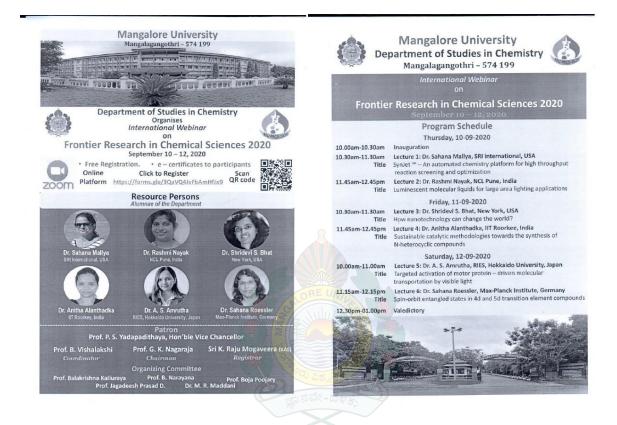
12.30pm-01.00pm Valedictory





Department of Studies in Chemistry

International Webinar on Frontier Research in Chemical Sciences (FRCS 2020)



Department of Studies in Chemistry, Mangalore University organised an international webinar on Frontier Research in Chemical Sciences (FRCS 2020) during September 10 - 12 2020.

This webinar was very special as all the invited resource persons are Alumnae of the Department of Chemistry, Mangalore University who are actively involved in research in India and abroad. Inauguration of the webinar was done on September 10 2020. Prof. P. S. Yadapadithaya presided over the Inauguration function. After the Inauguration, Dr. Sahana Mallya, SRI International, USA delivered the first lecture on 'SynJetTM – An automated chemistry platform for high throughput reaction screening and optimization. The 2nd lecture of the Day 1 was delivered by Dr. Rashmi Nayak, NCL Pune, India on 'Luminescent molecular liquids for large area lighting applications.

On the Day 2, Dr. Shridevi S. Bhat, New York, USA delivered the first lecture on 'How nanotechnology can change the world?' Subsequently, Dr. Anitha Alanthadka, IIT Roorkee, India presented the 2nd lecture on the topic 'Sustainable catalytic methodologies towards the synthesis of N-heterocyclic compounds' On the Day 3, Dr. A. S. Amrutha, RIES, Hokkaido University, Japan delivered the lecture on 'Targeted activation of motor protein – driven molecular transportation by visible light'. The last lecture of the webinar was presented by Dr.

Sahana Roessler, Max-Planck Institute, Germany on the topic 'Spin-orbit entangled states in 4d and 5d transition element compounds'.

Faculties of various institutions, MSc students, Guest faculties and other invitees participated in the webinar. Overall around 250 participants benefited from this webinar. Almost all the participants appreciated the organising team for arranging such a wonderful webinar. Many of the participants actively interacted with all the resource persons. After all the lectures, valedictory function was conducted. Sri K. Raju Mogaveera, Registrar, Mangalore University presided over the valedictory function.

