<u>Directorate of Outcome</u> Outcome Report(Event/Activity Organized @ AUH)

1. General Information

Date: 16th March 2022 **Event Type:** Seminar Series

Event Title: Heavy Metal Management

Event Theme: Research Seminar

Venue: MS Teams, Seminar series 2022

Web/Video Link of the https://teams.microsoft.com/l/meetup-join/19%3ag_XfCwXmijPj35p-CGh-

4xSqHnkZwYiwhG-

elk9 HdHs1%40 thread.tacv2/1647339300487? context=%7b%22 Tid%22%3a%228d46a076-d093-416d-a57b-8692 cde13bf8%22%2c%22 Oid%22%3a%227ce44f60-41fc-4d76-abf2-4c5c0596742b%22%7d

Organized by: Department of Chemistry, Biochemistry and Forensic Sciences

Event Level: Institutional

Student Participation*: No. of Students from AUH (Course wise):-26M.Sc (AC); 5 M.Sc(BC);

15M.Sc(FS)

Faculty Participation*: No. of Faculty Members from AUH (Deptt. wise):- 3 Participation from outside AUH*: No. of Students & Faculty Members-NIL

(Enclose attendance sheets in given format)

Event Coordinator(s) with designation: Dr. Dipti Vaya (Associate Professor)

Details of Expert/Speaker/Resource Person/Judge:

| SN | Country Name | Expert Name | Organi zation Name | Designation | Specializatio n | Contac t No. | E- mail Id | CV of Expert (Yes/ No) | Major Areas where Amity can Collaborat e with expert | Rec om me nde d by |
|----|-----------------|-----------------|--|---|--------------------|-----------------|------------------------|---------------------------------|--|-----------------------------------|
| 1 | India | DrDipti Vaya | Amity Univers ity Haryan a | Associate Professor, CBFS, ASAS, AUH | Photocatalysis | 971776 0941 | dvaya @ggn. amity. edu | NA | NA | NA |

Criteria of Inviting Resource Person/Judge/Speaker/Judge (Write a paragraph): The resource person was invited because she has expertise in wastewater treatment

Were the guest known in advance and if yes, from what previous interaction (Write a paragraph)? Yes, Dr.Dipti Vaya is known in advance to the students. She is an Associate Professor, CBFS, ASAS, AUH

Outcome of the Event with Time Lines (Proposed/Achieved)

| Envisaged Outcome | Tangible/ Intangible | Achieved/ Proposed | Target date & responsibilities (if proposed) | Details of outcome |
|--|-------------------------|-----------------------|---|--------------------|
| 1. Outcome related to Academia Co | nnect | | | |
| a) Collaborations for Research Papers/Conference Papers/ Book Chapter etc. | NA | NA | NA | NA |
| b) Collaborations & MOU for Research Guidance [PhD, PG & UG (summer training, Dissertation)] & Projects/Use of Instruments etc. | NA | NA | NA | NA |

| c) Collaboration for Funded Projects | | | | NA |
|--|-----------|--------------|-------------|------------------------------|
| , | | | | |
| 2. Outcome related to Industry Cor | nect | | | |
| a) Placement | NA | NA | NA | NA |
| b) Collaborations for Research Papers | NA | NA | NA | NA |
| c) Collaborations & MOU for Research Guidance [PhD, PG & UG (summer training, Dissertation)] &Projects/Use of Instruments | NA | NA | NA | NA |
| d) Collaboration for Funded Projects | NA | NA | NA | NA |
| 3. Outcome related to Society Outr | each_ | | | |
| a) Benefit to society in terms of Health & Hygiene | NA | NA | NA | NA |
| b) Benefit to society in terms of Education | NA | NA | NA | NA |
| 4. Outcome related to Students Lea | rning &Gr | ooming | | |
| | | | | Students learnt and |
| | | | | understood about the heavy |
| | | | | metal management. They |
| | | | | learnt about method of |
| | | | | chemical precipitation and |
| | | | | disadvantages of heavy |
| | | | | metals. They understood |
| | | | | about coagulation and |
| | | | | flocculation method, how it |
| | | | | is performed. They acquired |
| | | | | knowledge about membrane |
| | | | | separation and the technique |
| | | | | used in adsorption and |
| | | | | photocatalyst. They learnt |
| | | | | about nanoadsorbent |
| | | 5. <u>Ar</u> | ny other NA | · |
| | | | | |

2. **Event Report along with glimpses of the event**(Photographs)

Seminar started with introduction of speaker. The seminar "**Heavy Metal Management**" held on 16th March 2022 by Dr. Dipti Vaya.

Dr. Dipti Vaya started with explaining different heavy metal, minimum concentration needed for living beings. Different methods are discussed for removal of heavy metal. She then explained conventional and modern techniques of removal of heavy metals. Each process was explained with fundamental basics, associated with pros and cons of each process. Students understood various terminologies such as coagulant, flocs, flocculation,

After that she told students about purification techniques through membrane. It is a technique in which feed water is forced through a SPM membrane at high pressure to separate specific materials from

the solution. As per pore size, this process can be categorised as micro filtration, ultra filtration and osmosis.

Meeting ended with open discussions among speaker, students and faculty members of CBFS.

- 2.1 Future plan for utilizing the contacts developed with the Invited Guests: NA
- 2.2 Budget of the Event(Budget Sanctioned, Total Expenditure&Revenue Generated): NA
- 2.3 Details of Awards if Any:NA

| Awardee Details | Award / Position / Recognition Secured | Title of Innovation/ Start-up Secured the Award / Recognition | Award/Recognition/ Achievement Received for |
|-----------------|---|---|--|
| | | | |

3.8 Photographs with caption (also share high resolution JPEG files of photographs)



ESTABLISHED BY THE HARYANA ACT NO.10 OF 2010 AND UGC RECOGNISED . LOCATED AT GURGAON (MANESAR)

Contemporary Research Endeavors The Seminar Series

"Heavy Metal Management"

Speaker: Dr. Dipti Vaya, Associate Professor, CBFS,

ASAS, AUH

Organized by: Department of Chemistry, Bio-Chemistry

and Forensic Sciences, ASAS

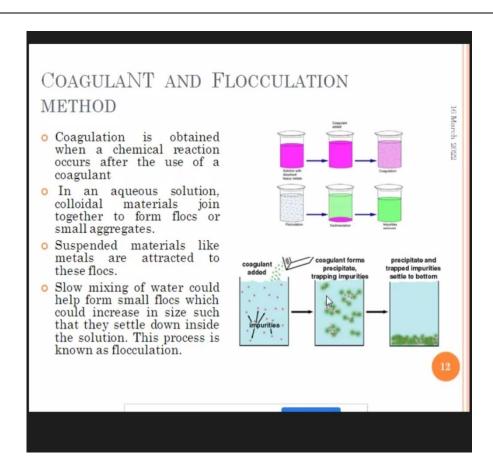
Venue: MS -Team (Seminar Series, 2022)

Date: 16th March, 2022 (Wednesday)

Time: 3:50- 4:45 pm

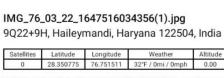
Audience

Compulsory to all students of M.Sc. Applied
Chemistry, M.Sc. Bio Chemistry and M.Sc. Forensic
Science (Second Semester)
Others are welcome to attend





Introduction

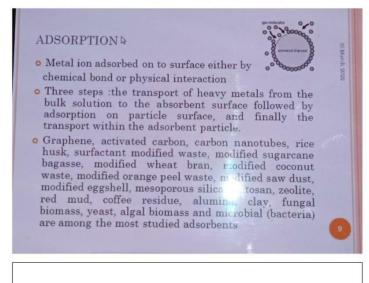




3/17/22 4:55 PM

Google Map (Normal) (Zoom Level 17)

Google Map (Normal) (Zoom Level 17)



Author: 3/17/22 4:55 PM

OPPO CPH2239

Graphical representation of ionic liquid



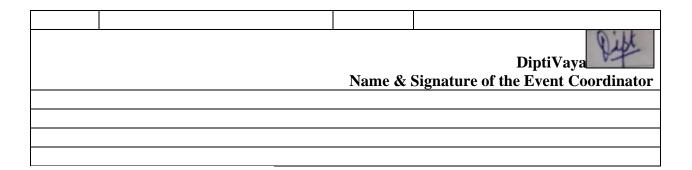
3.9 Scanned copy of attendance sheets

3.10Few Scanned feedback forms of participants NA

| Event Title: Heavy Metal Management Date: 16th March 2021 | | | | | | |
|---|--------------------------|--------|---------------------|--|--|--|
| S.No. | Participant Faculty Name | School | Designation | | | |
| 1 | Prof. Seema R Pathak | ASAS | Head, CBFS.ASAS | | | |
| 2 | Dr. Dipti Vaya | ASAS | Associate Professor | | | |
| 3 | Dr. Kamal Nayan Sharma | ASAS | Assistant Professor | | | |

Attendance Sheet of Students (AUH)

| Event Title: Heavy metal Management | | Date:16th March | 1,2022 |
|--|------------------------|-----------------|------------------------|
| S.No. | Participant Name | School | Programme & Semester |
| | | | |
| | | | |
| 1 | JyotiYadav | ASAS | M.Sc. Chemistry |
| 2 | Reena | ASAS | M.Sc. Chemistry |
| 3 | Anjali | ASAS | M.Sc. Chemistry |
| 4 | Sushma | ASAS | M.Sc. Chemistry |
| 5 | Anjali | ASAS | M.Sc. Chemistry |
| 6 | SahilRathi | ASAS | M.Sc. Chemistry |
| 7 | Shalu | ASAS | M.Sc. Chemistry |
| 8 | DikshaGahlot | ASAS | M.Sc. Chemistry |
| 9 | Sanju Sharma | ASAS | M.Sc. Chemistry |
| 10 | Sunil | ASAS | M.Sc.Chemistry |
| 11 | Jyoti yadav | ASAS | M.Sc. Chemistry |
| 12 | Jatin yadav | ASAS | M.Sc. Chemistry |
| 13 | Mansi | ASAS | M.Sc. Chemistry |
| 14 | Sonam | ASAS | M.Sc. Chemistry |
| 15 | Priyanshu Vats | ASAS | M.Sc. Chemistry |
| 16 | Ameer aalam | ASAS | M.Sc. Chemistry |
| 17 | Chandankumar | ASAS | M.Sc. Chemistry |
| 18 | Lakshay | ASAS | M.Sc. Chemistry |
| 19 | Kuldeep | ASAS | M.Sc. Chemistry |
| 20 | Priyanka | ASAS | M.Sc. Chemistry |
| 21 | Ashish ahlwat | ASAS | M.Sc. Chemistry |
| 22 | Ritika gera | ASAS | M.Sc. Chemistry |
| 23 | Reenu kumari | ASAS | M.Sc. Chemistry |
| 24 | Akshay | ASAS | M.Sc. chemistry |
| 25 | Geeta saini | ASAS | M.Sc. Chemistry |
| 26 | Akshima | ASAS | M.Sc. Chemistry |
| 27 | NishaSaxena | ASAS | M.Sc. Biochemistry |
| 27 | Tushasaxona | 715715 | Wilse. Biochemistry |
| 28 | Pratibha Gaur | ASAS | M.Sc. Biochemistry |
| 29 | Ashutosh | ASAS | M.Sc. Biochemistry |
| 30 | Ayesha begum | ASAS | M.Sc. Biochemistry |
| 31 | Garima k | ASAS | M.Sc. Biochemistry |
| 32 | Shruthikakevin | ASAS | M.Sc. Forensic science |
| 33 | Raghavendrakumaupadhya | ASAS | M.Sc. Forensic science |
| 34 | Yogita yadav | ASAS | M.Sc. Forensic science |
| 35 | Palak Singhal | ASAS | M.Sc. Forensic science |
| | | | |
| 36 | Ankita | ASAS | M.Sc. Forensic science |
| 37 | Pranav Raj | ASAS | M.Sc. Forensic science |
| 38 | Upasha Saini | ASAS | M.Sc. Forensic science |
| 39 | Prerna | ASAS | M.Sc. Forensic science |
| 40 | Akansha Saharan | ASAS | M.Sc. Forensic science |
| 41 | Aastha | ASAS | M.Sc. Forensic science |
| 42 | Divya | ASAS | M.Sc. Forensic science |
| 43 | Thomas Joseph | ASAS | M.Sc. Forensic science |
| 44 | Mayank kapoor | ASAS | M.Sc. Forensic science |
| 45 | Pallavi | ASAS | M.Sc. Forensic science |
| 46 | Manisha | ASAS | M.Sc. Forensic science |





Dr. Supreet Outcome Coordinator, ASAS



Prof. A. K. Yadav Director, ASAS