



Directorate of Outcome

Outcome Report(Event/Activity Organized @ AUH)

1. General Information

Date: 20th April, 2022

Event Type: Seminar Series

Event Title: “Tuning The Catalytic Efficiency of Transition Metal Complexes through Peripheral Ligand Modification”.

Event Theme: Research Seminar

Venue: D-block, Room no.-309

Web/Video Link of the Event : Offline Event

Organized by: Department of Chemistry, Biochemistry and Forensic Sciences

Event Level: Institutional

Student Participation*: No. of Students from AUH (Course wise):- 22 M.Sc (AC); 5 M.Sc (FS)

Faculty Participation*: No. of Faculty Members from AUH (Deptt. wise):- 1

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	Organization Name	Designation	Specialization	Contact No.	E-mail Id	CV of Expert (Yes/No)	Major Areas where Amity can Collaborate with expert	Recommended by
1	India	Dr. Gyanshwar K Rao	Amity University Haryana	Assistant Professor, CBFS, ASAS, AUH	Organometallic Chemistry	6393 230 849	gkrao.r@gg.n.amity.edu	NA	NA	NA

Criteria of Inviting Resource Person/Judge/Speaker/Judge (Write a paragraph): The resource person was invited because he has excellent knowledge in his field.

Were the guest known in advance and if yes, from what previous interaction (Write a paragraph)?

Yes, Dr. Gyanshwar K Rao is known in advance to the students. He is an Assistant 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 Connect				
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	NA	NA	NA
2. Outcome related to Industry Connect				

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 Outreach				
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 Learning & Grooming				
				Students learnt and understood about the tuning the catalytic efficiency of Transition metal complexes through peripheral ligand modification. They learnt about the Organochalcogen ligated palladium II complexes in catalysis. They also learnt about Suzuki-Miyaura reaction. Then they learnt about nature of catalysis, challenges faced by petroleum based economy. They also understood about challenges of practical applications.
5. Any other				
NA				

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

Seminar started with the introduction of speaker. The seminar "**Tuning the catalytic efficiency of Transition metal complexes through peripheral ligand modification**" held on 20 April 2022 by Dr. Gyaneshwar K Rao.

Students learnt and understood about the Organochalcogen ligated palladium (II) complexes in catalysis. They learnt about Suzuki - Miyaura reaction. They are commonly referred to as the Suzuki cross-coupling reaction. Palladium catalyzed cross-coupling between organoboron compounds and organic halides leading to the formation of carbon-carbon bonds.

Students also learnt about synthesis of Palladacycles. They also learnt about nature of catalysis, mercury poisoning test, PPh₃ poisoning test, Three- phase test. Then they learnt about challenges of

petroleum based economy. Solution to the energy challenge is low GHG, a carbon neutral and sustainable energy supply. Carbon dioxide concentration reached a maximum of 416 ppm in 2021.

Students also understood about the challenges for practical applications like over potential, solubility of carbon dioxide, product selectivity etc

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*)

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Contemporary Research Endeavors

The Seminar Series

**“Tuning the Catalytic Efficiency of Transition Metal
Complexes Through Peripheral Ligand Modification”**

Speaker Dr. Gyaneshwar K Rao, CBFS, ASAS, AUH

**Organized by: Department of Chemistry, Bio-Chemistry
and Forensic Sciences, ASAS**

Venue: D-309

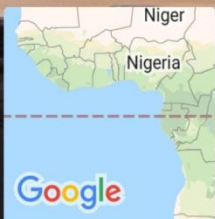
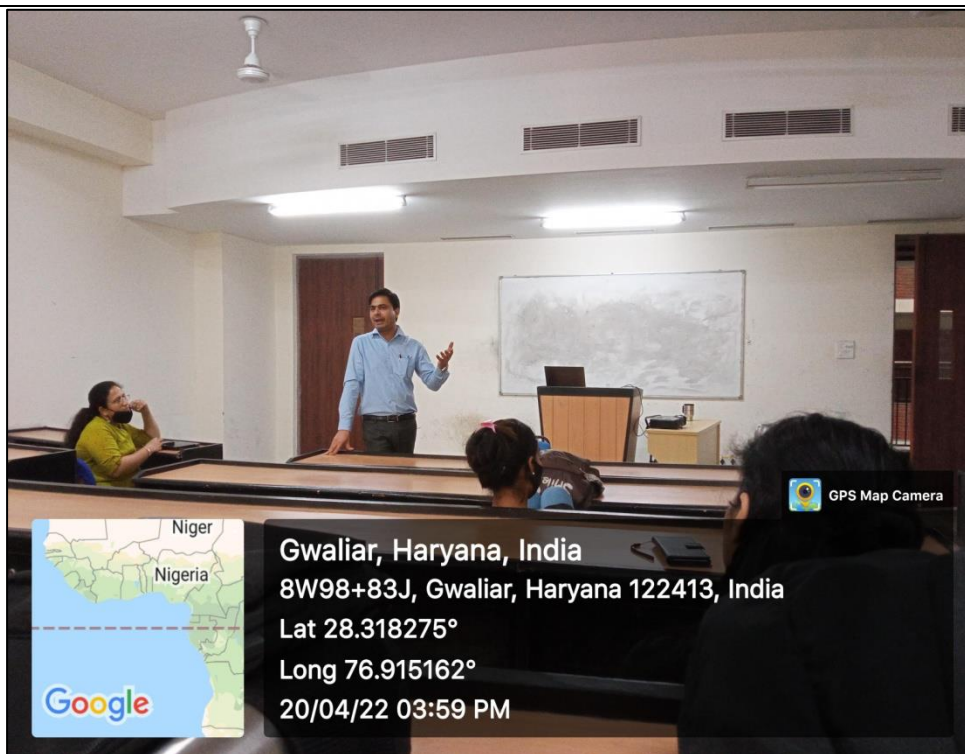
Date: 20th April, 2022 (Wednesday)

Time: 3:50- 4:45 pm

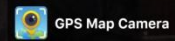
Audience

**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**

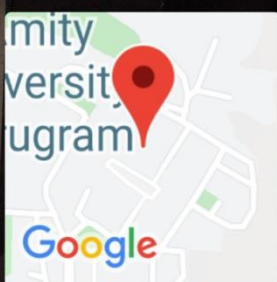
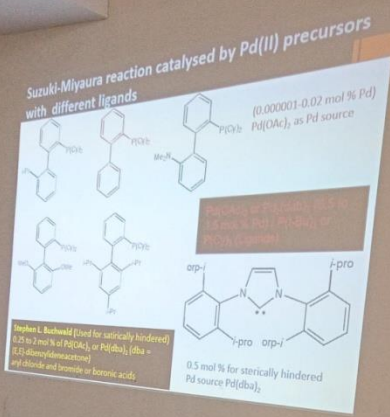
Event Flyer



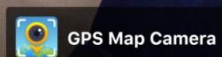
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 Long 76.915162°
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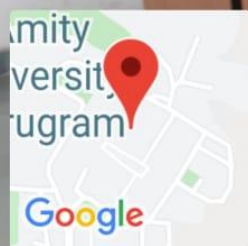
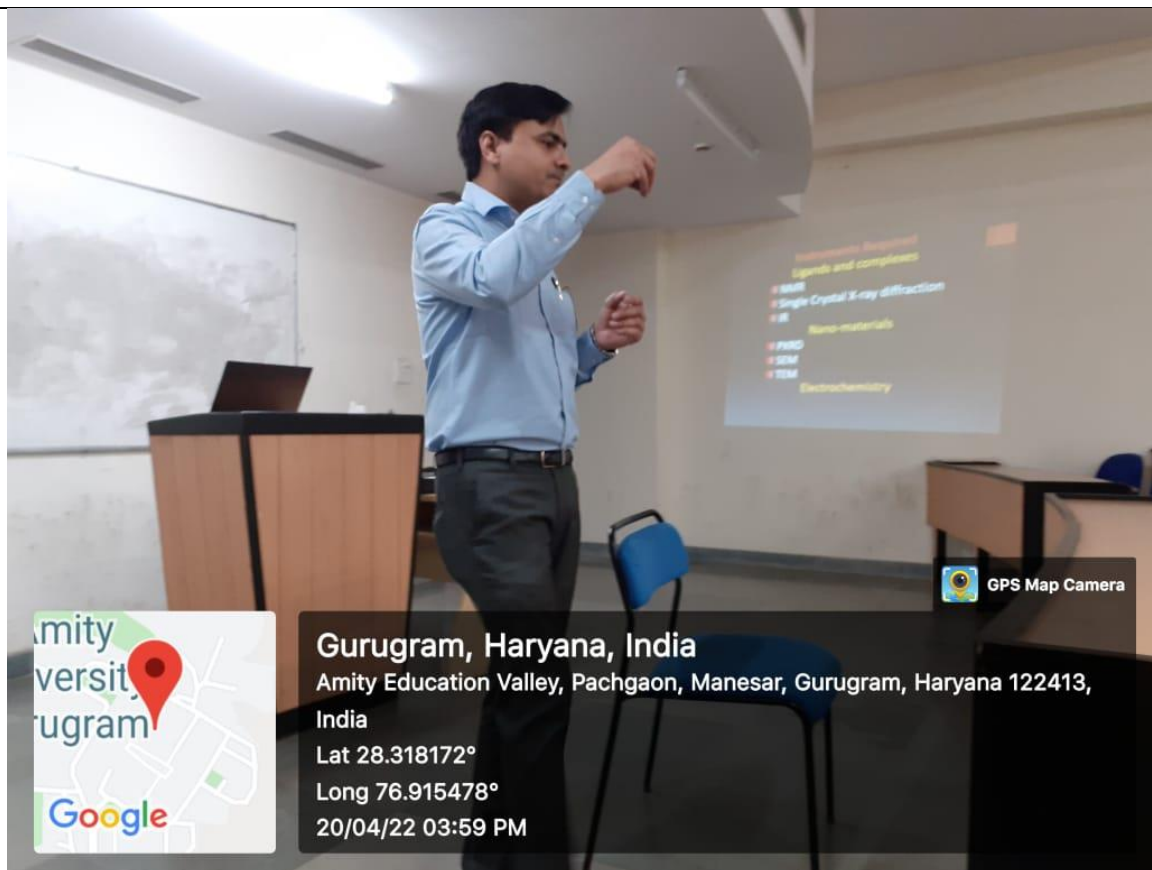


Introduction



Gurugram, Haryana, India
 Amity Education Valley, Pachgaon, Manesar, Gurugram, Haryana
 122413, India
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 Long 76.91552°
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Gurugram, Haryana, India
 Amity Education Valley, Pachgaon, Manesar, Gurugram, Haryana 122413,
 India
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 Long 76.915478°
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Suzuki-Miyaura Coupling

S.No.	Participant Faculty Name	School	Designation
1	Dr.Dipti Vaya	ASAS	Associate Professor

S.No.	Participant Name	School	Programme & Semester
1	Renu	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	Geeta	ASAS	M.Sc. Chemistry
12	Jatinyadav	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	Akshay	ASAS	M.Sc. Chemistry
21	Ashish ahlwat	ASAS	M.Sc. Chemistry
22	Nikita	ASAS	M.Sc. Chemistry
23	Thmoas	ASAS	M.Sc. Forensic Science
24	Shuruthika	ASAS	M.Sc. Forensic Science
25	Aastha	ASAS	M.Sc. Forensic Science
26	Raghav	ASAS	M.Sc. Forensic Science
27	Ankita	ASAS	M.Sc. Forensic Science

Dr. Supreet
Outcome Coordinator, ASAS



Prof. Atul Thakur
Head of Institute, ASAS