



MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B+Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

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Report of the Science Academies' Lecture Workshop in

“Emerging Trends of Research at the Interface of Chemical Sciences and Biology”

Held on: May 18 & 19, 2023

Sponsored by

Indian Academy of Sciences (Bengaluru), Indian National Science Academy (New

Delhi) and the National Academy of Sciences, India (Prayagraj)



On receiving approval from Science Academies' (vide ref no. SEP/LW/April/2023 dated 30th March, 2023) and in the initiation of Prof. Ashutosh Ghosh, Vice-Chancellor, Rani Rashmoni Green University, Convener of Lecture Workshop and Dr. Bidhan Chandra Samanta, Head, Dept. of Chemistry, Mugberia Gangadhar Mahavidyalaya, Co-ordinator of Lecture Workshop, the two day lecture workshop was held on the scheduled dates in the S N Bose Seminar Hall of the college. The workshop was inaugurated by Prof. Ashutosh Ghosh on 18th May, 2023 at 11.00 am and an inaugural address had been delivered by him. Dr. Swapan Kumar Misra, Principal of the college delivered welcome address in front of the gathered participants and distinguished speakers. After his welcome lecture, the schedule four lectures of Day 1 were delivered (details are given below). Accordingly, in Day 2, the four lectures were also delivered by the speakers (details are given below) followed by valedictory session with concluding remarks delivered by Dr. Bidhan Chandra Samanta Co-ordinator of Lecture Workshop and with interactive feedback sessions from all sections of participants (UG students, PG students, Research Scholars and Faculty members). The program was ended at 5.30 pm on 19th May, 2023 by giving vote of thanks by the Principal Sir. About 130 participants (Students: 111; Teachers: 11; Resource Persons: 04; Supporting Staff: 04) were present in each day of the said workshop.

Detailed Programme Schedule

1st day: 18th May, 2023, Thursday

Registration: 9.30 a.m. to 10.30 a.m.

Breakfast and Tea: 10.30 a.m. to 10.50 a.m.

Short Inaugural sessions: 11.00 a.m. to 11.30 a.m.

1. Introductory remarks by Dr. B. C. Samanta, Head, Dept. of Chemistry, Mugberia Gangadhar Mahavidyalaya and Co-ordinator of Lecture Workshop
2. Inauguration by Prof. Ashutosh Ghosh, Vice-Chancellor, Rani Rashmoni Green University and Convener of Lecture Workshop.
3. Welcome address by Dr. Swapan Kumar Misra, Principal, Mugberia Gangadhar Mahavidyalaya.
4. Inaugural address by Prof. Ashutosh Ghosh, Vice-Chancellor, Rani Rashmoni Green University and Convener of Lecture Workshop.

Lecture Session – I: (11.30 a.m. to 2.00 p.m.)

Lecture 1: (11.30 a.m. to 12.45 p.m.): Dr. Tanmaya Pathak, PhD, FAScT, FASc, Professor, Department of Chemistry, Indian Institute of Technology Kharagpur, Kharagpur 721 302, India.

Topic of lecture: Organic reactions associated with biomolecules like DNA, peptides, carbohydrates etc.

Lecture 2: (12.45 p.m. to 2:00 p.m.): Dr. Ashutosh Ghosh, FASc, Vice-Chancellor, Rani Rashmoni Green University and Professor, Department of Chemistry, University of Calcutta.

Topic of lecture: Principle of X-ray diffraction study

Lunch Break: 2.00 p.m. to 2.40 p.m.

Lecture Session – II: (2.40 p.m. to 5.20 p.m.)

Lecture 3: (2.40 p.m. to 3:55 p.m.): Dr. Tapan Kanti Paine, PhD, Professor, School of Chemical Sciences, Indian Association for the Cultivation of Science (IACS), 2A&2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032, India

Topic of lecture: Development of Coordination Chemistry and Its Implications

Tea Break: 10 mins

Lecture 4: (4.05 p.m. to 5:20 p.m.): Dr. Tapan Kanti Paine, PhD, Professor, School of Chemical Sciences, Indian Association for the Cultivation of Science (IACS), 2A&2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032, India

Topic of lecture: Establishing Physical Oxidation States in Metal Complexes of Ligands with Open-Shell Electron Configuration

2nd day: 19th May, 2023, Friday

Lecture Session – III: (10.30 a.m. to 1.10 p.m.)

Lecture 5: Dr. Samik Nanda, Professor, Department of Chemistry Indian Institute of Technology, Kharagpur, Paschim Medinipur, West Bengal.

Topic of lecture: Application of bio-catalysis in Organic Synthesis

Tea Break: 10 mints

Lecture 6: Dr. Ashutosh Ghosh, FASc, Vice-Chancellor, Rani Rashmoni Green University

Topic of lecture: Catecholase and Phenoxazinone like activities of metal complexes.

Lunch Break: 1.10 p.m. to 2.00 p.m.

Lecture Session – IV: (2.00 p.m. to 4.30 p.m.)

Lecture 7: Dr. Tanmaya Pathak, Professor, Department of Chemistry, IIT, Kharagpur, Paschim Medinipur, West Bengal

Topic of lecture: Medicinal Chemistry: An Introduction

Lecture 8: Dr. Samik Nanda, Professor, Department of Chemistry Indian Institute of Technology, Kharagpur, Paschim Medinipur, West Bengal

Topic of lecture: Application of bio-catalysis in Organic Synthesis (Continued)

Tea Break: 10 mints

Valedictory Session: (4.40 p.m. – 5.30 p.m.) along with feedback session from the participants and vote of thanks

A FEW GLIMPSES OF THE PROGRAM

<p style="text-align: center;">Invitation</p> <p>Dear Sir/Madam/Students</p> <p>We have the honor and privilege to inform you that the department of Chemistry of Mugberia Gangadhar Mahavidyalaya is going to organize a two day Lecture Workshop on "Emerging Trends of Research at the Interface of Chemical Sciences and Biology" on May 18 & 19, 2023 sponsored by Science Academies of India in the college campus.</p> <p>We cordially invite you, your colleagues, research scholars and students to attend the workshop and solicit your hearty co-operation in making it a grand success.</p> <p>Thanking you.</p> <p>Yours sincerely,</p> <p style="text-align: center;">Dr. Swapan Kumar Misra Principal Mugberia Gangadhar Mahavidyalaya Organizing Secretary of Lecture Workshop.</p> <p style="text-align: center;">Prof. Ashutosh Ghosh VC, Rani Rashmoni Green University Convener of Lecture Workshop.</p> <p style="text-align: center;">Dr. Bidhan Chandra Samanta Associate Prof. and Head, Dept. of Chemistry Mugberia Gangadhar Mahavidyalaya Co-ordinator of Lecture Workshop.</p>	<p style="text-align: center;">Science Academies' Lecture Workshop</p> <p style="text-align: center;">On "Emerging Trends of Research at the Interface of Chemical Sciences and Biology"</p> <p style="text-align: center;">Date: May 18 & 19, 2023</p> <p style="text-align: center;"></p> <p style="text-align: center;">Organized by:- Department of Chemistry Mugberia Gangadhar Mahavidyalaya Bhupatinagar, Purba Medinipur, West Bengal, India</p> <p style="text-align: center;">Sponsored by:- Science Academies of India</p> <p style="text-align: center;"></p>	<p style="text-align: center;">REGISTRATION FORM</p> <p>Two day Lecture Workshop on "Emerging Trends of Research at the Interface of Chemical Sciences and Biology"</p> <p style="text-align: center;">Date: May 18 & 19, 2023</p> <p>1. Name (BLOCK LETTERS): _____</p> <p>2. Address: _____</p> <p>3. Contact No.: _____</p> <p>4. Email ID: _____</p> <p>5. Areas of specialization: _____</p> <p>6. Organization: _____</p> <p>7. Category (Faculty Member / Research Scholar/ Student): _____</p> <p>8. Whether Accommodation required (Please write YES / NO): _____ If "YES" whether Paid for in Advance: (Please write YES/ NO): _____</p> <p>9. Food habit (Veg. or Non-veg.): _____</p> <p style="text-align: right;">Signature of the applicant</p> <p>Place: Date: _____</p>
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<p style="text-align: center;">About the Organizing Institute</p> <p>Mugberia Gangadhar Mahavidyalaya was established on 2nd July 1964 as co-educated college in Bhupatinagar village situated in Bhagwanpur II Block under Contai Sub-Division of Purba Medinipur District, West Bengal by a society of the same name. From its very inception the college is trying to full fill one of the noble objectives "To promote educational facilities of all types, including studies in Arts (Humanities), Science, Technical and Vocational Courses". This degree college began as an Arts college, but now it expands by opening three streams - Arts, Science, Commerce and a Physical Education Training Course (B.P.Ed & M.P.Ed). It even runs many job oriented courses. Presently the college has been awarded with "DBT Star College Strengthening Scheme for Chemistry, Mathematics and Zoology departments and also awarded with "College with Potential for Excellence" status by the UGC under XII Plan. It is a NAAC Re-accredited 3rd cycle B+ Level Institution (CGPA 2.71) and is approved by NCTE. Thus the goals of the society are transmitted into academic and extension activities.</p> <p>It is situated at Mugberia with a great heritage of culture and learning. It is about 140 km from Kolkata, about 35 km from Contai Sub divisional town and about 50 km from Tamluk, the District Headquarter of Purba Medinipur District, West Bengal.</p> <p>Background and objectives of the workshop</p> <p>Along with the quest for fundamental aspects, scientists have always been interested in designing practical applications of scientific advances in the form of devices, drugs, catalysts etc for mankind. The goal of fundamental science at the interface of chemical sciences and biology is to understand life in chemical terms. Our ability to accomplish the translation of biology into chemical terms is closely related to our fundamental understanding of life's machinery. However, there are still some challenges for chemists to.</p>	<p>To meet these challenges, more and more researches at the interface of chemical sciences and biology are going on particularly for the prevention, diagnosis, and treatment of diseases. But the students belonging to this rural and backward area of West Bengal are completely unaware about these advances in chemical research. So, the main objective of this lecture workshop is to provide awareness, information, knowledge and encouragement to the target audience mainly students from host and nearby colleges regarding recent trends of application based researches in chemical sciences.</p> <p>Important Deadlines: Last Date of Registration: 15-05-2023</p> <p>Registration Fee: (Without accommodation) Scientists/Faculty Members: Free Students/Research Scholars: Free</p> <p>Accommodation & Contact Details: Accommodations will be arranged for the participants on request in Hostel/Guest Houses/Hotels on charge basis.</p> <p>All communication should be addressed to: Dr. Bidhan Chandra Samanta, Department of Chemistry, Mugberia Gangadhar Mahavidyalaya. Contact No: 9732752907, Email: bidhansamanta@yahoo.in</p> <p style="text-align: center;">Sponsored by -</p> <p style="text-align: center;">Science Academies of India</p> <p style="text-align: center;"></p>	<p style="text-align: center;">LIST OF INVITED SPEAKERS</p> <ol style="list-style-type: none"> Dr. Ashutosh Ghosh, FASC, Vice-Chancellor, Rani Rashmoni Green University and Professor, Department of Chemistry, University of Calcutta. Dr. Tanmaya Pathak, PhD, FASCT, FASC, Professor, Department of Chemistry, Indian Institute of Technology Kharagpur, Kharagpur 721 302, India. Dr. Samik Nanda, Professor, Department of Chemistry IIT Kharagpur Dr. Tapan Kanti Paine, PhD, Professor, School of Chemical Sciences, Indian Association for the Cultivation of Science (IACS), Jadavpur, Kolkata-700032, India
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Figure caption 1: Inviting Brochure

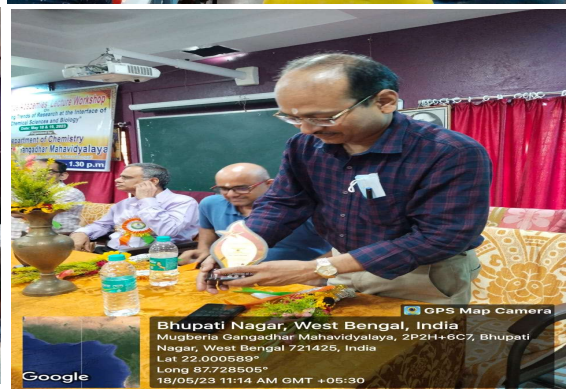


Figure caption 2: Inaugural Session



Figure caption 3: Lecture by Prof. T Pathak (Day 1 & 2)



Figure caption 4: Lecture by Prof. A Ghosh (Day 1 & 2)



Figure caption 5: Lecture by Prof. T K Paine (Two lectures at Day 1)



Figure caption 6: Lecture by Prof. S Nanda (Two lectures at Day 2)



Figure caption 7: Target participants



Figure caption 8: At the time of valedictory session

Twitter link of the event

<https://twitter.com/Swapank26545954/status/1659404004865245184>

<https://twitter.com/Swapank26545954/status/1659403200913641472>

<https://twitter.com/Swapank26545954/status/1659559294965268481>


Twitter link of the event

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19.06.2023

Principal
Mugberia Gangadhar Mahavidyalaya