SPEAKERS

Sri. Amiya Kumar Kalidaha

Senior Scientific Officer Dept. of Science & Technology and Biotechnology, Govt. of West Bengal

Dr. Arun Kumar

Senior Scientist &Principal Investigator [ICMR Project, New Delhi (Gol)] [Indo-Japan Project, Govt. of Japan] [DST - SSTP Project, New Delhi (GOl)] [Co- Principal Investigator, ICMR Project, Gol] [Co - Principal Investigator, DST- NERC Project, Gol] Mahavir Cancer Sansthan& Research Centre PhulwarisharifPatna – 801505Blhar, INDIA

Dr. Zahed Hossain

Professor, Dept. of Botany, University of Kalyani

Dr. Sudha Gupta Associate Professor

Department of Botany, University of Kalyani Dr. Debasis Jana

Former Associate Professor

Department of Botany, Sripat Singh College

Former Associate Professor Department of Chemistry, Sripat Singh College ORGANIZING COMMITTEE CHAIRMAN

Mr. Asis Kumar Sen, TIC CONVENOR

Dr. Suchetana Mukherjee Assistant Professor, Department of Botany Contact No: 9735658709

JOINT CONVENOR

Dr. IndranilSaha Assistant Professor, Department of Chemistry Contact No: 9836243310

SECRETARY

Mr. SumitBandopadhyay, IQAC Co-ordinator JOINT SECRETARY Dr. Sharmila Dutta Banik Teacher Council Secretary

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18-19 NOV. 2022 SPONSORED BY DEPARTMENT OF SCIENCE & TECHNOLOGY AND BIOTECHNOLOGY, GOVT. OF WEST BENGAL.

JOINTLY ORGANISED BY DEPT. OF BOTANY & CHEMISTRY



SRIPAT SINGH COLLEGE

Jiaganj, Murshidabad, West Bengal-742123 Website:www.sripatsinghcollege.edu.in Email: sscollege2009@gmail.com

AIMS AND SCOPES:

We do not inherit earth from our ancestors, we borrow it from our children.

Environmental sustainability is a responsible interaction with the environment to avoid depletion or degradation of natural resources and allow for long-term environmental quality. The practice of environmental sustainability helps to ensure that the needs of today's population are met without jeopardizing the ability of future generations to meet their needs. But, despite the increased popularity of the use of the term "Sustainability" the possibility has been and continues to be a question. With this background our Sripat Singh College is going to organize the seminar having the title: Environmental Sustainability: Issue and Challenges. It is our effort to create awareness and explore different strategies to promote economic, social and agricultural advancement in ways avoiding environmental degradation on 18 and 19 November, 2022.

OUR COLLEGE:

Sripat Singh College, the first Govt. Sponsored co-educational degree college in West Bengal, started its journey in 1949 in the "Cutcheri Bari" of great Sripat Singh Doogar. Now, This Institution enriches youth and fulfils all-round socio-economic-educational-cultural needs of the mass of Murshidabad by virtue of its utmost sincerity and efficacy. It has now become an ideal centre of learning, education and research. Honours courses in almost all subjects of science and humanities including Biotechnology and Environmental Science, regular MA course in Bengali, different UG and PG courses under DODL, K.U., Rabindra Bharati University Distance Education centre and Netaji Open University are running successfully in this College with remedial coaching and tutorial classes. Besides, one-yearcertificate course in Biotechnology: Plant Tissue Culture affiliated to University of Kalvani is conducted by Department of Botany. spreading knowledge among the mass.

PATRONS:

- Mrs. Shaoni Singha Roy, Hon'ble President.
- 2. Sh. Asis Kr. Sen, TIC and Secretary, GB.

3. Sh. Prasenjit Ghosh, Chairman, J-A Municipality, Member (State Govt. Nominee)

- Sh. Gour Gopal Chatterjee, Member (State Govt. Nominee)
- Sh. RajibChuroria, Member (WBSCHE Nominee)
- Dr. Sujata Mukhopadhyay, Member (University Nominee)
- **Prof.** Zahed Hossain, Member (University Nominee) 7.
- Sh. Sanjay Doogar (Donor Member) 8.
- Dr. Sukumar Mal, Member (Teachers' representative)
- 10. Dr. Himadri Guhathakurta, Member (Teachers' representative)
- 11. Sh. Swapan Kumar, Sarkar, Member (Teachers' representative) 12. Sh. Saswata Chakraborty, Member (Non-teaching
- representative)

REGISTRATION:	REGISTRATION FORM
Registration Fees	Two Days National level Seminar on
Faculty: 1000/-	Environmental Sustainability: Issues and
Research Scholar: 750/-	
Student: 100/-	Challenges
Last date of Abstract submission: 14 th Nov. 2022	Nov. 18 th & 19 th , 2022
Last date of Registration: On or before 18 th Nov. 2022	(Please type or fill up in block letters)
Last date of full Paper submission: 18th Nov. 2022	
Online registration link:	NAME.
https://forms.gle/r2zrkqfHpY7FUj83A	
Mode of Payment: Online	
Name: PRINCIPAL SRIPAT SINGH COLLEGE	DESIGNATION
(Project)	INSTITUTION
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BANK OF BARODA, JIAGANJ BRANCH	TITLE OF ABSTRACT
RTGS/NEFT IFSC: BARBOJIAGAN, (Note; 0= zero)	
LAST DATE FOR ONLINE PAYMENT: 15/11/2022	
VENUE:	
SRIPAT SINGH COLLEGE, JIAGANJ, MURSHIDABAD.	FULL MAILING ADDRESS
CALL FOR PAPER:	FULL MAILING ADDRESS
Soft copy of the abstract limited to 250 words (excluding title of the	••••••
paper, name of author/s, and affiliations) prepared in MS Word	••••••
format typed in Times New Roman with font size 12 and 1.5 line	••••••
spacing and should be submitted through email to the following mail id	Email:
only:sscseminar2020@gmail.com&indranilsaha2010@yahoo.com	CONTACT NO.
on or before: 14 th Nov 2022.	ABSTRACT ATTACHED? (y/n)
Scanned or typed copy of registration from to be sent along with	FOOD HABIT (VEG/ NON VEG)
the abstract with email to the committee. Acceptance of the	DETAILS OF REGISTRATION:
abstract will be communicated to the author. For poster presentation the poster should be 90 cm X 120 cm in size	FEES DETAILS (OFFLINE MODE)
in portrait mode. Co-author other than the presenting author will	TEES DETAILS (OFFLINE MODE)
have to undergo the registration process separately if more than	•••••••••••••••••••••••••••••••••••••••
one author intends to attend the seminar.	
THRUST AREAS:	DATE
 Green Chemistry Groundwater management and sustainable development 	
3. Climate change and its impact on environment	
4. Environmental chemistry	Signature
 Sustainable agriculture techniques Food security, Forestry & biotechnology 	[Registration from can be downloaded from the
7. Urbanization, industrialization & environmental issues	college website <u>www.sripatsinghcollege.edu.in</u>
8. Waste management-issue and remedies 9. Disaster management	and send it in advance with fees.
9. Disaster management 10. Environmental impact on fluvial system	
11. Environmental economics	Photo copy of the registration from can be used.]
12. Ecocriticism and Indian Literature 13. 'Environmental ethics': An Indian perspective	
14. Biodiversity- its loss and conservation	

PROGRAMME SCHEDULE

TWO DAYS NATIONAL SEMINAR ON ENVIRONMENTAL SUSTAINABILITY: ISSUES AND CHALLENGES 18-19 NOV. 2022 SPONSORED BY DEPARTMENT OF SCIENCE & TECHONOLOGY AND BIOTECHNOLOGY, GOVT. OF WEST BENGAL

JOINTLY ORGANISED BY DEPARTMENT OF BOTANY & CHEMISTRY,

SRIPAT SINGH COLLEGE.

Time	Session Details	
10.00-11.00 AM	Registration	
11.00-11.30 AM	Lighting of lamp and felicitation of dignitaries	
11.30-11.45 AM	Welcome address by seminar convenor	
11.45-12.00 AM	Address by the Teacher-in-charge Sri Asis Kumar Sen	
12:00-12:15 PM	Address by Secretary and IQAC Co-ordinator Mr. Sumit	
	Bandopadhyay	
12:15-12:30 PM	Address by Teacher Council Secretary Dr. Sharmila Dutta Banik	
12.30-1.30 PM	Technical session 1:	
	I L-1: Dr. Arun Kumar, Senior Scientist & Principal Investigator,	
	Mahavir Cancer Sansthan & Research Centre, Patna Bihar (Keynote speaker)	
1:30-2:30 PM	Lunch Break	
2.30-3.30 PM	Technical session 2:	
	IL-2: Dr. Sudha Gupta, Associate Professor, Department of	
	Botany, University of Kalyani	
3.30-4.15 PM	Oral presentation	
4.15-4:30 PM	Valedictory Session	

Day-1

Day-2

Time	Session Details	
11.00-11.15 AM	Refreshment	
11.15-11.30 AM	Welcome address by seminar joint-convenor	
11.30-12.30 AM	Technical session 3	
	I L-4: Dr. Debasis Jana, Former Associate Professor, Department	
	of Botany, Sripat Singh College	
12.30-1.30 PM	I L-5: Prof. Zahed Hossain, Department of Botany, University of Kalyani	
1:30-2:15 PM	Lunch Break	
2:15-3:15 PM	Technical session 4	
	I L-6: Dr. Sukumar Mal, Former Associate Professor, Department	
	of Chemistry, Sripat Singh College	
3:15-4.15PM	Poster presentation	
4:15-4:30 PM	Valedictory Session	

A REPORT ON DSTBT SPONSORED NATIONAL SEMINAR ON ENVIRONMENTAL SUSTAINABILITY: ISSUES AND CHALLENGES

- Title of the programme: Seminar on environmental sustainability: Issues and Challenges.
- 2. Level of Seminar: National.
- 3. Duration of Seminar: Two days.
- 4. Held on: 18-19 November, 2022.
- 5. Sanctioning authority: Science & Technology and Biotechnology.
- Sanction Order No.: 1817(Sanc.)/STBT-11012(22)/34/2019-ST SEC dated 12/02/2020.
- 7. Sanctioned Amount: 40,000/-
- Name of the Institute with postal address: Sripat Singh College, Jiaganj, Murshidabad, PIN- 742123.
- 9. Organised by: Department of Botany and Chemistry, Sripat Singh College.
- 10. Name of the Programme Convenor with designation, mobile no. and e-mail id: Dr. Suchetana Mukherjee, Assistant Professor, Department of Botany, Sripat Singh College, Jiaganj, Murshidabad, Mobile no. 9735658709, e-mail id: mukherjee.suchetana@gmail.com.
- 11. Name of the Programme Joint Convenor with designation, mobile no. and e-mail id: Dr. Indranil Saha, Assistant Professor, Department of Chemistry, Sripat Singh College, Jiaganj, Murshidabad, mobile no. 9836243310, e-mail id: <u>indranilsaha2010@yahoo.com</u>.

- 12. Objective of the Seminar:
 - To make the youth aware of the imbalance created between the three pillars (i.e. environment, economic and social) of sustainability and most important is to find out immediately a possible way-out.
 - The seminar focuses on identifying strategies to promote economic and social advancement in ways that avoid environmental degradation, over-exploitation or pollution. Population, food security, loss of species and genetic resources, energy, industry and human settlement are well connected and cannot be treated in isolation from one another.
 - iii. The seminar aims at finding out sustainable agriculture techniques to meet the food supply to this huge population.

DETAILED ACTIVITIES OF THE SEMINAR:

REGISTRATION:

A registration desk was set up and faculty members of the Department of Botany, Smt. Bhaswati Chattopadhyay, Smt. Shraboni Paul, Miss Sabina Yeasmin, managed the entire process of registration.

INAGURATION:

The students of Department of Botany performed an opening song to officially inaugurate the programme followed by the welcome address of the convenor, Dr. Suchetana Mukherjee; joint convenor, Dr. Indranil Saha; Teacher-in-charge, Sri Asis Kumar Sen; IQAC co-ordinator, Sri Sumit Bandopadhyay and Staff council secretary, Dr. Sharmila Dutta Banik. Volume 2 of the wall magazine named BOTANICA was also published in the inaugural session. The entire programme was well conducted by Dr. Roushan Islam, Assistant Professor, Department of Botany.













TECHNICAL SESSION OF DAY1:

The technical session started with the invited lecture of the key note speaker Dr. Arun Kumar, Senior Scientist & Principal Investigator, Mahavir Cancer Sansthan & Research Centre, Patna Bihar. His talk focussed on arsenic poisoning in the Gangetic plains of Bihar causing an increased frequency in human cancer. Thus, emphasized on significant policy making which may ensure the control of the disease.

The second lecture of the technical session was delivered by Dr. Sudha Gupta, Associate Professor, Department of Botany, University of Kalyani. The topic of her talk was "Urban beekeeping towards achieving environmental sustainability". The topic was very interesting which emphasized on urban beekeeping using stingless bees. Urban beekeeping helps is pesticide free pollination of wild cultivars on one hand and on the other honey and other products obtained from bees ensured food security and nutrition. Hence, urban beekeeping is sustainable in many ways.

Technical session for the 1st day concluded with oral presentation of the registered delegates, research scholars and students both from colleges and university.













TECHNICAL SESSION OF DAY 2:

The technical session for the second day started with the lecture of Dr. Debasis Jana, Former Associate Professor, Department of Botany, Sripat Singh College. His talk focused on "Rapid population as an environmental issue". The topic dealt with major issues related to rapid surge of population and how it is affecting the environment. The different issues discussed included land degradation, ground water and surface water contamination, loss of floral species, air pollution and global warming.

The second lecture of the day was delivered by Prof. Zahed Hossain, Department of Botany, University of Kalyani. He is an eminent scientist, JSPS Invited Fellow (NICS, Japan), DST-BOYSCAST Fellow (NICS, Japan), Visiting Researcher (UJI, Spain), DST FAST TRACK Young Scientist and a recipient of Shiksharatna Award (2021). He discussed the role of microRNAs as key regulators of plant responses to Abiotic stress.

The concluding lecture of the day was delivered by Dr. Sukumar Mal, Former Associate Professor, Department of Chemistry, Sripat Singh College. His topic highlighted one of the burning issues i.e., the gases that causes Global Warming and the mechanism of conversion of light energy to heat energy.















CONCLUSION:

Sripat Singh College, Jiaganj, Murshidabad organized WBDSTBT SPONSORED NATIONAL SEMINAR ON ENVIRONMENTAL SUSTAINABILITY: ISSUES AND CHALLENGES on 18-19 NOV, 2022 at Rabindra Sabhaghar. The proceedings were started by Dr Suchetana Mukherjee, Convener and Dr Indranil Saha, Joint Convener while Sri Asis Sen, Teacher-in-charge, Sripat Singh College delivered the welcome address along with Sri Sumit Bandopadhyay, Coordinator, IQAC and Dr Sharmila Dutta Banik, Teacher Council Secretary, expressed his heartfelt gratitude to all the participants who have come all the way to Murshidabad to take part in this seminar. The seminar hosted a galaxy of dignitaries to deliberate on the growing calamity that the environment is facing and varied ways to combat the problem. The inaugural session saw the presence of Dr. Arun Kumar, Senior Scientist & Principal Investigator, Mahavir Cancer Sansthan & Research Centre, Patna, Bihar who delivered the keynote address on Arsenic poisoning causing increased human cancer disease burden in the Gangetic plains of Bihar. In Technical session 2, Dr Sudha Gupta from Dept of Botany, University of Kalyani delivered her talk on urban beekeeping towards achieving environmental sustainability. On Day 2 the proceedings were started by Dr Debasis Jana, former Associate Professor, Dept of Botany, Sripat Singh College, who gave his talk on corelating rapid population with environmental issue while Prof. Zayed Hossain, Dept of Botany, University of Kalyani delivered his talk on microRNAs as key regulators of plant responses to Abiotic stress which was a very illuminating talk. Dr Sukumar Mal, former Associate Professor, Dept. of Chemistry, Sripat Singh College, deliberated on gases which cause global warming in the last session. This was followed by poster presentation by some of the delegates and students. The 2-day seminar drew to a close with valedictory session and photo sessions with the participants and students. Needless to say, that going by the response by the participants, the seminar was a grand success.

ACKNOWLEDGEMENT:

First of all, I would like to thank the sanctioning authority (Science & Technology and Biotechnology) for the financial support. I would specially like to thank Sri Amiya Kumar Kalidaha for guiding us throughout the entire procedure. I would also like to thank our Teacherin-Charge Sri Asis Kumar Sen, IQAC co-ordinator Sri Sumit Bandopadhyay and Teacher Council Secretary Dr. Sharmila Dutta Banik for their co-operation and constant support. I am thankful to the entire technical team, Mr. Debraj Roy, assistant professor, department of botany. Dr. Amit kumar Kundu and Dr. Raja Ghosh, assistant professor, department of chemistry, who smoothly tackled all the technical issues. I would like to thank the entire organising committee. Last but not the least, I am thankful to my dear students (department of botany) for their active participation and hard work. Without their help this would not have been possible.

Standard Form - I

Utilisation Certificate (UC) in respect of Grant-In-Aid

UC

No.			Date:
	1.	Name of the Grantee Institute (s) [Attach separate list for more than one 0	: SRIPAT SINGH COLLEGE Grantee Institution]
	2.	Sanctioning Authority	: SCIENCE & TECHNOLOGY AND BIOTECHNOLOGY
	3.	Sanction Order Number & Date	:1817(Sanc.)/STBT-11012(22)/34/2019-ST SEC; 12/02/2020
	4.	Amount Sanctioned	:40,000.00(Forty Thousand only)
	5.	Drawing & Disbursing Officer	Sec. Officer, Science & Technology & Biotechnology Department
	6.	Treasury/PAO [From where the bill was drawn]	:Pay & Accou8nts Officer-III, Calcutta PAO-III
	7.	Bill No. & Date	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	8.	T. V. No. & Date	
	9.	Amount Drawn	: 40,000.00(Forty Thousand only)
	10.	10. Unspent Balance of Previous year, if any: NA	
	11.	Amount Utilised	: 40,000.00(Forty Thousand only)
2	12.	Unspent Balance, if any, in Current year	: NIL
	13.	Purpose of Utilisation	:Seminar on Environmental Sustainability: Issues and Challenges

CERTIFICATE

Certified that I have satisfied myself that the conditions on which the Grant-in-Aid was sanctioned have been duly fulfilled/are being fulfilled that I have exercised the following checks to see that the money was actually utilised for the purpose for which was sanctioned.

[Applicable in case of unspent balance] The unspent fund will be adjusted against the Grant-in-Aid to be sanctioned and paid in the Current Financial Year (applicable in case of recurring grant only).

Kinds of checks exercised

- 1. Cash Book
- 2. Registration sheet

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Date

Signature with Official Stageher-in-Charge Sripat Singh College

10

(IMPORTANT: UC must be completed in one single A4 page and not to split into more than discusse)Murshidabad