

Personal Profile

Dr. Dilip Gorai (Associate Professor of Chemistry)



1. **Name:** Dr. Dilip Gorai
2. **Date of Birth:** 30.12.1976
3. **Caste :** OBC-B
4. **Address:** Indirapally, Santiniketan, PIN-731235
5. **Sex:** Male
6. **Educational Qualifications:**

Name of Exam.	Board/Univ.	Year of Passing	Div/Class	% of marks
Madhyamik	WBBSE	1993	1 st	64.44
H.S.	WBCHSE	1995	1 st	72.20
B.Sc. Hons. in Chemistry	Burdwan University	1998	1 st	62.87
M.Sc. (Chemistry)	Visva-Bharati	2000	1 st	71.20
CSIR-NET	--	2000	--	--
GATE	--	2000	--	95.55 percentile
Ph.D.*	Visva-Bharati	2006	--	--

***Thesis Title:** Studies on the chemical constituents of some Indian medicinal plants bearing polycyclic compounds (Date of Award: 25.09.2006)

7. **Present Occupation**
with address of Institution: Associate Professor of Chemistry (Since 13th August, 2017),
Bolpur College (Affiliated to The Univ. of Burdwan), Bolpur, Birbhum
8. **Experiences**
 - a. **Research:** More than fifteen years experience in the field of **Natural Products Chemistry**
 - b. **Research Project work:** Completed three UGC minor research projects as Principal Investigator

S. No.	Title of Project	Agency (Funding, Commissioning and/ or collaborating)	Period	Output/Impact, i.e. Book/Paper/film/technology/Web-facility/Programme/Process	Grant(s)/Amount mobilized (so far) in Rs. (Lakhs)
1	Chemical analysis of <i>Limnophila rugosa</i> -an indigenous medicinal	U.G.C.	19.12.06 to 18.12.08	One paper published (Indian J. Chem., Sec. B)	0.80
2	Terpenoids from <i>Rauvolfia tetraphylla</i> -a potent indigenous medicinal plant	U.G.C.	13.12.10 to 12.06.12	One paper published (J. Chem. Res.)	1.60
3	Chemical investigation and pharmacological studies of <i>Peltophorum pterocarpum</i>	U.G.C.	May. 2014 to April, 2016	Two papers published	5.0

- c. **Teaching:** (i) More than twelve years as an Assistant Professor of Chemistry
(ii) More than Six years in teaching as an Associate Professor
- d. **Answer script evaluation:** More than Fourteen years experience in evaluation of answer scripts of undergraduate level examinations appointed by The University of Burdwan (**both in Chemistry and Environmental studies**)
- e. **Paper Setter, Moderator & Head Examiner:** Performed as paper-setter, Moderator & Head Examiner in UG level (Hons. & General) as appointed by The University of Burdwan, as paper setter in UG level of The University of Gourbanga, Malda & Kazi Nazrul University, Asansol, as Head Examiner in UG level of NSOU
- f. **UG BOS member:** Performing as UG BOS member in Chemistry of The University of Burdwan since March, 2023

- g. **Research Paper Reviewer:** Performed evaluation of research articles as Reviewer in some International Journals of repute
- h. **Life member:** Life member of the Indian Science congress Association (Membership No. L26804 dtd. 24.03.2015)

i. **Orientation /Refresher/Short term course completed:**

S. No.	Programme	Duration	Organised by	Grade received
1	15 th RC in <i>Environmental Sciences</i>	23.12.08 to 12.01.09	ASC, The Univ. of Burdwan	A
2	1 st RC in <i>Materials Science</i>	28.06.13 to 18.07.13	ASC, The Univ. of Burdwan	A
3	Short Term course on <i>Research Methodology</i>	08.06.2017 to 14.06.2017	HRDC, North Bengal University	Completed successfully

j. **Non-academic matters:**

- i. More than six years experience as **Governing Body (GB)** member of Kulti college
- ii. More than three-year experience as **Governing Body (GB)** member (Univ. Nominee) of Deshbandhu Mahavidyalaya, Chittaranjan
- iii. More than five-year experience as **NSS Programme Officer** (*a Central Govt. scheme*) in Kulti college
- iv. Performing as GB member (as University Nominee & West Bengal Council of Higher Education Nominee) of Kabi Joydeb Mahavidyalaya, Illambazar since 2019 (still continuing)
- v. Performing as member in different sub-committees of the college like NAAC steering committee, Library committee, Admission committee etc.
- vi. Serving as Examination In-charge of Bolpur College in all University Examinations including different Competitive examinations held at Bolpur College Centre (continuing).
- vii. Performing as **Co-ordinator, NSOU, Bolpur college centre** from 1st April, 2017 to 31.03.2024
- viii. Performing as GB member (Teachers' Representative) of Bolpur College since December, 2018 (continuing)
- ix. Performing as GB member (as University Nominee) of Bolpur College since December, 2022 (continuing)

9. **Publications:**

a. **Research articles**

- i. National Journal: Published: **10** (Ten)
- ii. International Journal: Published: **37** (Thirty-seven)

b. **Book Chapters:** Edited Book Chapters: **05** (Five)

c. **Book:** **02** (Two)

List of Publications

1. G. Brahmachari, A. Gangopadhyay, S. Mondal, D. Chatterjee, **D. Gorai**, A new naturally occurring xanthone bearing rare oxygenation pattern from *Hoppea fastigiata*, **Journal of Chemical Research**, **2003**, 6, 362-363.
2. G. Brahmachari, S.M.A. Sohel, **D. Gorai**, S. Mondal, B. Mistri, An ethylenedioxy flavonoid carboxylic acid from *Limnophila indica*, **Journal of Chinese Chemical Society**, **2003**, 50(2), 325-328
3. K.S. Mukherjee, S.M.A. Sohel, **D. Gorai**, D. Chatterjee, B. Mistri, B. Mukherjee, G. Brahmachari, A new flavonoid from *Limnophila rugosa*, **Fitoterapia**, **2003**, 74(1-2), 188-190.
4. G. Brahmachari, **D. Gorai**, D. Chatterjee, Mondal, B. Mistri, 5,8-Dihydroxy-6,7,4'-trimethoxy flavone, a novel flavonoid constituent of *Limnophila indica*, **Indian Journal of Chemistry, Sec. B**, **2004**, 43B(1), 219-22.
5. K.S. Mukherjee, **D. Gorai**, B. Mukherjee, S. Mondal, G. Brahmachari, Triterpenes from *Borreria articularis*, **Journal of Chinese Chemical Society**, **2004**, 51(1), 229-31.

6. G. Brahmachari, S. Mondal, A. Gangopadhyay, **D. Gorai**, B. Mukherjee, S. Saha, A.K. Brahmachari, *Swertia* (Gentianaceae): Chemical and pharmacological aspects, **Chemistry & Biodiversity**, **2004**, 1(11), 1627-51.
7. G. Brahmachari, **D. Gorai**, Progress in the research of naturally occurring flavones and flavonols: An overview, **Current Organic Chemistry**, **2006**, **10(8)**, 873-98.
8. S. K. Jash, S. Mondal, **D. Gorai**, G. Brahmachari, Chemical investigation of *Limnophila rugosa*-an indigenous medicinal plant, **Proc. of National symposium on MAPER, RKVM, Kamarhati, Kolkata**, **2007**, 49-52.
9. G. Brahmachari, **D. Gorai**, Recent progress on the research of Flavonoids: An overview, **Recent Trends & Developments of Natural Products, Research Signpost, Trivandrum, India**, **2006**, Chapter-4, 61-159. [Book Chapter, ISBN-81-308-0140-X]
10. G. Brahmachari, Arindam Gangopadhyay, S.K.Jash, S. Laskar, **D. Gorai**, Chemical constituents of *Limnophila indica*, **Indian Journal of Chemistry, Sec. B**, **2008**, 47B(12), 1898-1902.
11. G. Brahmachari, **D. Gorai**, Michael addition reaction: Applications in total synthesis of bioactive natural products, **Natural Products: Chemistry, Biochemistry and Pharmacology, Narosa Publishing House Ltd., New Delhi, India**, **2009**, Chapter-21, 782-804. [Book Chapter, ISBN: 978-81-7319-886-1]
12. G. Brahmachari, R. Roy, **D. Gorai**, L.C. Mandal, P.P.Ghosh, A new long-chain secondary alkanediol from the flowers of *Argemone mexicana*, **Journal of Chemical Research**, **2010**, 34(11), 656-57.
13. **D. Gorai**, S.K.Sou, Antibacterial activity of some medicinal plants available in Panchet and Panchokot Hills, Purulia, West Bengal, **J. Panchokot esSAYS**, **2011**, 2, 282-86.
14. G. Brahmachari, L.C. Mandal, R. Roy, **D. Gorai**, S.K.Jash, A. Mondal, S. Majhi, Lupeol, a pharmaceutically potent triterpenoid, from the ripe fruits of *Rauwolfia tetraphylla* L. (Apocynaceae), **Journal of the Indian Chemical Society**, **2011**, 88(2), 303-305.
15. G. Brahmachari, L.C.Mandal, **D. Gorai**, A. Mondal, S. Sarkar, S. Majhi, A new labdane diterpene from *Rauwolfia tetraphylla* Linn. (Apocynaceae), **Journal of Chemical Research**, **2011**, 35(12),678-680.
16. **D. Gorai**, S. K. Jash, Trends in development of biopesticides, **Green chemistry and sustainable agriculture practices: a step towards a better future**, Council for MS Academic B-7/39, Kalyani, W.B., India, **2013**, 185-195.
17. G. Brahmachari, **D. Gorai**, R. Roy, *Argemone mexicana*: Chemical and Pharmacological aspects, **Revista Brasileira de Farmacognosia**, **2013**, 23(3), 559-575.
18. S. K. Jash, A. Gangopadhyay, A. Sarkar, **D. Gorai**, Phytochemical investigation of the hexane extract of stem bark of *Peltophorum pterocarpum* (DC.), **Der Pharma Chemica**, **2013**, 5(5), 49-53.
19. Raj K. Singh, Atasi Sarkar, **D. Gorai**, Antibacterial activity of some medicinal plants available in Panchet and Panchokot Hills, Purulia, West Bengal, **Der Pharmacia Letters**, **2013**, 5(6), 20-23.
20. S.K. Jash, Atasi Sarkar, **D. Gorai**, *Limnophila indica* (Scrophulariaceae): Chemical and pharmacological aspects, **Int. J. Nat. Prod. Res.**, **2013**, 3(4), 110-114.
21. **D. Gorai**, Bioactive constituents of *Peltophorum pterocarpum* (DC.) flowers, **Der Pharma Chemica**, **2013**, 5(6), 364-368.
22. S.K. Jash, R.K. Singh, A. Sarkar, Sasadhar Majhi, **D. Gorai**, Chemical and pharmacological aspects of *Limnophila rugosa*: An update, **Int. J. Nat. Prod. Res.**, **2013**, 3(4), 120-124.
23. S.K. Jash, R K. Singh, S. Majhi, A Sarkar, **D. Gorai**, *Peltophorum pterocarpum*: Chemical and pharmacological aspects, **Int. J. Pharm. Sci. Res.**, **2014**, 5(1), 26-36.
24. S.K. Jash, Raj K. Singh, **D. Gorai**, Chemical and pharmacological aspects of *Limnophila heterophylla* (Scrophulariaceae): An overview, **Int. J. Pharm. Sci. Rev. Res.**, **2014**, 25(2), 100-102.
25. S.K. Jash, Raj K. Singh, A. Gangopadhyay, **D. Gorai**, Chemical and pharmacological aspects of *Limnophila aromatica* (Scrophulariaceae): An overview, **Am. J. Phytomed. Clin. Ther.**, **2014**, 2(3), 348-356.
26. S. K. Jash, **D. Gorai**, A. Gangopadhyay, Biosynthesis of Silver Nanoparticles from Aqueous Leaf Extract of *Synedrella nodiflora* under Sunlight Irradiation and Screening of its Antibacterial Activity, **Int. J. Pharm. Sci. Nanotechnol.**, **2014**, 7(3), 2590-96.
27. **D. Gorai**, Two bioactive constituents from *Argemone mexicana*, **Int. J. Curr. Res. Chem. Pharm. Sci.**, **2014**, 1(4), 64-67.
28. S. K. Jash, R. Roy, **D. Gorai**, Bioactive constituents from *Bauhinia variegata* Linn., **Int. J. Pharm. Biomed. Res.**, **2014**, 5(2), 51-54.
29. **D. Gorai**, R. Roy, A. Sarkar, D.K. Roy, Chemical and pharmacological aspects of *Limnophila geoffrayi*: An update, **World J. Pharm. Sci.**, **2014**, 2(11), 1582-86.
30. R. Roy, Raj. K. Singh, S.K. Jash, A. Sarkar, **D. Gorai**, *Combretam quadrangulare* (Combretaceae): Phytochemical constituents and biological activity, **Indo Am J. Pharm. Res.**, **2014**, 4(8), 3416-3426.
31. S. Roy, R. Acharya, R. Roy, **D. Gorai**, *Combretum* (Combretaceae): Biological activity and phytochemistry, **Indo Am J. Pharm. Res.**, **2014**, 4(11), 1566-1599.
32. R. Roy, S. K. Jash, **D. Gorai**, Light at Night (LAN): Now a Global Challenging Issue, **The Journal of Social Science and Humanity Research**, **2015**, 2(2), 215-236.
33. **D. Gorai**, R. Roy, S. K. Jash, R. Acharya, Chemistry and Pharmacology of the Genus *Limnophila* (Scrophulariaceae), **The Natural Products Journal**, **2015**, 5(1), 14-33.
34. S. K. Jash, **D. Gorai**, Sugar derivatives of morphine: A new window for the development of potent anesthetic drugs, **The Natural Products and Bioprospecting**, **2015**, 5(3), 111-127.
35. S. K. Jash, R. Roy, R. K. Singh, **D. Gorai**, *Limnophila* (Scrophulariaceae): Chemical and pharmacological aspects, **World J. Pharm. Res.**, **2015**, 4(7), 1269-1300.

36. D. Gorai, S. K. Jash and R. Roy, Ursane's from *Salvia* species, **Indo Am. J. Pharm. Res.**, **2016**, 6(1), 4242-4252.
37. D. Gorai, S. K. Jash and R. Roy, Lupane from *Salvia* Genus, **Int. J. Nat. Prod. Res.**, **2016**, 6(1), 12-17.
38. S. K. Jash, D. Gorai and R. Roy, *Salvia* Genus: Minor Isolated Triterpenoid (s), **Int. J. Innov. Sci. Res.**, **2016**, 5(2), 001-004.
39. R. Roy, S. K. Jash, S. Roy, R. N. Acharya, D. Gorai, Two Bioactive constituents from *Combretum decandrum*, **Int. J. Nat. Prod. Res.**, **2016**, 6(1), 18-20.
40. D. Gorai, S. K. Jash, S. Roy, Flavonoids from *Astragalus* Genus, **Int. J. Pharm. Sci. Res.**, **2016**, 7(7), 2732-47.
41. S. K. Jash, D. Gorai and R. Roy, *Salvia* Genus and Triterpenoids, **Int. J. Pharm. Sci. Res.**, **2016**, 7(12), 4710-32.
42. D. Gorai, Antimicrobial activity of the leaf and flower extract of *Peltophorum pterocarpum*, **Universal Journal of Chemistry**, **2016**, 5-6.
43. D. Gorai, S. K. Jash and R. Roy, Ethnopharmacological, phytochemical, pharmacological and toxicological aspects of *Lantana camara* L.: A comprehensive Review, **Advances in Biomedicine and Pharmacy**, **2016**, 3(5), 328-57.
44. R. Roy, S. K. Jash and D. Gorai, Phytochemical and GC-MS studies on *Symphorema polyandrum* seeds, **Proceedings of the National Seminar on Chemistry on its way; Impacts on the Environment**, Saldiha College, **2017**, 58-71. [Book Chapter, ISBN: 978-93-84191-17-7]
45. D. Gorai, Waste Management in Educational Institutions, **Proceedings of the UGC sponsored National Seminar on Pollution: Disbalancing the Global Environment: Threats and Preventions**, Bolpur College, **2017** [Book Chapter, ISBN: 978-93-80869-62-9]
46. Rajiv Roy, Dilip Gorai, Shyamal K. Jash, Flavonoids from *Astragalus* Genus, **LAMBERT Academic publishing, Germany**, **2017**. [Book: ISBN Number - 978-3-330-03625-3; Published on 02-02-2017]
47. S. Lakhmale, R. Acharya, D. Gorai, R. Roy, Phytochemical analysis of *Symphorema polyandrum* Wight. seeds by GC-MS, **Indo Am. J. Pharm. Res.**, **2017**, 7(5), 8852-8862.
48. Rajiv Roy, Dilip Gorai, Rabinarayan Acharya, Sudipta Roy, *Combretum* (Combretaceae): Biological activity and Phytochemistry, **LAMBERT Academic publishing, Germany**, **2017**. [Book: ISBN Number - 978-3-330-33411-3 Published on 23-06-2017]
49. Dilip Gorai, An Isoflavone from *Peltophorum pterocarpum*, **World J. Pharm. Res.**, **2017**, 6(11), 718-22.
50. D. K. Rana, D. Saha, P. S. Sengupta, B. Sarkar, P. Mondal, D. Gorai & S. K. Jash, Computational and Docking Studies of 5,6-dihydroxy-7,8,4'-trimethoxyflavone: A α -Glucosidase Inhibitory Constituent from *Limnophila indica*, **Journal of Chemistry and Chemical Sciences**, March **2018**, 8(3), 548-61.
51. S. K. Jash, D. Gorai, L. C. Mondal and R. Roy, Nuclear Magnetic Resonance Spectroscopic Behaviour of some selective Natural Flavonoids: A look through, **Mini Reviews in Organic Chemistry**, **2020**, 17(2), 185-196. [DOI: <https://doi.org/10.2174/1570193X166661812241106>; Bentham Science Publication]
52. S. K. Jash, D. Gorai, L. C. Mondal and S. Pal, GC-MS Analysis of Antibacterial Phytochemicals from *Cassia sophera* Linn., **International Journal of Pharmaceutical sciences and Nanotechnology**, **2020**, 13(5), 5131-5137.
53. A. Gangopadhyay, D. Gorai, S.K. Jash & S. Chattopadhyay, Cytotoxicity of Natural Flavones and Flavonols against different cancer cells, **J. Iranian Chemical Society**, **2022**, 19(5), 1547-73. (Springer Publication).
54. D. Gorai, S.K. Jash and D. Kundu, **Progress in the Research of Naturally Occurring Biflavonoids: A Look through in "Frontiers in Natural Products Chemistry"** (Ed. Prof Atta-ur-Rahaman), **Bentham Science Publication**, **2022**, Volume-10, Chapter-3, pp. 73-153.
54. A. Mahata, M. Garain, Totan Roy, D. Gorai and D. Kundu, Transition metal catalysed direct C-H chalcogenation of arenes and heteroarenes, **Current Organic Synthesis**, **2023**, 20(6), 764-795.
55. A. Roy, A. Mondal, D. Gorai and Debashis Kundu, Fe(0) Nps-catalysed C-Chalcogenide cross coupling of Boronic acids with Dichalcogenides under Microwave irradiation, **Current Green Chemistry** (Communicated in March 2024)

10. Awards received:

- Arun Sen memorial award for securing highest marks in Chemistry Honours in Suri Vidyasagar College
- National merit scholarship on the basis of B.Sc. (Hons.) result

11. Papers presented in Conferences, Seminars, Workshops, Symposia

S. No.	Title of the paper presented	Title of Conference/Seminar	Organized by
1	A novel pentaoxygenated flavone from <i>Limnophila indica</i>	40 th Annual Convention of Chemists 2003	Indian Chemical Society, 2003
2	<i>Limnophila heterophylla</i> - a new source of Nevadensin	42 nd Annual Convention of Chemists 2005	Indian Chemical Society, 2006
3	Rugosone-a novel flavonoid from <i>Limnophila rugosa</i>	NACMAP-2005	B. N. Mahavidyalaya, Itachuna, Hoogly, 2005
4	New Natural source and X-ray crystallographic study of two flavonoids from <i>Limnophila indica</i>	National symposium on current trends in chemistry	University of Kalyani, Nadia, 2007
5	Chemical investigation of <i>Limnophila rugosa</i> -an indigenous medicinal plant	Medicinal and Aromatic plants for economic benefit of rural people	RKVM-IAS, Kamarhati, Kolkata, 2007

		(MAPER)	
6	A bioactive flavonoid from <i>Limnophila indica</i>	16 th West Bengal State science & Technology congress	West Bengal Science and Technology & The Univ. of Burdwan, 2009
7	A new naturally occurring flavonoid from <i>Limnophila indica</i>	Recent trends in chemistry	B. C. College, Asansol, 2010
8	Bioactive triterpenoids from Rauvolfia tetraphylla- a useful Indian medicinal plant	The national conference on green and sustainable chemistry	BITS, Pillani, Rajasthan, 2010
9	Triterpenoid constituents of <i>Rauvolfia tetraphylla</i> (Apocynaceae)	Current trends in Chemistry	Deshbandhu Mahavidyalaya, Chittaranjan, 2011
10	Trends in Development of Biopesticides	Green chemistry and sustainable agriculture practices: a step towards a better future	Panchokot Mahavidyalaya, 2013
11	Trends in development of biopesticides	Green Chemistry and Sustainable Agricultural practices: A step towards a better future	Panchokot Mahavidyalaya, Purulia, 2013
12	Chemical and pharmacological aspects of <i>Peltophorum pterocarpum</i>	Bioprospecting of Natural products	Burdwan University, 2013
13	Triterpenoid constituents of <i>Peltophorum pterocarpum</i>	21 st West Bengal science and Technology congress	Burdwan University, 2014
14	Synthesis of silver nano particles in aqueous leaf extract of Tulsi with enhanced antibacterial activity: a photo-biological approach	International conference on non-linear dynamics and its applications in physical and biological sciences (CNDAPBS-14)	Darjeeling Govt. college, 2014
15	Phytochemical Analysis of <i>Symphorema polyandrum</i> seeds by GC-MS studies	National Seminar on Chemistry on Its Way: Impacts on the Environment	Saldiha College, Bankura, 2016
16	Phytochemical Analysis of <i>Symphorema polyandrum</i>	1st Regional Science & Technology congress-2016	Bankura Christian College and DST, West Bengal, 2016
17	Waste Management in Educational Institutions	UGC sponsored State Level seminar/conference/workshop on Effective College Administration	Kulti College, Kulti, Burdwan, 2016
18	An isoflavone from <i>Peltophorum pterocarpum</i>	International "Science Seminar"	Burdwan Raj College & Indian Chemical Society, 10 th October, 2017
19	5,7-Dihydroxy-2',3',4'-trimethoxyisoflavone: A Bioactive flavonoid from <i>Peltophorum pterocarpum</i>	International Science Seminar on "Science:Past, Present & Future"	Syamsundar College & Indian Chemical Society, 12 th December, 2017

12. Participation in Conferences, Seminars, Workshops, Symposia without paper

S. No.	Title of Conference/Seminar	Date and Year	Organized by
16	Short Duration Lecture Workshop on Recent Trends in Interdisciplinary Sciences	12-14 February, 2018	ISERC & Visva-Bharati
15	One Day Workshop on CBCS system	17th July, 2017	The University of Burdwan and Suri Mahavidyalaya
14	UGC sponsored National Seminar on Rabindranath Tagore: Humanity and	2nd & 3rd December, 2015	Bolpur College, Bolpur

	Cultural affinity		
13	Lecture workshop on Recent Trends in Chemistry with reference to Teaching and Research	13-14 March, 2015	Department of Chemistry, Visva-Bharati
12	State Level seminar on Siksha, sanskriti, chatra andolan--sikhaker bhumika	15th November, 2014	IACS, Kolkata
11	Lecture workshop on Recent Developments in Chemistry	29th November-1st December, 2012	Department of Chemistry, Visva-Bharati
10	National seminar on Recent Advances in Chemical Sciences	15-17 March, 2012	Department of Chemistry, The University of Burdwan
9	UGC sponsored one-day seminar on International Year of Chemistry: Impact of Chemistry on our lives	25th March, 2011	Department of Chemistry, Visva-Bharati
8	UGC sponsored National seminar on Current Trends in Chemistry	25th February, 2011	Department of Chemistry, The University of Kalyani
7	One day seminar on Acharya Prafulla Chandra Roy	24th December, 2010	NSS, The University of Burdwan
6	Seven day's inter-college camp	26.11.2010 --01.12.2010	NSS, The University of Burdwan
5	National Seminar on Chemistry Today	18-20 March, 2010	Department of Chemistry, The University of Burdwan
4	Workshop on Gender inequality in education and the role of NSS (Sponsored by NSS, BU)	27th January, 2010	NSS Units, Kulti College
3	One day University workshop on Human Rights	10th December, 2009	NSS Unit, The University of Burdwan
2	Symposium on Polymer waste management	16-17 December, 2006	Department of Chemistry, Visva-Bharati
1	Seminar on Acharya Prafulla Chandra Ray and Chemistry Today	15th September, 2006	Indian Chemical Society