

COLLABORATIVE PROJECTS

International:

1. Effect of Manganese on Manganese Miners (*Indo-US Collaborative Programme*).

National:

1. Assessment of persistent organic pollutant – PCDDs and PCDFs in biological media (*sponsored by Dept. of Environ. & Forest, New Delhi*).

National Programme for Control and Treatment of Occupational Diseases (*Ministry of Health and Family Welfare, Govt. of India*)

1. Prevention, control and treatment of silicosis and silico-tuberculosis in agate industry. (Completed)
2. Occupational health problems of tobacco harvesters and their prevention. (Completed)
3. Capacity building to promote research, education, training at NIOH. (Completed)
4. Evaluation of occupational health problems of cycle rickshaw pullers and redesign cycle rickshaw on ergonomic principal.
5. Child labour – occupational health problems, evaluation and control.
6. Prevention and control of occupational health hazards among salt workers working in remote desert areas of Gujarat and Western Rajasthan.
7. Hazardous processes and chemicals Database generation documentation and information dissemination. (Completed).
8. Health risk assessment and development of intervention programme in cottage industries with high risk of silicosis.
9. Health risk assessment of rural and urban population due to indoor/ ambient air pollution.

COLLABORATIVE CENTRE

The Institute continues to function as a WHO Collaborative Centre for Occupational Health.

EDUCATION AND TRAINING

Training

1. A 3-months Certificate Course on “Industrial Health for Medical Officers“ was jointly organized by Gandhi Labour Institute, Ahmedabad, National Institute of Occupational Health, Ahmedabad and the Chief Inspectorate of Factories, Gujarat State, from 16th June to 15th August, 2003.
2. Indo-US training Workshop on “Environmental and Occupational Epidemiology”, organized at National Institute of Occupational Health, Ahmedabad, 13th – 16th January 2004.
3. Regional Occupational Health Centre, (E) Kolkata conducted classes for one week training course for DIH students of AIIPH&PH, Kolkata, from 16th –20th February 2004.

Education

The scientists of the Institute served as faculty member and examiner in the MIH (Masters in Industrial Hygiene) Programme conducted by Institute of Science & Technology for Advance Studies and Research (ISTAR), Vallabh Vidyanagar, Anand (Gujarat). The scientists of the Institute continue to take lecture classes for Post-Graduate and Medical students of the local Medical Colleges affiliated to Gujarat University, Ahmedabad.

Visiting Post-Graduate Trainee Officers of the PSM Department of Armed Forces Medical College, Pune were oriented to occupational health research activities and facilities available at the institute.

The scientists of the Institute served as Faculty members in the DIS (Post Graduate Diploma Course on Industrial Safety) course conducted by Gandhi Labour Institute, Ahmedabad.

LIBRARY AND INFORMATION SERVICES

Dr S K Chatterjee Library

In recognition of distinguished services of the Ex Director Dr. S.K. Chatterjee, the library of the NIOH is named as “Dr S K Chatterjee Library” by Prof N K Ganguly Director-General, ICMR on 26th July 2003.

The library of the Institute has unique and rare collection of different kinds of publications in the field of occupational health and medicine, environmental health and pollution, toxicology and allied sciences. It has a good collection of publications like books, reports and journals of international agencies like WHO, ILO, HMSO, NIOSH and others.

In the year 2003 – 04 the center subscribed 51 journals (Indian 23 and Foreign 28). Moreover a number of complimentary copies from different National as well as International agencies were received.

The library provides facilities for study and research and also up-to date information through Medline as well as Internet on Occupational Health and Environmental Health. The library is fully automated.

ENVIS CENTRE

Institute continues to host the Environmental Information Centre (ENVIS), sponsored by the Department of Environment and Forest, Govt. of India, for retrieval and dissemination of required information related to Occupational and Environmental Health.

CONSULTANCY SERVICES

➤ ***Occupational Health Survey in operating units of NALCO:***

As requested by the organization, NIOH undertook a study in the operating units of NALCO. The objective of this study was to assess the environmental and occupational health status of the employees of the operating units of NALCO. This study covered the inhabitants around the operating units also. The study encompassed environmental monitoring and epidemiological evaluation including haematological and pulmonary function assessment.

➤ ***Occupational Health Services manual for ONGC***

ONGC requested NIOH to prepare the Occupational Health Service manual for the employees of their organization. The NIOH scientists in collaboration with ONGC representatives prepared a manual, which included background, process description on land and offshore, potential hazards and health effects, preventive measures and functions of Occupational Health Services. It also included various monitoring methods for environmental assessment.

DEVELOPMENTAL ACTIVITIES

Computer Facility

During the year server was upgraded with dual processor facilities to meet the local area-networking (LAN) load. A server grade dual processor computer was also purchased to meet the requirement.

Additional four more computers and one network laser printer were added to the system. Five laser jet/desk jet printers were purchased. Besides these one multifunctional colour printer was also purchased.

National Science Day

National Science Day was celebrated on 4th March 2004. The students from different schools of Ahmedabad were invited to visit this institute. Films on Agate project and Environmental Problems were shown in order to create awareness about environmental pollution and occupational diseases.

The ROHC(E) celebrated National Science Day on 27th February 2004 and scientist delivered lectures on various aspects. Prof. A. Vajpayee, Head, Occupational Health, AIIH &PH, Kolkata presided the function.

Hindi Day

Hindi day was observed on 4th September 2003. On this occasion an essay competition was held in morning session on the topics of “Berojgari ki Samasya” and “Soochana Praudyogiki Ka Upyog avam Mahatwa”, in the evening session “Hindi Samagra Gyan Pratiyogita” was arranged for Hindi and non-Hindi speaking staff of the Institute. The prizes were awarded to winners. The Chief Guest Shri Pawan Kumar Sharma, Assistant Director (Raj-Bhasha), Ahmedabad delivered a guest lecture on “Vartaman Samay me Hindi ki Sthiti”. Besides this a workshop on Hindi was also arranged on 3rd March 2004. The Chief Guest Shri Dinesh Chandra Tripathi, Hindi Officer, ICMR, New Delhi, delivered an interesting and informative talk on “Sangh Ki Raj-Bhasha Neeti”.

Annual Day

The Annual Day of the Institute was celebrated on 20th February 2004. On this occasion sports, games and entertainment programmes for the staff and their family members were organized.

Regional Occupational Health Centre, (E) Kolkata Celebrated 24th Annual Day of the Centre, on 20th January 2004.

Vigilance Awareness Week

Vigilance Awareness Week was observed during 3rd -7th, November 2003. An essay competition was held on 4th November 2003, on the topic of "Bhrashtachar". All the interested staff of the Institute participated actively. On concluding day of the week, an interesting and informative lecture was delivered by Chief Guest Shri Pramod Shankar Mishra, Assistant Director, Central Ground Water Board, Ahmedabad, emphasizing the need of honesty, transparency and morality in day-to-day life.

Seminar Club

The Seminar Club, a regular activity of the scientists of the Institute, was continued during the year. Topics of scientific interests were chosen for the seminar. Scientists of the Institute and/or eminent persons delivered talks on topics of their interest.

PUBLICATIONS (January 2003 to March 2004)

YEAR – 2003

1. Allred M, Campolucci S, Falk H, Ganguly NK, Saiyed HN, Shah B : Bilateral environmental and occupational health program with India. *Int. J. Hyg. Environ Health*, 26, 323-332, (2003).
2. Bhatia K, Gandhi DN : Impact Factor : Views and Evaluation. *SRELS J. Information Management*, 40(3), 179-198, (2003).
3. Bhatnagar VK : Status of pesticide residues in human tissues in India. Invited Article, in Proceedings 'International Symposium on Risk Assessment of Pesticide Residues in Water and Food' Publ: ILSI, New Delhi and ILSI Risk Science Institute, Washington DC, co-sponsored by ICMR and ITRC at New Delhi, pp H-1 to H-9, (2003).
4. Bhatnagar VK, Zaidi SSA, Kashyap R, Karnik, AB, Saiyed HN: Pesticide residues in formulators and their relevance to certain biological indices. *Toxicology International*, 10(1), 47-50 (2003).
5. Chattopadhyay BP, Saiyed HN, Sk. Jane Alam : Pulmonary function study in the identified critically polluted areas of Talcher (Orissa). *Indian J. Environ. Hlth.*, 45, 235-250, (2003).
6. Chattopadhyay BP, Sk. Jane Alam : Pulmonary function tests in the assessment of respiratory functional status among female workers - a Pilot study. *Indian J. Occup and Environ. Hlth.*, 7, 17-22, (2003).
7. Chattopadhyay BP, Sk. Jane Alam, Roy Chowdhury A: Pulmonary function abnormalities associated with exposure to automobile exhaust in a diesel bus garage and roads. *Lung*, 181, 1-12, (2003).

8. Chattopadhyay BP, Sk. Jane Alam, Adhikary A, Roy Chowdhury A : Respiratory function assessment in workers exposed to storage grain dust. Proc. International Conference on Humanizing Work and Work Environment, Dec.11 14,2001 and published in 2003.
9. Desai MR, Ghosh SK : Occupational Exposure to aflatoxin producing *Aspergillus flavus* strains among maize processing workers. Cell & Molecular Biology, 49, 529 –535, (2003).
10. Desai MR, Ghosh SK : Occupational health problems due to aflatoxin related environmental microflora among rice mill workers. Ann. Agri & Environmental Health, 10,159–162 (2003).
11. Gandhi DN : An Experimental and Clinical Evaluations of Anti-asthmatic potentialities of Devadaru Compound (DC). Indian J. Physiol. Pharmacol. 47(1), 101-107, (2003).
12. Ghosh SK, Bhatnagar VK, Doctor PB, Shah MP, Amin RJ, Kulkarni PK : Cotinine, thioether and glucuronide excretion among active and passive *bidi* smokers in India. Arch. Environ. Health, 58(6), 368-372, (2003).
13. Kumar S, Nigam SK, Shaikh SA, Saiyed HN : Effect of panmasala on sperm morphology of mouse. Bull. Environ. Contam. Toxicol., 70, 1184 -1188, (2003).
14. Kumar S, Zaidi SSA, Gautam AK, Dave LM, Saiyed HN: Semen quality and reproductive hormones among welders- A preliminary study. Environ. Health Prev. Med. 8, 64-67 (2003).
15. Nag A : Fatal accidents and disabilities in Indian Industries: An alarming Scenario. In Humanizing Work and Work Environment (Eds. GG Ray, A Ganguly and PK Nag), pp 309-312, Quest Publication, Bombay, (2003).

16. Nag PK, Nag A: Psychophysical stress factors as determinants of human-computer interaction incompatibility. In Humanizing Work and Work Environment (Eds. GG Ray, A Ganguly and PK Nag), pp 268-273, Quest Publication, Bombay, (2003).
17. Nag PK, Nag A: A multi-method ergonomic review technique for work analysis and design in farming, In: Ergonomics in the digital age,(IEA:Seoul),Vol.2,ISBN89-90838-10-X-98530, (2003)
18. Nag PK, Nag A: Head Injury — The primary factor to fatalities in Indian industries, In: Ergonomics in the Digital Age, (IEA: Seoul), Vol.3, ISBN 89-90838-10-X-98530 (2003).
19. Nag A, Nag PK, Desai H: Hand anthropometry of Indian women, Ind. J. Med. Res, 117, 260-269, (2003).
20. Nag PK, Nag A: Shiftwork in the hot environment, J. Human Ergology, 30,161-166 (2001). (Published in 2003).
21. Nalini JK: Occupational health related publications in India: A bibliometric analysis of journals: SRELS J. of Information management, 40(1), 41-50, (2003).
22. Nalini JK: Impact factor of non-SCI journals: Indian Journal Occupational Health. SRELS J. Information Management, 40(4), 421-430, (2003).
23. Nibedita Naha, Roy S, Guha T, Roy Chowdhury A: Lead induced changes in seminal constituents of workers from battery and paint factories in Kolkata. Indian Biologist, 35, 41-48, (2003).
24. Parikh DJ, Saiyed HN: Recent Voluntary Initiatives in Research and Consultancy on Occupational Health. Industrial Safety Chronicle, January-March, 81-84, (2003).
25. Parikh DJ, Saiyed HN: Education and training in occupational hygiene in India. Ind. J. Occup. Environ. Med., 7, 11-15, (2003).

26. Patel KG, Yadav PC, Pandya CB, Saiyed HN: Male exposure mediated adverse reproductive out-come in carbon disulphide exposed rayon workers. *J. Environ. Biol.*, 25(4), 4, (2003).
27. Patel KG, Venkatakrisna-Bhatt H, Roy-Chowdhury A: Alteration in thyroid after formaldehyde (HCHO) treatment in Rats. *Industrial Health (Japan)*, 41(3), 295-297, (2003).
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29. Saiyed HN, Dewan A, Bhatnagar VK, Shenoy U, Shenoy R, Rajmohan HR, Patel KG, Kashyap R, Kulkarni PK, Lakkad BC: Effects of endosulfan in male reproductive development *Environmental Health Perspectives*, 111(16), 1958-1962,(2003).
30. Sinha SN, Patel TS, Desai NM, Shah SH, Patel GM, Mansuri MM, Parikh DJ, Saiyed HN: Ambient Environment Monitoring in Surat City in Gujarat, India, in National Conference on Urban Air pollution issues & Management –organized by P.G.Section in Environmental Engineering and Civil Engineering Department Sardar Vallabhai National Institute of Technology, Surat, Gujarat, India, page 4-3 to 4-6, 2003
31. Sinha SN, Patel TS, Desai NM, Shah SH, Patel GM, Mansuri MM, Parikh DJ, Saiyed HN: Study of sulfate and nitrite as a secondary aerosol, in Asian Conference on Environmental Education 7-9 November, New Delhi of Environment Education and Civil Society organized by Indian Environmental Society, New Delhi, India, page 104–107, (2003).
32. Tiwari RR, Rajnarayan R, Saiyed HN: Knowledge and practices regarding injury care among stone quartz workers. *Indian J. Med. Sci.*, 57, 300-302, (2003).

33. Tiwari RR, Rajnarain, Patel BD, Makwana IS, Saiyed HN: Spirometric measurements among quartz stone ex-workers of Gujarat, India. *J. Occup. Health*, 45(2), 88-93, (2003).
34. Tiwari RR, Pathak MC, Zodpey SP: Low back pain among cotton textile workers. *Ind. J. Occup. Environ. Med.*, 7, 27-29, (2003).
35. Tiwari RR, Pathak MC, Zodpey SP, Babar VY: Hypertension among cotton textile workers. *Indian Journal of Public Health*, 47(1), 34-36, (2003).
36. Tripathi SR, Bhattacharya SK: Synergistic effects of noise and illumination on human work performance under different times of day. *Humanizing work and work Environment* (Eds GG Ray, A Ganguly & PK Nag) Quest Publication, Mumbai, 810, (2003).
37. Verma Y, Ruparelia SG, Hargan MC, Kulkarni PK: Toxicity of Tannery effluent to waterflea (*Daphnia magna*). *J. Ecotoxicology Environ. Monit.*, 13(2), 111-115, (2003).
38. Verma Y, Ruparelia SG, Hargan MC, Kulkarni PK: Whole effluent toxicity testing (WET) of the effluents from dye industries using daphnia bioassay. *J. Indian Association Environmental Management*, 30 (2),74-76, (2003).

YEAR – 2004

1. Bhatnagar VK, Kashyap R, Zaidi SSA, Kulkarni PK, Saiyed HN: Levels of DDT, HCH and HCB residues in human blood in Ahmedabad, India. *Bull. Environ. Contam. Toxicol.*, 72, 261-265, (2004).
2. Dewan A, Bhatnagar VK, Mathur ML, Chakura T, Kashyap R, Sadhu HG, Sinha SN, Saiyed HN : Repeated episode of endosulphan poisoning. *J. Toxicol. Clinical Toxicol.*, (In Press) (2004).

3. Doctor PB, Gokani VN, Kulkarni PK, Parikh JR, Saiyed HN: Determination of nicotine and cotinine in tobacco harvesters' urine by solid phase extraction and liquid chromatography. *Journal of Chromatography B*. 802/2, 323-328, (2004).
4. Gokani VN, Doctor PB, Parikh JR, Kulkarni PK, Saiyed HN: Green tobacco sickness among Indian tobacco harvesters. Collaborative Approaches for Comprehensive Tobacco Control In India, In Chapter 4, Health Consequences. Sub-Chapter- Part-A "Assessment, 7. Other effects, by Health Related Information Dissemination Amongst Youth (HRIDAY) & Tata Memorial Centre (TMC) *in press* (2004).
5. Kumar S: Occupational Exposure and reproductive dysfunction. *Journal of Occup. Health* (Japan), 46, 1-19, (2004).
6. Kumar S, Gautam AK, Agarwal KR, Shah BA, Saiyed HN: Detection of genotoxic and clastogenic potential of Cypermethrin. *J. Environ. Biol.*, 25(2), 187-190, (2004).
7. Nag A, Nag PK: Do the Work Stress Factors of Women Telephone Operators Change with the Shift Schedules? *International J. Industrial Ergonomics*, 33(5), 449-461, (2004).
8. Nag PK, Nag A: Drudgery, Accidents and Injuries in Indian Agriculture. *Industrial Health*, 42 (2), (2004) (in Press)
9. Saha A, Sadhu HG, Karnik AB, Patel TS, Sinha SN, Saiyed HN: Erosion of nails following thallium poisoning: A case Report. *Occup. Environ. Med*, (in Press), (2004).
10. Saha A, Ramnath T, Chaudhury RN, Saiyed HN: An accident risk assessment study of temporary piece rated workers. *Industrial Health* (in Press) 2004.

11. Sathwara NG, Parikh DJ, Agarwal YK: Level of essential heavy metals in the environmental samples from western India. *Bulletin of Environmental Contamination Toxicology*, (in Press) (2004).
12. Sinha SN, Bhatt HVK: Chromatography-Mass Spectrometric techniques in aerial pollutants analysis. *J. Occup. Health (Japan)*, 46, 82-86, (2004).
13. Sinha SN: Electron Impact Ionization Mass Spectroscopy (EI-MS) studies of primaquine derivatives. *Indian Journal of Chemistry*, 43 B, 202-206, (2004).
14. Sinha SN, Dua VK: Fab mass spectral analysis of three new oxidative products of primaquine. *International Journal of Mass Spectrometry*, 232 (2), 151-163, (2004).
15. Sinha SN, Bhatt HVK: Strategic HPLC (High Pressure Liquid Chromatography) techniques in the analysis of an anti-malarial drug, primaquine and analogues. *J. Med. Sciences*, 7 (1), 3-6, (2004).
16. Verma Y, Ruparelia SG, Hargan MC, Kulkarni PK: Acute toxicity of waste waters (influent and effluent) of textile mills to water flea. *J. Ecobiology*, 16(1), *in Press* (2004).
17. Verma Y, Ruparelia SG, Hargan MC, Kulkarni PK: Determination of acute toxicity of influent and effluent of a pesticide-manufacturing unit through fish bioassay. *Pollution Res.*, 23 (1), 99-101, (2004).
18. Zaidi SSA, Sathwara NG, Kumar S, Gandhi S, Parmar C, Saiyed HN: Development of indigenous local exhaust ventilation system; reduction of welders' exposure to welding fumes. *J. Occup. Health (Japan)*, (*in press*), (2004).

HONOURS & AWARDS

1. Mr. Shirish P Ashtekar, Laboratory Technician has been awarded the Degree of 'Doctor of Philosophy' for his Ph.D. thesis – "Applicability of Thermal Indices in Human Heat Tolerance Assessment" (Life Science), dated 22 August 2003, under the supervision of Dr. P.K. Nag, Deputy Director (SG), NIOH, Ahmedabad.
2. Dr. V.K. Bhatnagar, AD served as Examiner of Ph.D. thesis (Biochemistry) of Mumbai University, Mumbai in February 2004.
3. Dr. Sunil Kumar, DD (SG) conducted viva voice examination of a Ph.D. student of Manipal Academy of Higher Education, Manipal (Karnataka) (A deemed university) at Cochin, Kerala on May 3rd 2003.
4. Dr. Sunil Kumar, DD (SG) recognized as a Ph. D. guide in Faculty of Medical Sciences by the academic committee of Amrita Viswa Vidyapeetham, Kochi, (Kerala) (Deemed University).
5. Mr. B. Ravichandran, Technical Officer of ROHC (S) has been awarded Ph. D. degree in the Faculty of Science, Jadhavpur University, Kolkata, in May 2003.

PARTICIPATION IN CONFERENCE/SEMINAR/WORKSHOP:

1. Dr. V.K. Bhatnagar, AD and Dr. Rekha Kashyap, AD, participated in Seminar "Technology Development" at NIOH, Ahmedabad on 13th May 2003.
2. Dr. V.K. Bhatnagar, AD presented a paper 'Health Risk Evaluation to Pesticides' in National Conference on 'Environmental Pollution, Prevention & Control" at Govt. Polytechnic, Aligarh Muslim University, Aligarh on 5th June, 2003.
3. Dr. Rekha Kashyap, AD, presented a research paper 'Health Risk Evaluation to Pesticides' in National Conference on 'Environmental Pollution, Prevention and Control" at Govt Polytechnic, Aligarh Muslim University, Aligarh on 5th June, 2003.
4. Dr. V.K. Bhatnagar, AD and Dr. Rekha Kashyap, AD, participated in Seminar on HPLC organized by E. Merck (India) at Ahmedabad on 13th June, 2003.
5. Dr. V.N. Gokani, DD attended the Panel Discussion AmedaVadmA on "Vehicular Pollution in Ahmedabad : Issues and Remedy, organized by Centre for Environment Education (CEE)- Ahmedabad Management Association (AMA) at Ahmedabad, on 20th June 2003
6. Dr. V.N. Gokani, DD, attended one day seminar on Cancer Research jointly organized by Gujarat Chapter of Indian associations for Cancer Research, The Gujarat Cancer & Research Institute and Gujarat Cancer Society at Ahmedabad on 9th August 2003.

7. Dr. H.N. Saiyed, Director, attended the Technical Workshop to Identify Hazardous Forms of Child Labour, in Sri Lanka, 17– 23 August 2003.
8. Dr. P.K. Nag, DD (SG) visited attended XVth triennial Congress of the International Ergonomics Association, and presented two papers — (i) Head Injury — The Primary Factor to Fatalities in Indian Industries, (ii) A Multi-method Ergonomic Review Technique for Work Analysis and Design in Farming at Seoul, Korea, 24 to 29th August 2003.
9. Dr. R.R. Tiwari, SRO, attended International Course in Cancer Epidemiology, sponsored by International Agency for Research on Cancer. Hotel Muthoot Plaza, Trivandrum, 1st – 12th September 2003.
10. Dr. A. Roy Chowdhury, DD(SG) participated in 2nd National Conference of IAP CANCL Group, organized by Indian Academy of Pediatrics, West Bengal State Branch & IAP CANCL Chapter at Kolkata, held at Institute of Child Health & Bengal Tuberculosis Association Hall and delivered a lecture on "Emerging Issue in Child Health - Related to Occupational Health Hazard" from 27– 28 September, 2003
11. Dr. Anjali Nag, SRO, received the Swedish International Development Cooperation Agencies (SIDA) fellowship for "Advanced International Training Programme on Occupational Safety and Health & Development" and attended the second period of the training program, held in Hanoi, Vietnam from 2nd October to 12th October 2003.
12. Dr. H.N. Saiyed, Director, attended the National Technical Training Workshop on Diagnosis, Management and Medical Surveillance of Pneumoconiosis and other Related Lung Diseases and delivered a talk on "Pneumoconiosis and other

related lung diseases in India- The current status and future perspectives” at Chennai 12 – 17 October 2003.

13. Dr. P.K. Gangopadhyay, DD participated in the Workshop on "Diagnosis, Management and Surveillance for Pneumoconiosis and other related Lung Disorders" organized by Sri Ramachandra Medical College and Research Institute (Deemed University), Chennai from 13th to 17th October, 2003 and delivered a lecture on "Coal Workers' Pneumoconiosis" to the participants as Faculty Member and also demonstrated the Standard ILO Radiographs of Pneumoconiosis to the participants on 13th – 16th October, 2003.
14. Dr. H.N. Saiyed, Director, attended the Symposium on Risk Assessment of Pesticides Residues in Water and Food being organized by ILSI Risk Sciences Institute, Washington DC at New Delhi on 28 – 29 October 2003.
15. Dr. V.K. Bhatnagar, AD and Dr. Rekha Kashyap, AD, participated in “Seminar on Petroleum Testing Instruments” organised by NIULAB, Baroda on 22nd October, 2003.
16. Dr. V.K. Bhatnagar, AD and Dr. Rekha Kashyap, AD participated in International Symposium on “Risk Assessment of Pesticide Residues in water and Food” organized by ILSI, New Delhi and ILSI Risk Science Institute, Washington DC, co-sponsored by ICMR, New Delhi and ITRC during 28th – 29th October, 2003.
17. Dr. H.N. Saiyed, Director, attended the Seminar on Occupational Safety and Health in the Non-ferrous Metal Industries at ILO Office, New Delhi, 5-6 November 2003.
18. Dr. A. Roy Chowdhury, DD(SG) participated in the 5th Congress of Toxicology in Developing Countries held at Guilin, China from 10th – 13th November, 2003 and delivered a lecture on "Effect of Industrial Chemicals on Male Reproduction" on 13th November, 2003.

19. Dr. V.K. Bhatnagar, AD and Dr. Rekha Kashyap, AD participated in Seminar "Dionex Chromeleon Chromatography 21 CFR Part 11 Compliance" organized by IndTech, at Ahmedabad during 24th November, 2003.
20. Dr. A.B. Karnik, DD, Mr. B.C. Lakkad, AD, Mr. Ashok Kumar, AD and Mr. A.B. Patel, SRO attended the International Symposium on Molecular Toxicology and Environmental Health, held at ITRC, Lucknow from 5 – 8, November 2003.
21. Dr. P.K. Gangopadhyay, DD and Dr. AK. Mukherjee, AD participated in a Seminar on "Industrial Health and Safety" organized by Swan Environmental Pvt. Ltd., Hyderabad at Kolkata on 7th November, 2003. Dr. Gangopadhyay delivered a lecture on "Occupational Health Problems of Miners with special reference to Coal Miners in India" and Dr. Mukherjee on "assessment of dust in mine environment with special reference to coal and asbestos" on 7th November, 2003.
22. Dr. S.N. Sinha, RO participated and presented the paper entitled "Study of sulfate and nitrite as a secondary aerosol" in Asian Conference on Environmental Education, organized by Indian Environmental Society, New Delhi, India during 7–9 Nov. 2003.
23. Dr. A. Roy Chowdhury, DD(SG) participated in 22nd Annual Conference of STOX held at Madras Veterinary College, Chennai and delivered a lecture on "Amelioration of chemical induced hazards on male reproduction" 20–22nd Nov, 2003.
25. Dr. P.K. Gangopadhyay, DD participated in the "Celebration of the International Day of the Disabled 2003" organized by the Vocational Rehabilitation Centre for Handicapped, Ministry of Labour, Govt. of India and delivered a talk on "Rehabilitation of different types of Disabled with special reference to Occupational Health Hazards" on 3rd December, 2003.

26. Dr. A. Roy Chowdhury, DD(SG) participated in the XVth Annual Conference of The Physiological Society of India held in the Department of Physiology, Al-Ameen Medical College, Karnataka from 4th to 6th December, 2003 and delivered a guest lecture entitled "Pathophysiological consequences of reproductive system under the exposure of industrial chemicals" on 5th December, 2003.
27. Dr. P.K. Gangopadhyay, DD participated in the Annual Conference 2003 organised by IAOH, Calcutta Branch with the theme "Recognise and Prevent Occupational and Environmental Health Hazards" and discussed as a panelist in the panel discussion on "Prevention and Early detection of Occupational and Environmental Health Hazards" on 6th December, 2003.
28. Dr. Rekha Kashyap, AD, presented a paper in National Conference on 'Urban air Pollution issues and Management held at Surat during 11 – 13th December 2003.
29. Dr. S.N. Sinha, RO participated in National Conference on Urban Air pollution issues & Management and presented a paper entitled "Ambient Environment Monitoring in Surat City in Gujarat, India," organized by P.G.Section in Environmental Engineering and Civil Engineering Department, Sardar Vallabhai National Institute of Technology, Surat, Gujarat, India during 11 – 13th December 2003.
30. Dr. H.N. Saiyed, Director, attended the SECL- Occupational Health Conference at MDI, Indira Vihar, Bilaspur on 13 –14 December 2003.
31. Dr. A. Roy Chowdhury, DD(SG) participated in the International Symposium on Emerging Strategies for Improving Productivity, Quality & Reliability held on 12 – 14 December 2003 at CGCRI,

- Jadavpur, Kolkata and delivered a lecture on "Occupational health problem in work place & relation with industrial productivity" on 13th December, 2003.
32. Dr. V.K. Bhatnagar, AD participated in "Seminar on Drinking Water Solutions" organized by Agilent Technologies, Mumbai during 17th December 2003.
 33. Dr. H.N. Saiyed, Director, delivered a Guest Lecture in Plenary Session on "Challenging Frontiers in Biomedical Research at the 91st Session of the Indian Science Congress" to be held on Chandigarh 3 –7 January 2004.
 34. Dr. P.K. Nag DD (SG) and Dr. (Mrs) Anjali Nag, SRO, attended 91st Indian Science Congress held in Chandigarh, from 3-7 January 2004.
 35. Dr. S.S.A. Zaidi, AD attended the 91st Session of Indian Science Congress Association held at Chandigarh, India and presented a paper entitled "Development of Prototype Model of Portable and Mobile Local Exhaust Ventilation System for Capturing Welding Fumes" from 3 – 7, January 2004.
 36. Dr. S.N. Sinha, RO, attended the 91st Session of Indian Science Congress Association held at Chandigarh, India and presented a paper entitled "GC-MS studies of Volatile Organic Compounds in Indoor air" (Environmental Section), from 3 – 7, January 2004.
 37. Dr. H.N. Saiyed, Director, attended the Workshop on Environmental Epidemiology at NIE Chennai from 7 – 10th January 2004.
 38. Dr. V.N. Gokani, DD Mr. P.B. Doctor, SRO and Mr. A.B. Patel, SRO attended seminar on "Transportation of Biological Materials" sponsored by World Courier (I) Pvt. Ltd, organized by

Gujarat Cancer Society and Gujarat Cancer Research Institute (GCRI), Ahmedabad on 9th January 2004.

39. Dr. Sunil Kumar, DD, Mr. P.K. Kulkarni, DD, Dr. H.G. Sadhu, AD, Dr. V.K. Bhatnagar, AD, Dr. R.R. Tiwari, SRO, Dr. Asim Saha RO, Mr. K.R. Bhatia, Statistical Assistant, participated in the INDO-US workshop on "Environmental and Occupational Epidemiology" held at NIOH, Ahmedabad, from 13 – 16th January 2004.
40. Dr. P.K. Gangopadhyay, DD acted as an expert in the Special Medical Board constituted by ESI Corporation (Eastern Region) for diagnosis and award of compensation to the IP-Board held at ESI at Joka ESI Hospital, Kolkata on 21– 22 January, 2004.
41. Dr. A.K. Mukherjee, AD delivered a lecture entitled "Management of solid and hazardous wastes" at Central Staff Training & Research Institute (CST ARI), Kolkata in a training course on "Energy Management & Environment Protection" on 22nd January 2004.
42. Dr. H.N. Saiyed, Director, attended the 54th National Conference of the IAOH at Hotel Taj Malbar, Kochi, Kerala from 22nd to 25th January 2004.
43. Dr. V.N. Gokani, DD attended the 54th Annual Conference of Indian Association Of Occupational Health (IAOH) and presented a paper entitled "Popularization of use of gloves among tobacco harvesters to prevent the absorption of nicotine through dermal route and green tobacco sickness." held at Kochi, Kerala, from 22 – 25th January 2004.
44. Dr. S.R. Tripathy, AD, attended the 54th Annual Conference of Indian Association Of Occupational Health (IAOH) and presented a paper entitled "Noise and Heat Stresses: Certain

Psycho-Physiological Consequences in Human” held at Kochi, Kerala, from 22 – 25th January 2004.

45. Dr. S.S.A. Zaidi, AD, attended the 54th Annual Conference of Indian Association Of Occupational Health (IAOH) and presented a paper entitled “Health Risk and Thyroid Hormone Profile Among Spray Painter. Proceeding of IVth International Conference on Occupational Health, held at Kochi, Kerala from 22 – 25th January 2004.
46. Dr. R.R. Tiwari, SRO, attended the 54th Annual Conference of Indian Association Of Occupational Health (IAOH) and presented a paper entitled “Injuries among child labourers of gem polishing industries. Proceeding of IVth International Conference on Occupational Health, held at Kochi, Kerala from 22 – 25th January 2004.
47. Dr. Asim Saha RO, attended the 54th Annual Conference of Indian Association of Occupational Health (IAOH) and presented a paper entitled “Thallium poisoning among the villagers of western Gujarat.” Kochin, Kerala, from 22nd – 25th January 2004.
48. Dr. N. Mohan Rao, DD, attended the 54th Annual Conference of Indian Association of Occupational Health (IAOH) and presented a paper entitled “Impact of industrial pollution on lung function” held at Kochi, Kerala from January, 22–25, 2004.
49. Mr. A.B. Patel SRO attended the workshop on ‘Patent Awareness’ organized by Gujarat Council on Science and Technology, Gandhinagar (GUJCOST) at RC Technical Institute, Ahmedabad on 30th January, 2004.
50. Dr. A. Roy Chowdhury, DD(SG) participated in 3rd International Congress of Asian Society of Toxicology (ASIATOX III) from 1st to 6th February, 2004 in Thailand and presented a paper on

"Male Reproductive Toxicity - a growing concern" on 3rd February, 2004.

51. Dr. A. Roy Chowdhury, DD(SG) participated in Annual Meeting of Directors/Officer-in Charges of ICMR Institute held at Central Jalma Institute for Leprosy, Agra from 6th to 7th February, 2004.
52. Mr. P.B. Doctor, SRO attended seminar on " Biotechnology- A Tool of Environmental Research " organized jointly by International society for Research on Civilization Diseases and Environment and Xavier Research Foundation, Ahmedabad on 7th & 8th February 2004.
53. Dr. H.N. Saiyed, Director, attended the Workshop on Health aspects of Child labour in Amsterdam, Netherlands from 26 – 27th February, 2004.
54. Dr. B.P. Chattopadhyay, SRO participated in the 11th State Science and Technology Congress and delivered a lecture on "Assessment of the respiratory functional status among the workers exposed to storage grain dust" held at Kolkata on 28 – 29 February, 2004.
55. Dr. A. Roy Chowdhury, DD(SG) and Dr. A.K. Mukherjee, AD attended in "Sun Developer Day" - A SUN Technology Seminar on Java Software organized by Sun Microsystem at Oberoi Grand, Kolkata on 15th March 2004.
56. Dr. H.N. Saiyed, Director, attended the Seminar & Exhibition at Nansey & Associates at Jamnagar to deliver a lecture in Gujarati pertaining to Occupational hazards and their remedies (Electroplating) on 21st March 2004.
57. Dr. A. Roy Chowdhury, DD(SG) participated in a National Environment Awareness Seminar on "Water: Elixir of Life" organized by The Science Association of Bengal held at Jadavpur University, Kolkata on 27th March 2004.

FOREIGN VISITS:

1. Dr. H.N. Saiyed, Director, attended the Technical Workshop to Identify Hazardous Forms of Child Labour, in Sri Lanka, 17 – 23 August 2003.
2. Dr. P.K. Nag, DD (SG) attended XVth triennial Congress of the International Ergonomics Association, and presented two papers — (i) Head Injury — The Primary Factor to Fatalities in Indian Industries, (ii) A Multi-method Ergonomic Review Technique for Work Analysis and Design in Farming at Seoul, Korea from 24 to 29th August 2003.
3. Dr. Anjali Nag, SRO, received the Swedish International Development Cooperation Agencies (SIDA) fellowship for “Advanced International Training Programme on Occupational Safety and Health & Development” and attended the second period of the training program, held in Hanoi, Vietnam from Oct 2 – Oct 12, 2003.
4. Dr. H.N. Saiyed, Director, attended the Intercountry consultation on Human Health and Chemical Safety in Bangkok, Thailand, 30 – 31st October 2003
5. Dr. A. Roy Chowdhury, Dy. Director (SG) participated in the 5th Congress of Toxicology in Developing Countries held at Guilin, China from 10th – 13th November 2003 and delivered a lecture on "Effect of Industrial Chemicals on Male Reproduction" on 13th November, 2003.
6. Dr. H.N. Saiyed, Director, attended the WHO Asia Pacific Meeting to strengthen Occupational Health in the region, in collaboration with ILO, at Phuket, Thailand, 16 –18 Dec. 2003.
7. Dr. H.N. Saiyed, Director, attended the Workshop on Health aspects of Child labour in Amsterdam, Netherlands from 26 – 27th February 2004.

MAJOR MEETINGS:

1. Dr. H.N. Saiyed, Director, attended the WHO Inter-country Consultation on Regional Strategies for Strengthening Occupational Health in SEAR Countries: WHO/SEARO, New Delhi, 28 – 29 April 2003.
2. Dr. V.N. Gokani, DD attended a meeting of Authors and Editors of “Collaborative Approaches for Comprehensive Tobacco Control In India” at New Delhi. Agencies, Tata Memorial Centre (TMC) Mumbai, Health Related Information Dissemination Amongst Youth (HRIDAY) New Delhi, The Ministry of Health and Family Welfare, Government of India & Centers for Disease Control and Prevention (CDC), USA June 3-5, 2004,
3. Dr. H.N. Saiyed, Director, attended the Brainstorming Session on Persistent Organic Pollutants (POPS) June 24, 2003 World Bank Office, New Delhi.
4. Dr. H.N. Saiyed, Director, attended the 32nd Meeting of the Central insecticides Board on 2nd July, 2003 at 10.30AM at Nirman Bhavan, New Delhi.
5. Dr. H.N. Saiyed, Director, attended the meeting of Governing Body of ICMR in Ministry of Health & Family Welfare, Nirman Bhawan, New Delhi on 11th July, 2003

6. Dr. H.N. Saiyed, Director, attended the Meeting of the Scientific Advisory Board of the ICMR, 23rd July, 2003.
7. Dr. V.K. Bhanagar, AD participated in PRC Meeting at ICMR, New Delhi on 21st July, 2003.
8. Dr. H.N. Saiyed, Director, attended the Ministry of the Inter-ministerial Coordination Committee on "Environment and Human Health at Ministry of Environment & Forests, Nirman Bhavan, New Delhi, 4th August, 2003.
9. Dr. H.N. Saiyed, Director, attended the 32nd adjourned Meeting of the Central Insecticides Board at Nirman Bhawan, New Delhi on 27th August, 2003.
10. Dr. H.N. Saiyed, Director, attended the Meeting of the Research Council of ITRC, Lucknow, 1 – 2 September 2003.
11. Dr. H.N. Saiyed, Director, attended the Second Meeting of Environment Protection and waste management sectional committee, CHD 32 in Manak Bhavan, Bureau of Indian Standards, New Delhi on 5th September 2003.
12. Dr. H.N. Saiyed, Director, attended the meeting for Finalization of National Policy on Occupational Safety and Health (OSH)-Conference on 17th September 2003, Vigyan Bhavan, New Delhi.

13. Dr. H.N. Saiyed, Director, attended the Scientific Advisory Committee of Regional Medical Research Centre, Dibrugarh (Assam), 9 – 10th October 2003.
14. Dr. V.K. Bhatnagar, AD and Dr. Rekha Kashyap, AD participated in the meeting of “Joint Parliamentary Committee on Soft Drinks” in Parliament Annexe, New Delhi on 29th October, 2003.
15. Dr. V.K. Bhatnagar, AD participated in 4th Meeting of Drinks and carbonated Beverages – Sectional Committee, FAD 14” at BIS Regional Office, Bangalore on 8th November, 2003.
16. Dr. V.K. Bhatnagar, AD participated in 5th Meeting of Drinks and carbonated Beverages – Sectional Committee, FAD 14” at BIS Office, New Delhi on 6th December, 2003.
17. Dr. H.N. Saiyed, Director, attended the Fifth meeting of Drinks and Carbonated Beverages Sectional Committee, FAD 14 at BIS, New Delhi on 10th December 2003
18. Dr. H.N. Saiyed, Director, attended the 34th Research Council Meeting of ITRC, Lucknow, 9th December, 2003.
19. Dr. V.K. Bhatnagar, AD participated in the meeting on “BIS - Discussion of Expert panel of FAD 14” at NIOH, Ahmedabad , during 3th – 4th February, 2004.

20. Dr. H.N. Saiyed, Director, attended the Seventh Meeting of Drinks & Carbonated Beverages Sectional Committee, FAD 14 at BIS, New Delhi on 11th February 2004.
21. Dr. H.N. Saiyed, Director, attended the Seminar on Occupational Safety and Health in the Non-ferrous Metal Industries at ILO Office, New Delhi, 5-6 November 2003.
22. Dr. H.N. Saiyed, Director, delivered the Guest Lecture during SECL- Occupational Health Conference at MDI, Indira Vihar, Bilaspur on 13 – 14 December 2003.
23. Dr. H.N. Saiyed, Director, delivered a Guest Lecture in Plenary Session on “Challenging Frontiers in Biomedical Research at the 91st Session of the Indian Science Congress” to be held on Chandigarh 3–7 January 2004.
24. Dr. H.N. Saiyed, Director, attended the Workshop on Environmental Epidemiology at NIE, Chennai from 7 – 10th January 2004.
25. Dr. H.N. Saiyed, Director, delivered Keynote address during 54th National Conference of the IAOH held at Hotel Taj Malbar, Kochi, Kerala , on 2nd January 2004.
26. Dr. H.N. Saiyed, Director, attended the Workshop on Health aspects of Child labour in Amsterdam, Netherlands from 26 – 27th February 2004.

27. Dr. H.N. Saiyed, Director, attended the Meeting on Study on hazardous processes in selected sectors employing child labour at DGFASLI, Mumbai on 11th March 2004
28. Dr. H.N. Saiyed, Director, attended the Seminar & Exhibition at Nansey & Associates, Jamnagar to deliver a lecture in Gujarati pertaining to Occupational hazards and their remedies (Electroplating) on 21st March 2004.

WORKSHOP/SYMPOSIUM/CONFERENCE ORGANISED

1. Indo-US training Workshop on “Environmental and Occupational Epidemiology”, organized at National Institute of Occupational Health, Ahmedabad, 13th – 16th January 2004.
2. One day symposium on “Health status of cycle rickshaw pullers on National Perspectives” was organized by Regional Occupational Health Centre, (E) Kolkata on the occasion of 24th Annual Day Celebrations of the Centre, 20th January 2004.
3. Regional Occupational Health Centre, (E) Kolkata conducted classes for one week training course for DIH students of AllPH&PH, Kolkata, from 16th –20th February 2004.
4. Regional Occupational Health Centre, (E) Kolkata and Indian Association of Occupational Health, Kolkata branch jointly organized 6th Orientation Course on Occupational and Environmental Health” in collaboration with Directorate of Factories, Govt. of West Bengal, from 22nd – 27th, March 2003.