



INDIAN CENTRE FOR PLASTICS IN THE ENVIRONMENT



Plastics *for* **Environment**
REUSE • RECYCLE • RECOVER



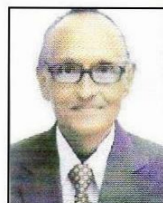


ICPE Office Bearers



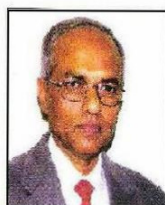
Mr. K. G. Ramanathan

*President,
Governing Council*



Mr. M. P. Taparia

*Chairman,
Executive Committee*



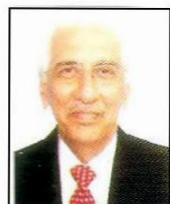
Mr. S.K.Ray

*Executive Secretary,
Member Executive Committee*



Mr. P. P. Kharas

*Hon. Treasurer /
Member Executive Committee*



Mr. Vijay Merchant

*Member - Governing Council,
NGO Projects*

ICPE Secretariat



Mr. T. K. Bandopadhyay
Sr. Technical Manager,
Mumbai



Mr. A. Guha
Administrative Officer,
Delhi



Ms. Savita Pradeep
Technical Manager,
Delhi



INDIAN CENTRE FOR PLASTICS IN THE ENVIRONMENT



Vision

To improve the knowledge and understanding of the environmental benefits of plastics and to represent the plastics industry in promoting responsible use and recovery of plastics resources.

Mission

To work in partnership with government and local bodies, non-governmental organizations and industry to advance solid waste management solutions that optimise Reuse, Recycling and Recovery, for sustainable development.

To Provide information on plastics, environmental performance, attributes and benefits in resource conservation over the entire life cycle of plastic products.

To encourage sustainable plastics recycling.



About ICPE

- The Genesis
- Our Charter
- Our Objectives

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- Founding Members
- The Constitution GC / EC
- Sources of Funds
- Key Industry Partners
CPMA and PIF
- International Linkages

ICPE - Programmes & Activities

- Technical Programmes
 - R & D Programmes
 - Standards & Specifications
 - Technical Training & Workshops
 - Technical Publications
 - Pilot Projects
 - Life Cycle Analysis

ICPE - Reaching Out to Community

- Communication, PR & Promotional
- Regulatory & Liaison
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- Website
- Communication Programmes
- ICPE & Government
- Advisory Council for Research & Technology

ENVIS - Environmental Information System

Media Campaign

Members



The Genesis

The Indian Centre for Plastics in the Environment (ICPE) set up on recommendation of a Task Force constituted by The Ministry of Environment and Forests (MOEF), is a body registered under Societies Act on 27 January 1999.

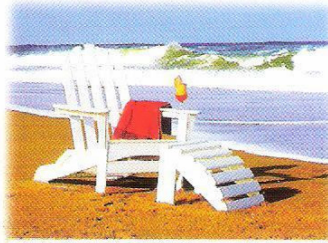
It is a nodal agency recognised by the Government of India to handle all issues related to Plastics and Environment in the country.

Our Charter

To help sustain an environment friendly image of plastics by highlighting the positive role of plastics in conserving resources and its 100% recyclability.

Our Objectives

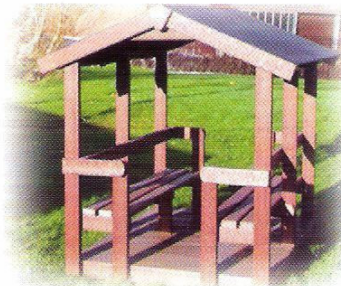
- Encourage, promote and support up gradation of plastics waste management in India.
- Develop and sustain a respectable and environmental friendly image of the plastic industry through mass environment education and awareness programmes.
- Associate and seek the co-operation of the plastics industry with the common objective of promoting the image of the plastic waste management / plastic industry.
- Interact regularly with the relevant government departments and committees on the subject of plastics and plastics waste.
- Provide, monitor & promote social, environmental & technological inputs in respect of the plastic industry.
- Develop and encourage standards/ specifications/ guidelines for plastic waste/ recyclates for applications in various products.
- Sponsor / undertake R & D work in the area of plastics in general & plastics waste management in particular.
- Develop and encourage codification system for assisting recycling in critical and non-critical applications.
- Collect, collate, publish and disseminate statistical data and technical information on Plastic waste industry / Plastic industry.
- Circulate information relating to Plastics Waste Industry / Plastics Industry for the benefit of manufacturers, consumers and regulatory bodies.
- Establish / maintain contacts / liaison and exchange information with similar bodies globally in the field of Environmental issues and strategies in respect of Plastics Waste Management / Plastic Industry.



Water Storage



Household Items





Our Resources / Capital

Founding Members

The Founder members of ICPE are The Chemicals and Petrochemical Manufacturers Association (CPMA), an apex body representing the chemicals & petrochemical producers and Plastindia Foundation (PIF), the apex body of Plastics Processing Industry

Established in 1993 CPMA represents the INR 50,000 crores (USD 10 bn) worth Indian Petrochemical industry it plays a central role, providing real time linkages between the industry, the Government and the society. It interacts with the policy makers and industry associations to develop and maintain harmonious and conducive business conditions.

Plastindia Foundation is an apex body of the Indian Plastics Industry, formed by major national Associations, Institutions and Organizations connected with plastics, with the common objectives to promote the development of the Plastic Industry and to assist the growth of plastics and related material and their products.

The policy frame-work and working of the ICPE are guided by the Governing Council and an Executive Committee. The GC comprises 16 members drawn from CPMA, PIF, Ministry of Environment and Forests (MOEF), Department of Chemicals and Petrochemicals (DCPC), National Chemical Laboratories (NCL), Indian Institute of Packaging (IIP), University Department of Chemical Technology (UDCT), and a Product Packer / End user.

The 12 members Executive Committee has representations from CPMA, PIF, Central Pollution Control Board (CPCB), Central Institute of Plastics Engineering Technology (CIPET) and Waste Management Experts.

Sources Of Funds

The activities of ICPE are fully funded by the Plastic industry both in terms of Seed Capital and Sustaining Funds. ICPE is registered under Societies Registration Act, and donations to ICPE are exempted under Section 80G/35 AC.

Key Partners

All major manufacturers of chemicals, petrochemicals (plastic resin and raw materials), plastic processors and converters and manufacturers of processing machinery, plastic recyclers, major / key product packers, End-users and OEMs are our industry partners.



Indian Centre for Plastics in the Environment - Office & Conference Room.



Display of Magazines & other Publications in ICPE.



CPMA

- Reliance Industries Limited
- Indian Petrochemicals Corporation Limited (Now amalgamated with Reliance Industries Ltd.)
- Gas Authorities of India Limited
- Haldia Petrochemicals Limited
- Supreme Petrochem Limited
- Finolex Industries Limited
- LG Polymer (India) Private Limited
- DCM Shriram Consolidated Limited
- National Organic Chemicals Industries Limited

Plastindia Foundation

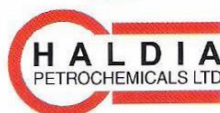
- Organisation of Plastics Processors of India, Mumbai
- The All India Plastics Manufacturers' Association, Mumbai
- Gujarat State Plastics Manufacturers' Association, Ahmedabad
- Indian Plastics Federation, Kolkata
- The Plastics Export Promotion Council, Mumbai
- Indian Plastics Institute, Mumbai
- Central Institute of Plastics Engineering & Technology, Chennai

International Linkages

One of the charter objectives of ICPE is to establish / maintain contacts / liaison and exchange of information with similar bodies globally in the field of Environmental issues and strategies in respect of Plastics Waste Management / Plastic Industry. In accordance with this objective, ICPE has established overseas linkages and correspondentship with leading international institutes / associations dealing with plastics and environment. This exercise aims to build up, transplant and cross-pollinate on a common global platform covering regulatory issues, standards & specifications, technical & technological developments, communication initiatives and community programs for the purpose of betterment of society & environment. Some of these institutes / associates include interalia Association of Plastics Manufacturers in Europe (APME), Plastic Waste Management Institute (PWMI) - Japan, American Plastics Council (APC) USA, Canadian Plastic Council (CPC), The Vinyl Institute, USA and European Vinyl Council (EVC).



Reliance Industries Limited



OPP



GSPMA





ICPE Programmes & Activities

Technical Programs

The ICPE charter lays great emphasis on technical programs:

- To support upgradation of plastic waste management in India.
- Provide monitor & provide social, environmental & technological inputs in respect of the Plastic Industry.
- Develop and encourage standards/specifications/guidelines for plastic waste/recyclates for applications in various products.
- Sponsor / undertake R & D work in the area of plastics in general & plastics waste management in particular.
- Develop and encourage codification system for assisting recycling in critical and non-critical applications.
- Collect, collate, publish and disseminate statistical data and technical information on Plastic waste industry / plastic industry .To meet these objectives, ICPE has already launched or is in the process of launching and is committed to various technical programs & activities.

■ R & D Programmes :

ICPE has already sponsored research & development programs at UDCT, Mumbai for converting polyethylene carry bag waste into synthetic lumber and wax. The research program at the micro lab level has been completed satisfactorily. ICPE intends to continue sponsorship of similar programs with leading R & D institutions and laboratories the country.

■ Standards & Specifications :

ICPE has been instrumental in developing the packaging guidelines and also the BIS Recycling Standards (IS 14534 / 14535) in the country. ICPE is also represented on the Bureau of Indian Standards - Plastic Sectional Committee (PCD-12). The institution will continue various initiatives in developing and packaging standards & specifications in the country in line with International developments.

■ Technical Training & Workshops :

ICPE has already conducted and will continue to conduct at regular intervals technical training workshops in the area of plastic materials & processing, plastics recycling and plastic waste management. These workshops are designed for Industry members (plastic processors, recyclers), end-users, nodal agencies and general public to bring about enhanced knowledge / skills in the respective fields.

■ Technical Publications :

ICPE publishes from time-to-time technical & scientific presentation materials, booklets and other publications to bring about comprehensive technical awareness in the area of plastics & environment. These publications are used both for education and mass communication programs.

■ Life Cycle Analysis :

ICPE commissions leading institutions to carry out Life Cycle Analysis (LCA) for various materials. Two such studies have been completed with IIT Delhi in the area of flexible packaging v/s. traditional packaging material.

■ Pilot Projects :

ICPE has committed to several pilot & completed projects across the country. Some of the major programs include:

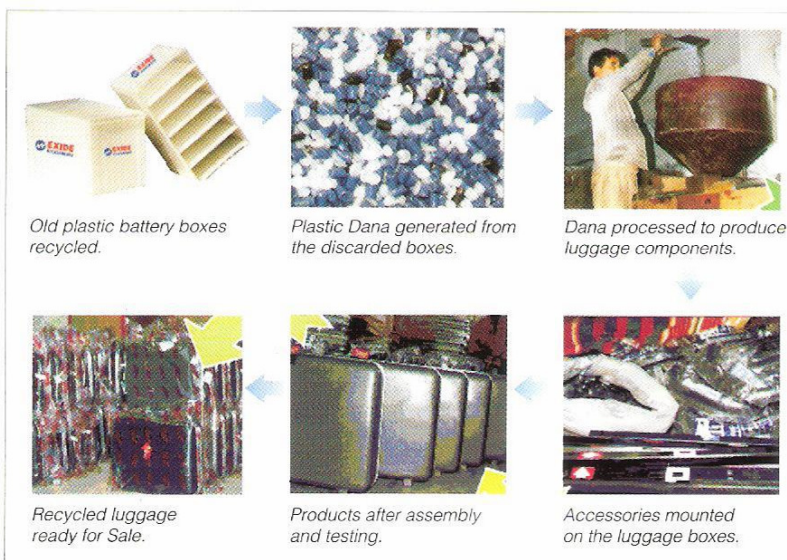
- Compactor for crushing & bailing of waste plastic bottles, glasses & cups in area like Railway Stations. One of such compactor has been successfully designed, installed and operated at Churchgate, Mumbai.
- Pilot Incineration Project is proposed for one of the metros in co-operation with local authorities.
- Plastic waste will be utilised to construct long life superior test roads under the auspices of a central nodal agency (this is based on a know-how developed by local entrepreneur).
- A mini recycling project for multilayer films / laminates / pouches / sachets is planned along with one of the leading industrial research institute in Delhi.
- Up gradation of tiny / small recycling units.



Incinerator.

Fuel from Plastics waste.

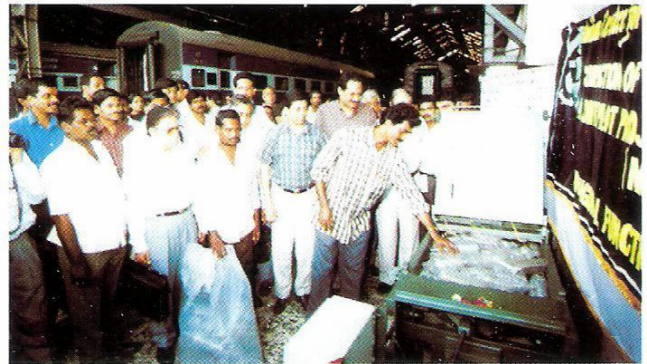
Tar Road with Plastics Waste, Mumbai.



Plastic Battery boxes recycled into affordable luggage.



Awareness Programme - Kolkata.



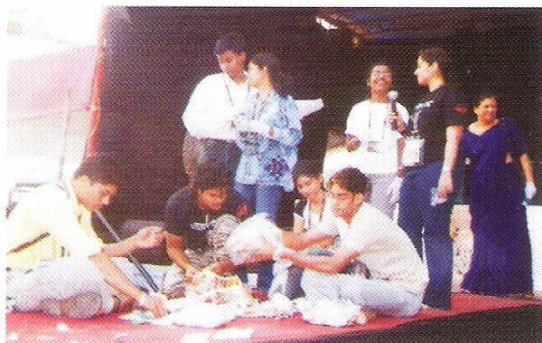
Compacter Project - Mumbai Central Railway Station.



Awareness Programme - Hyderabad.



Awareness Programme - Kolkata.



Initiatives in Plastics Waste Management at Ruia College, Matunga, Mumbai.



Dry Waste Management Project at Mumbai Wards.



ICPE Reaching Out To Community

Communication, PR & Promotional

ICPE brings out publications that help remove apprehensions regarding any environmental negatives of plastics. These are published in English, Hindi and some major regional languages.

ICPE organizes Press conferences in major cities to disseminate information on positive environmental attributes of plastics for the benefit of consumers, bureaucrats, municipal authorities and NGOs.

ICPE promotes lectures, seminars in collaboration with CIPET & other related Institutes.

ICPE supports, sponsors and participates in International and National seminars in collaboration with other agencies. It also participates in plastic exhibitions held from time to time in different parts of the country.

ICPE has engaged the expert services of leading communication consultants Burson Marsteller Roger Pereira (BMRP) for management of its complete PR & communication programmes and media campaigns.

Regulatory and Liaison

ICPE liaises with regulatory agencies for resolving issues related to plastics and environment. It encourages the industry to conform to the guidelines issued by the regulatory agencies from time to time.

Newsletter

ICPE publishes "Eco Echoes" - a quarterly Newsletter and circulates it widely for the benefit of the manufacturers, consumers and regulatory authorities concerned with plastics and plastic waste in India.

On-line ICPE News Bulletin (monthly) has been launched.

Publications :

List of ICPE Books, Monographs and Study Reports published under ICPE Sponsorship.

Monograph :

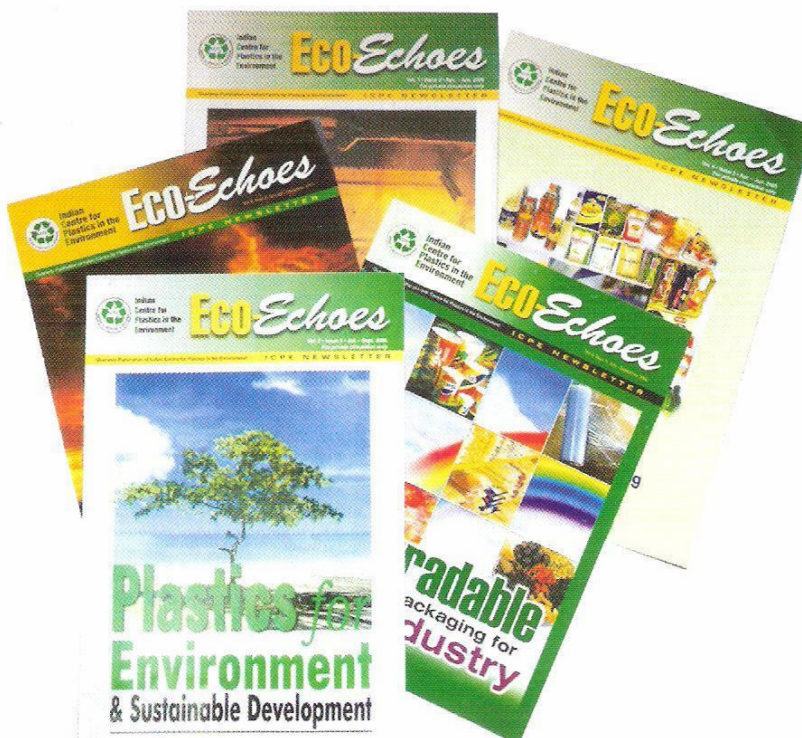
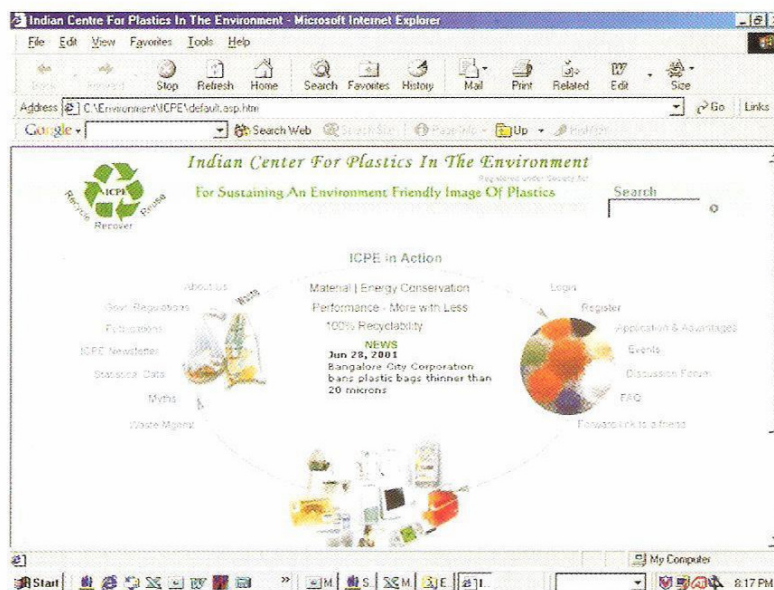
Plastics for Environment and Sustainable Development : ICPE and Central Institute of Plastics Engineering and Technology, Chennai (254 pages)

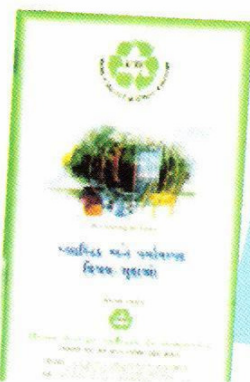
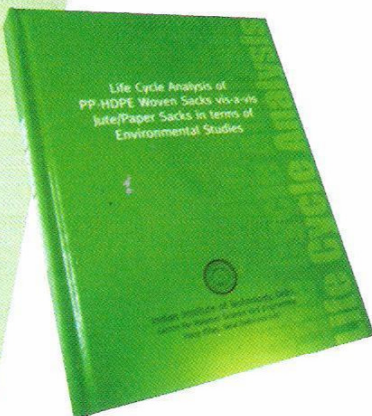
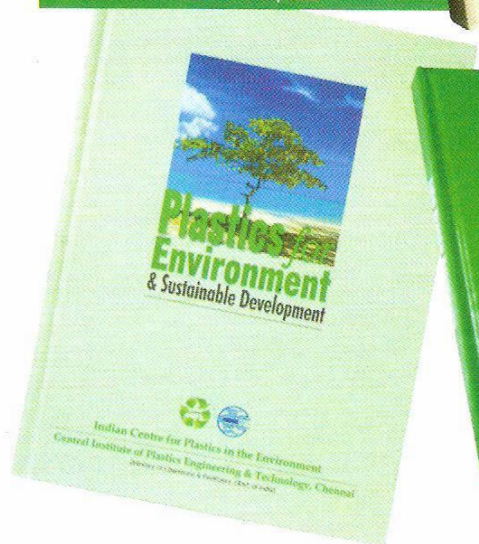
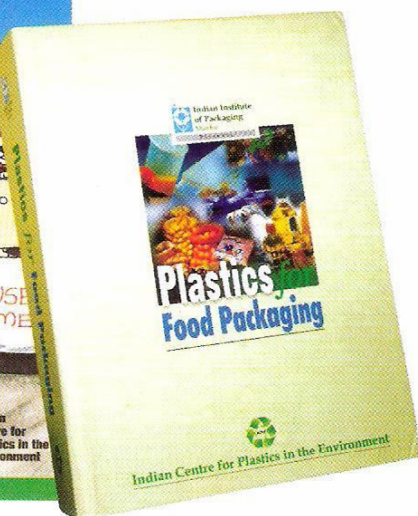
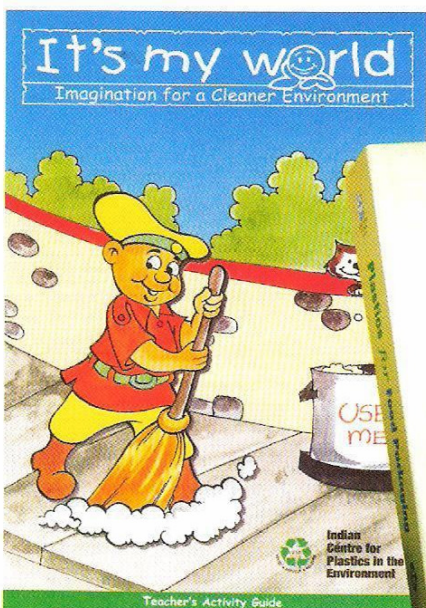
Compendium :

Plastics in Food and Healthcare Packaging - 4 Volumes (755 pages) : ICPE

Books :

1. Plastics for Food Packaging ICPE and Indian Institute of Packaging, (IIP), Mumbai (531 pages)





2. Life Cycle Analysis of PP-HDPE Woven Sacks vis-à-vis Jute/Paper Sacks in terms of environmental Studies, Indian Institute of Technology, Delhi. (165 pages)
3. Life Cycle Analysis of Plastics in Packaging by Prof. A. K. Ghosh, IIT Delhi. (234 pages)
4. Study on Conservation of Land, Forests, Water and Natural Resources by Prof. R. P. Singh, formerly Head, Materials Centre, IIT, Kharagpur and presently, Vice-Chancellor, University of Lucknow. (666 pages)
5. Environmental Aspects of Plastics Processing, - by Shriram Institute of Industrial Research, (SIIR), New Delhi (124 pages)

Study Reports :

1. A Brief Study on LCA of Polymer Products by M/s. Ernst & Young (46 pages)
2. Indian Plastics Industry Vision 2012, A Report by CRISIL (120 pages)

Publications coming up shortly :

1. Plastics in Micro Irrigation by Indian Agriculture Research Institute (IARI), Pusa
2. Study on Biodegradable Plastics by National Chemical Laboratory, (NCL), Pune
3. Study on Safe Use of Food & Food Products, by Central Food Technological Research Institute, (CFTRI), Mysore
4. Study on Plastics in Health Care and Safety by IIT (Delhi) / Indian Council of Medical Research (ICMR)

Website

The Website of ICPE is <http://www.icpenviro.org> Designed as an interactive site, it aims to disseminate information on all aspects of plastics and plastic waste including the latest news concerning plastic. The ICPE websites has linkages with reputed websites like <http://exchangenext.com>

ICPE also maintains two more websites under ENVIS programme.



COMMUNICATION PROGRAMMES

- School / Colleges

ICPE regularly conducts awareness programmes in schools and colleges with emphasis on developing the right attitude towards plastics in general and encouraging the students to debate on plastic solid waste management, littering habits etc.

- NGOs

ICPE works in close co-ordination with some reputed NGOs to develop community based Programmes to generate Public awareness on Plastic disposal.

In Mumbai, for instance, ICPE has demonstrated how a tripartite partnership with the Municipal Authorities and NGOs can tackle the Solid Waste Management Problem. ICPE will now be participating in replication of this project in other areas of Mumbai.

“Nagar” (NGO Alliance for Governance and Renewal) provided interaction and co-ordination amongst various participating agencies.

“AYBI” (Association of Youth for a Better India) to generate the public awareness in the Cuffe Parade area through School children.

“SMS” (Stree Mukti Sanghatana) provided ongoing supervision for the rag-pickers in the project.

ICPE has demonstrated that plastic is recyclable in an environmentally friendly manner.

ICPE & GOVERNMENT

ICPE has been set up under the aegis of Ministry of Environment & Forest (MOEF), Government of India. In its day-to-day functioning as also long term & strategic planning and activities, the Centre has to interface with various Ministries / Government agencies / departments covering regulatory and related issues. The primary interface is with the Ministry of Environment & Forest (MOEF) - both at the central & state level, Central Pollution Control Board (CPCB) & various State Pollution Control Boards (SPCBs), the parent Ministry of Chemical & Fertilizers - Department of Chemical & Petrochemicals (DCPC) & Bureau of Indian Standards (BIS) under Ministry of Industry.

ICPE is represented in the following BIS Committees :

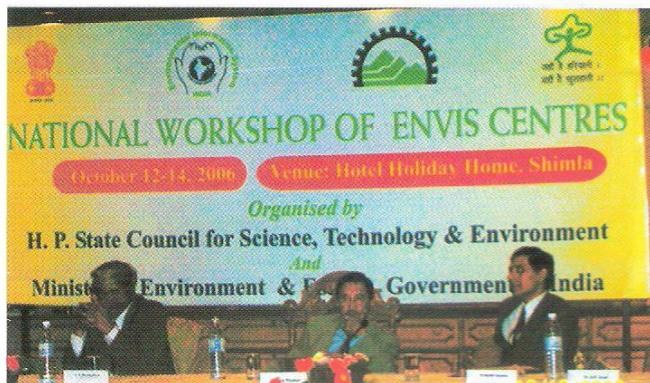
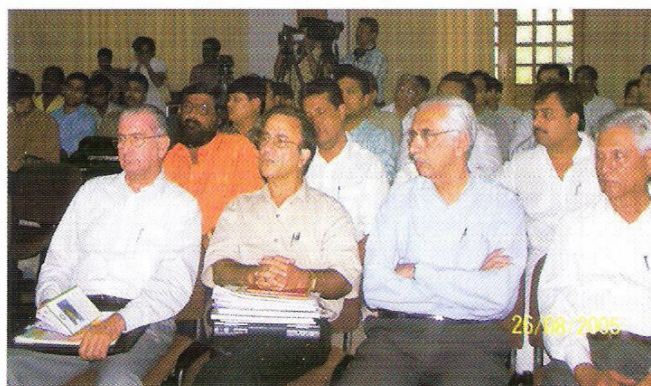
- 1 PCD 12:6 Sectional Committee on Degradable Plastics
- 2 PCD12:7 Sectional Committee on Recycling of Plastics
- 3 CHD 32 Sectional Committee on Environment Protection and Waste Management

Shri. Sujit Banerji, President Polymer Business, Reliance Industries Limited and Executive Secretary / Member, Executive Committee, ICPE is the Chairman of PCD 12 of BIS.

In the area of Waste Management, ICPE undertakes pilot projects in consultation with local self-government Bodies and Civic Authorities on regular basis. Besides these, need- based interface take place with the Ministry of Commerce, Department of Science & Industrial Research (DSIR), Ministry of Food, Civil Supplies & Consumer Affairs and various other agencies.



ICPE participation
in Industry and Media Meet
to deal with
Environmental issues.



ICPE is a Centre of Environmental Information System - Govt. of India



ADVISORY COUNCIL FOR RESEARCH & TECHNOLOGY

Since its inception ICPE has been involved to stimulate scientific temperament, facilitate sustainable development, knowledge dissemination and assist in formulating Government policies in the field of plastics and environment management through structured programmes. These programmes are effectively undertaken in collaboration with apex research and academic institutes viz. National Chemical Laboratory (NCL), Indian Institute of Technology (IIT), Central Food Technological Research Institute (CFTRI), Indian Council of Medical Research (ICMR), Shriram Institute for Industrial Research (SIIR), Indian Institute of Packaging (IIP), etc.

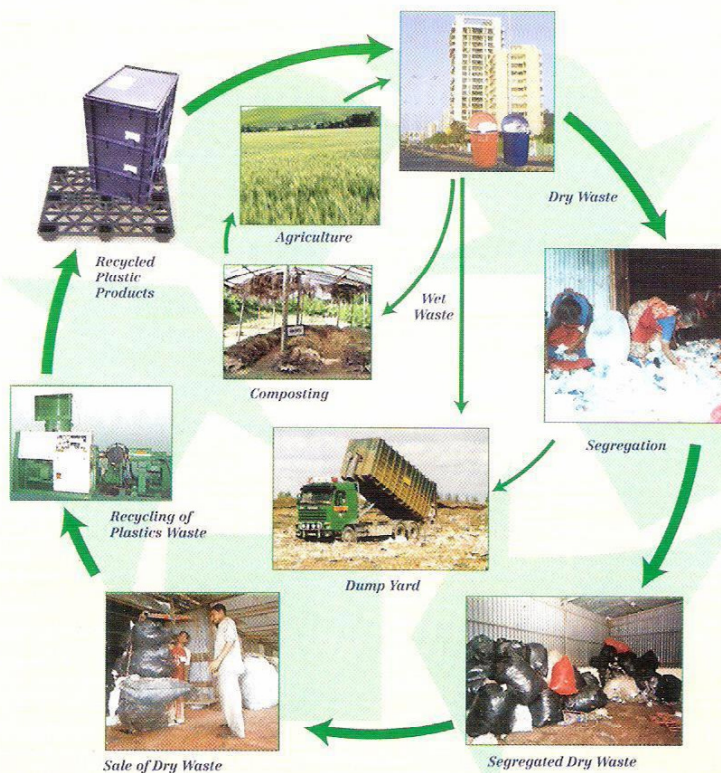
The projects undertaken by ICPE cover Life Cycle Analysis study for plastics goods, Plastics for Food Packaging & Healthcare, Biodegradable Plastics, etc. Various technical initiatives in areas of environment management with local self-government bodies also have been successfully undertaken.

To steer all such strategic research & technology projects in the areas of environment management & sustainable development, ICPE has set up an Advisory Council for Research & Technology (ACRT) comprising eminent personalities from Science & Technology fraternity. The members of ACRT are:

- **Dr. S. Sivaram**
Director, National Chemical Laboratory
- **Prof. Dilip Biswas**
Ex. Chairman,
Central Pollution Control Board (CPCB)
- **Dr. B. Sengupta**
Member Secretary,
Central Pollution Control Board (CPCB)
- **Mr. Vijay Merchant**
President, Dynam Plastics, Mumbai
- **Dr. Amit Biswas**
Head, Polymer Research and Technology
Centre, Reliance Industries Limited



Awareness Programme - Sardar Patel School, Kandivali



Solid Waste Management

ICPE as an ENVIS Centre



Environmental Information System (ENVIS) is a decentralized system of nationwide network of distributed subject specific centres integrated to collect, collate, store, retrieve and disseminate information on environment. ENVIS Centres have been established at acclaimed organisations, institutions, NGOs and concerned government departments in the areas of Pollution Control, Toxic Chemicals, Urban Solid Waste Management, Human settlements, Himalayan Ecology, Conservation of Ecological heritage and sacred sites in India initiated and funded by the Ministry of Environment and Forests, (MoEF), Government of India under the Capacity Enhancement Programme during early 1980's. Initially started with about a dozen organisations, at present there are about 60 ENVIS Centres in the country excluding Central Pollution Control Board and all the State Pollution Control Boards.

ICPE was selected as a ENVIS Centre in the year 2002-03 to deal with the subjects "Management of Plastics, Polymer Wastes and Bio-Polymers, Impact of Plastics on the Eco system". The objective of the ENVIS Centres are :

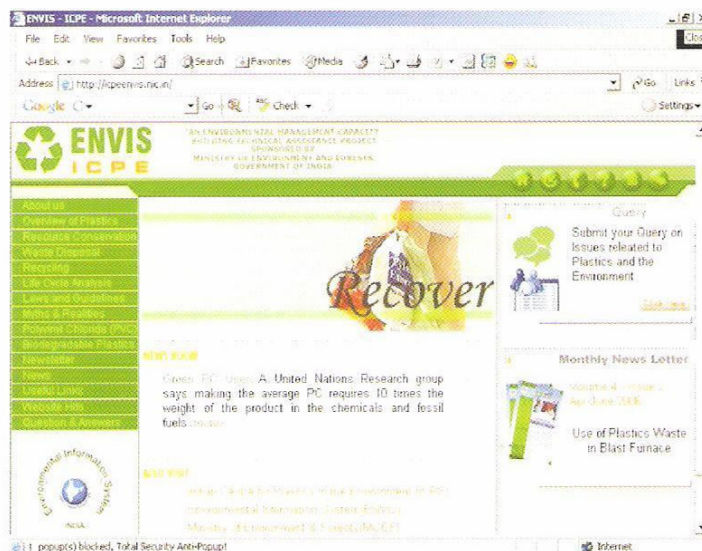
- Creation of website and uploading and regular updating of information on the subject area
- Compilation of news items
- Database Creation
- Publication of ENVIS Newsletters
- Answering and channelling queries related to the allocated subject
- Establishing linkages with information users, carriers and providers from among government academicians, business and NGOs including that of ENVIS.

Under the programme, ICPE-ENVIS Centre has created dedicated websites to provide information under the headings

About Us, Overview of Plastics, Resource Conservation, Waste Disposal, Recycling, Life Cycle Analysis, Laws and Guidelines, Myths and Realities, Polyvinyl Chloride, Biodegradable Plastics, Study Reports, Newsletters, News, Useful Links, Website Hits, Questions and Answers.

ICPE ENVIS Newsletters are published quarterly containing Articles, Research Data, News items on Environmental Issues on Plastics. The soft copy of the Newsletters are uploaded in the website and limited number of hard copies are distributed among policy makers, academicians, government departments, NGOs, educational institutes etc.

ICPE-ENVIS website has attracted the attention of a large number of website visitors and the Centre also answers to relevant queries from various sections of the society on Plastics and the Environment and submits data on the subject area to the Government departments.





Media Campaign

One of ICPE's objective is to create public awareness through carefully directed messages, press release and technical articles in the media. ICPE has released a series of advertisements, highlighting the role of plastics in the daily lives of millions of people. It has also focused attention on littering and bin culture. Projects sponsored by ICPE such as the "Municipal Solid Waste Segregation at Source" and the "Compacting Machine" have been well covered by the media.

The press campaigns reiterate that ICPE is actively engaged in finding solutions to plastic waste management and disposal.

PLASTICS



Securing Our Future Today

Plastics, An Eco-friendly Source of Tailor-made Solutions

Plastics are used in a wide range of applications. They are used in the construction of greenhouses, which help in growing crops in a controlled environment. They are also used in the production of various types of plastic mulch, which helps in conserving water and reducing the need for fertilizers.

REUSE • RECYCLE • REDUCE • RECOVER

Indian Centre for Plastics in Environment, Visit us at www.icpemr.org



PLASTICS



For Most Effective PUC on Wheels

Plastics are used in a wide range of applications. They are used in the production of various types of plastic mulch, which helps in conserving water and reducing the need for fertilizers.

REUSE • RECYCLE • REDUCE • RECOVER



PLASTICS



Making the Virtual World a Reality

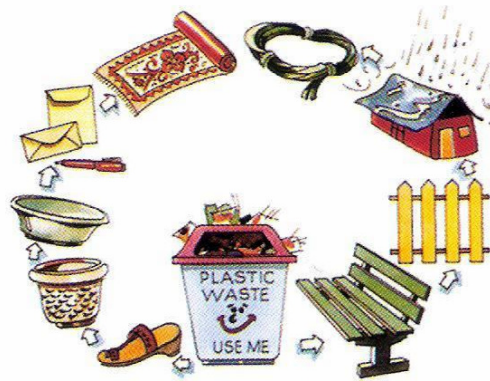
Plastics, Harbinger of the New Age

Plastics will revolutionize the world. They are used in a wide range of applications. They are used in the production of various types of plastic mulch, which helps in conserving water and reducing the need for fertilizers.

REUSE • RECYCLE • REDUCE • RECOVER



Put Plastics in Right Place



You always get something back

Avoid littering plastic bags.

Plastic bags are 100% recyclable and are being already converted into very useful economic products for the masses. Plastics help conserve: scarce natural resources • water • energy • fuel and help prevent deforestation. Help the industry initiative on Recycling.

REUSE • RECYCLE • REDUCE • RECOVER



Reused in the public interest by Indian Centre for Plastics in Environment. Visit us at www.icpemr.org

Plastics You just can't declare them 'out'

Against the fury of a fast delivery, plastics used in helmets, leg-guards and other cricketing gear protect the batsman while making the running easier. Without them, he just might be declared 'out of action'. On the cricket field, as in all fields of life, plastics are a necessity today.

Not out! for a variety of reasons - from health and safety to convenience and easy living.

Plastic. Fantastic!

Issued in the public interest by the Indian Centre for Plastics in the Environment (ICPE)
 email: icpe@icpe.net website: www.icpeonline.org

Indian Centre for Plastics in the Environment
 Plastics. Not waste. Responsible management.

The world is logging on to Plastics

Enter

There's no "Alt"

"Enter" plastics - and your whole world changes. Log on and your computer's plastic components 'Delete' hassles and make connectivity easier. Advanced plastics help make the miracles of modern technology happen.

In a host of everyday uses, they redefine convenience and modernity. In fact, there's no 'Escaping' the fact that plastics are an integral part of life today. There's just no 'Alt'.

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Indian Centre for Plastics in the Environment
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She lost a leg

Plastics helped her get back in the race

Asha had a dream. She trained hard to fulfil it. But then - a fall. Even though she lost a leg her dream was not shattered. Never one to give up, her usability came in the way of her abilities. And because of the plastic prosthesis supporting her left leg, she was soon back in the race in more ways than one.

Advanced plastics today help miracles of medicine happen. But it is the human spirit that creates the greatest miracle of all.

Plastic. Fantastic!

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Indian Centre for Plastics in the Environment
 Plastics. Not waste. Responsible management.

"I am NOT a Carpet!"

I am a Pet Bottle reborn."

Red Carpet finally finds its identity

See full report on Page 12

"I was a bucket", claims Dustbin

Says she had visions and has enough proof

See full report on Page 8



Support to ICPE

Membership

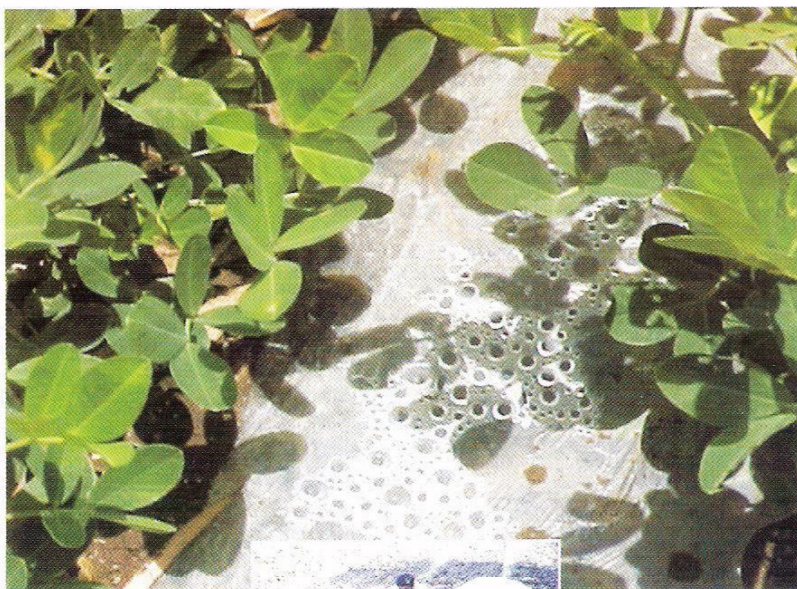
The representatives from Chemicals and Petrochemicals Manufacturers Association (CPMA), Plastindia Foundation (PIF), Central Pollution Control Board (CPCB), National Chemical Laboratory (NCL), Pune, were the signatories of the Memorandum of Associations, Rules and Regulations at the time of formation of ICPE. These representatives form the General Body of ICPE.

For effective functioning of the Centre, there is a Governing Council, which takes policy decision on various activities to be undertaken by the Centre and an Executive Committee is responsible for effective implementation of the policy as decided by the Governing Council.

The founder members - CPMA and PIF depute their representatives, which constitutes about 50% of the total Members. Other Members are deputed by the following Government Departments/Industry/Organisations :

- Ministry of Environment and Forests, (MoEF), Government of India
- Central Pollution Control Board, (CPCB)
- Department of Chemicals and Petrochemicals, (DCPC), Ministry of Chemicals and Fertilizers, Government of India
- Central Institute Of Plastics Engineering & Technology, (CIPET)
- Indian Institute of Packaging, (IIP), Mumbai
- National Chemical Laboratory, (NCL), Pune
- Product Packer
- University Department of Chemical Technology, (UDCT), now (UICT), Mumbai

The members are elected /deputed for a period of 3 years at a time.



PET



HDPE



PVC



LDPE



PP



PS



OTHERS

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INDIAN CENTRE FOR PLASTICS IN THE ENVIRONMENT

