

# **Basel Convention Coordinating Center for Asia and the Pacific (BCRC China)**

## **1. Institution and Human Resource of BCRC China**

### **1.1 Head of BCRC China**

- Mr. Fan Yuansheng,
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- Dr. Jiming Hao
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### **1.2 Executive body of BCRC China**

- Mr. Jinhui Li Dr/Professor.
  - Executive Secretary
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  - Web site: <http://www.bcrc.cn>
  
- Other fulltime staffs

Table 1 Fulltime staffs and consultants

<i>No</i>	<i>Name</i>	<i>Title</i>	<i>Skill</i>
1	Mr. Hao Liu, M.S.	Technical officer	Chemical management, Environmental planning and policy, ESM of hazardous and other wastes
2	Mr. Lixiao Hu, M.S.	Technical officer	Environmental planning and policy, ESM of E-waste
3	Ms. Nana Zhao, M. S	Technical officer	Environmental planning and policy, ESM of E-waste
4	Ms. Weifeng Zhao	Technical secretary	Chemical management, Environmental engineering, Capacity building, Basel Convention
5	Ms. Lixia Zheng	Technical secretary	Environmental engineering, Capacity building, Basel Convention
6	Ms. Shufen Xie	Administrative secretary	Administrative and financial issues

### 1.3 Technical support team

- Chief Technical Advisor of the center

Mr. Gang Yu, PhD, professor and the chairman of the Department of Environmental Science and Engineering, Tsinghua University, and the director of POPs Research Center of Tsinghua University. He established an electronic platform for POPs research by a website---www.china-pops.net, and a lab for analyzing dioxin and other POPs substances. He used to be the Co-Chair of the BAT/BET Expert Group in COP1 to the Stockholm Convention. He was also the chief technical expert on formulating NIP of POPs Elimination and Reduction in China.

- Technical team

More than 10 professors, 5 associate professors, and 10 assistant professors work in the areas of waste management policy and technology, waste treatment and disposal engineering, POPs management policy, POPs analysis technology, POPs waste elimination and disposal, POPs reduction, circular economy in Tsinghua University.

### 1.4 Institutional information

The Basel Convention Coordinating Center for Asia and the Pacific is established on the basis of the Asia-Pacific Regional Centre for Hazardous Waste Management Training and Technology Transfer (BCRC China) according to the draft framework agreement between the Chinese government and the Secretariat of Basel Convention on behalf of the Conference of the Parties to the Basel Convention on the Control of the Trans-boundary Movements of Hazardous Waste and their Disposal. BCRC China is supervised by the Secretariat of the Basel Convention, supported by State Environmental Protection Administration of Peoples' Republic of China and located in Tsinghua University. The relevant institutions to support BCRC China within Tsinghua University

are the Institute of Solid Waste Management, and POPs research Center. China National Training and Technology Transfer Center for Hazardous Waste Management and Disposal is also its supportive institution.

The Third International Meeting of the Parties to the Basel Convention officially selected China as the host country to establish the regional center for hazardous waste management in the Asian and Pacific region in September 1995. The First Asia-Pacific Meeting on Establishing Regional Centers for Training and Technology Transfer for Environmentally Sound Management of Hazardous Waste was held on 7-9 July 1996 in Tsinghua University, Beijing. In the Meeting and in the final report of the Meeting, it was agreed that the Regional Center would be established based on the NTTTC (National Training and Technology Transfer Center for Hazardous Waste Management And Disposal of China). On 11-13 November 1997, the First Meeting of the Board of Directors for Asia-Pacific Regional Center for Hazardous Waste Management Training and Technology Transfer (Beijing) was held in Tsinghua University, Beijing, which marked the beginning of operation for the center.

The core functions of the Centre are training, technology transfer, information, consulting and awareness. In addition, it also acts as a coordinating center:

- Ensuring interaction, including exchange of information, between the secretariat of the Basel Convention and the Regional Centers, among the sub-regional centers, Parties and other related institutions;
- Conveying regional consultation to identify priorities and formulate strategies;
- Supporting and coordinating common tasks of the sub-regional centers in the field of policies, information, communication, technical and financial assessment;
- Defining and executing programs of regional scope in coordination with the sub-regional centers;
- Identifying, promoting and strengthening the synergies and mechanisms of cooperation among the sub-regional centers and other stakeholders in environmentally sound management and the minimization of generation of hazardous waste and technology transfer in and outside the region;
- Keeping a compilation system for information and making such information accessible to stakeholders.

## **2. Facilities of BCRC China**

- **Hardwire facilities**

BCRC China holds the following facilities (but not limited):

- 11 computers
- 2 notebooks
- Meeting rooms are available for routine work and workshops
- Laboratories could be available, including materials recycling and waste disposal
- 3 overhead projectors
- Cable internet is connected to every computer
- 1 fax machine

- 1 scanner
- 3 Telephone numbers, and each staff has a telephone machine
- Two offices
- 5 printers

- **Information platform**

Basel Convention Coordinating Center for Asia and the Pacific had developed its website in its server equipment---<http://www.bcrc.cn>. The website is a window to exchange information regarding the management of hazardous waste and other wastes. Reports and proceedings of the activities to be implemented by BCRC China could be found as well as the information related to Basel Convention and the BCRC China. The website could take the active part to share common issues among stakeholders.

### 3. Networking in cooperation with BCRC China

The Secretariat of the Basel Convention (SBC) and the State Environmental Protection Administration of China (SEPA), which are directly leading Basel Convention Coordinating Center for Asia and the Pacific (BCRC China), has provided a lot of support and guidance for BCRC China on the implementation of the Basel Convention in China and the Asia and the Pacific region since BCRC China was established.

BCRC China has networked closely and extensively with not only donors of funding and technology but also developing countries and institutions in these developing countries through projects and information exchange as shown in table 2 below. Otherwise, BCRC China is also in close cooperation with the office of SEPA for Implementation of Stockholm Convention whose function is mainly focusing on the capacity building and national implementation of Stockholm Convention.

Table 2 List of networking in cooperation with BCRC China in recent years

No.	Types	Institutions or organizations
1.	International organizations in cooperation with BCRC China	UNEP Chemicals UNIDO World Bank
2.	Related sectors of government supporting or in cooperation with BCRC China	The Ministry of the Environmental of Japan Government of Canada EPB of Qingdao Government of Sri Lanka Government of Malaysia Government of Thailand National High-tech R&D Program (863 Program), China National Science and Technology Program (Tenth Five-year Planning), China Jiangsu Provincial Science and Technology Department Management Center of Solid Waste, EPB of Beijing Foreign Economic Cooperation Office
3.	Enterprises in cooperation with BCRC China	EX Corporation Cleanaway Group Dolomatrix International Limited PEAT International, Inc. Philips Electronics China Group. Qinghuadao Qinyun Medical Waste Treatment Ltd.

4.	Universities, academies and public institutions supporting or in cooperation with BCRC China	Tsinghua University The office of SEPA for Implementation of Stockholm Convention POPs Research Center of Tsinghua University IMPA, ETH Delft University of Technology Famous universities and institutes from USA, UK, Italy, German, Netherlands and Japan, HACH company and Toyota Motor Corporation etc.
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#### 4. Activities of BCRC China

##### 4.1 Projects on implementing the Basel Convention

In order to promote the implementation of the Basel Convention Strategic Plan, BCRC China successfully carried out the following projects focusing on the management of hazardous waste and other waste, especially e-waste as shown in the table 3.

Table 3 Basel Convention Strategic Plan Projects

No.	Name of Project	Date: from - to	Source of Fund
1.	New Partnership with Local Authorities for the Environmentally Sound Management of Hazardous and Other Wastes in Urban Areas	2004-2005	Basel Convention Trust Fund
2.	Survey of the Import and the Environmentally Sound Management of Electronic Wastes in Asia-Pacific Region	2004-2005	Basel Convention Trust Fund with co-funding from Canadian government

##### 4.2 Capacity building programme

BCRC China had organized a lot of national or regional workshops on capacity building, as shown in Table 4, to achieve the environmentally sound management for hazardous waste and other waste in the region.

Table 4 Important workshops organized or co-organized by BCRC China in recent years

No.	Name of Workshop	City	Date: from - to	Roles	POPs Subject
1	The Second International Conference on Waste Management and Technology	Beijing China	July 18-19, 2007	Organizer	
2	Sino-Swiss Scientific Workshop: Life Cycle Assessment of Electrical and Electronic Equipment	Zurich, Switzerland	June 6-7, 2007	Co-organizer	
3	Regional Workshop on Prevention of Illegal Transboundary Movement for Hazardous Waste in Asia	Beijing, China	March 28-29, 2007	Organizer	
4	National Training on Environmental Management for Enterprises of Generating or Treating Hazardous Waste	Beijing, China	November 22-24, 2006	Organizer	
5	Regional Workshop on Capacity and Capacity Building Needs to Analyse POPs in Developing Countries in Beijing, China	Beijing, China	December 13-16	Organizer	Yes

6	National Workshop on E-waste Policy, Issue and Management Options–An Information Dissemination Workshop in Sri Lanka	Colombo Sri Lanka	November 14, 2005	Co-organizer	
7	National Workshop on the Survey of the Import and the Environmentally Sound Management of Electric Waste in China	Beijing, China	June 2, 2005	Organizer	
8	International Conference on Management, Policy, Treatment and Disposal Technology of Hazardous Waste in Beijing China	Beijing, China	May 31-June 1, 2005	Organizer	
9	National Workshop on the Survey of the Import and the Environmentally Sound Management of Electric Waste in Thailand	Bangkok, Thailand	January 20, 2005	Co-organizer	
10	Regional Forum on New Partnership for ESM of Urban Hazardous Wastes		December 12-19, 2004	Co-organizer	
11	China-Netherlands Seminar on Recycling of Electronics in Beijing, China	Beijing, China	November 16-17, 2004	Organizer	
12	National Workshop on New Partnership for the Environmentally Sound Management of Hazardous Wastes in China	Qingdao, China	August 10-11, 2004	Organizer	
13	Initiative of Public-Private Partnership for Hazardous Wastes on Environmentally Sound Management in Qingdao	Qingdao, China	August 12, 2004	Co-organizer	
14	Initiative of Environmentally Sound Management for E-waste in Qingdao	Qingdao, China	August 12, 2004	Organizer	
15	National Training Workshop on Waste Import and Export Management in China	Sanya, China	December 23-25, 2003	Organizer	
16	National Training Workshop on Waste Import and Export Management in China	Qingdao, China	September 23-25, 2003	Organizer	
17	The Asia-Pacific Regional Scoping Workshop on Environmentally Sound Management of Electronic Wastes	Tianjin, China	November 19-22, 2002	Organizer	
18	National Training Workshop on Hazardous Waste Management and Disposal Technology in China	Beijing, China	November 29-December, 2, 2002	Organizer	
19	First Northeast Asian Sub-regional Workshop Towards the Effective Implementation of the Chemicals and Hazardous Wastes Conventions	Beijing, China	April 15-17, 2002	Support SEPA as Organizer	Yes
20	National Workshop on Pollution Control and Recycling of Municipal Solid Wastes in China	Beijing, China	April 12-16, 2001	Organizer	
21	National Workshop on Solid Waste Management and Disposal Technology in	Shenyang, China	October 10-22, 2001	Organizer	

	China				
22	The Third Asia-Pacific Regional Training Workshop on Hazardous Waste Management in Mining Industry	Beijing, China	September 4-8, 2000	Organizer	
23	The Second Asia-Pacific Regional Training Workshop on Hazardous Waste Management and Practice	Beijing, China	November 8-12, 1999	Organizer	
24	The First Asia-Pacific Region Training Course on Hazardous Waste Management and Practice	Beijing, China	March 8-12, 1999	Organizer	

### 4.3 Technical support to SBC and SEPA

BCRC China actively participated in the international cooperation and information communication with other international institutions in the fields of waste management and POPs as shown in Table 5 under the support of SBC and SEPA.

Table 5 Participating in the activities as a delegate of BCRC/SEPA or SBC in recent three years

No	Date: from - to	Roles	Activities	POPs Subject
1	May 15-18, 2007	Nominated by SBC	Green Customs Train-the-Trainer Workshop, Shanghai, China	
2	April 25-27, 2007	Nominated by SEPA	The 7th Asia Pacific Roundtable for Sustainable Consumption and Production Conference, Hanoi, Vietnam	Yes
3	February 05-08, 2007	Nominated by SBC	Regional Seminar/Workshop on Implementation of IMO Guidelines on Ship Recycling, Zhuhai, P. R. China	
4	November 27, 2006	Nominated by SEPA	The Conference of the Parties to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal: Eighth Meeting, Nairobi, Kenya	
5	October 16-20, 2006	Nominated by SBC	Second Intergovernmental Review Meeting (IGR-2) of the UNEP Global Programme of Action for the Protection of the Marine Environment from Land-Based Activities (GPA), Beijing, China	
6	April 3-7, 2006	Nominated by SEPA	Open-ended Working Group Meeting of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal: Fifth Session, Geneva	
7	November 30-December 1, 2005	Nominated by SBC	Asia Waste Management Summit, Singapore	
8	November 21-25, 2005	Nominated by SEPA	Asia-Pacific Regional Inception Workshop on the Environmentally Sound Management of Electronic and Electrical Wastes, Tokyo, Japan,	
9	November	Nominated	The Second Workshop of the Asian Network for Prevention	

	23, 2005	by SEPA	of Illegal Transboundary Movement of Wastes, Tokyo	
10	October 29-November 1, 2005	Nominated by SBC	Subregional Workshop on Green Customs, Thimphu, Bhutan	
11	July 4-8, 2005	Nominated by SEPA	Open-ended Working Group of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal: Fourth Session, Geneva	
12	May 25-27, 2005	Nominated by SBC	Exchanging National Experiences Among the Principal Exporting Developing Countries - Environmental Requirements and Market Access for Electrical and Electronic Goods, Bangkok, Thailand	
13	April 28-30, 2005	Nominated by SBC	The Ministerial Conference on the 3R Initiative	
14	December 7-8, 2004	Nominated by SEPA	The Workshop on Prevention of Illegal Transboundary Movement of Wastes, Tokyo, Japan	
15	October 25-29, 2004	Nominated by SEPA	Conference of the Parties to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, Seventh meeting, Geneva,	
16	June 22-23, 2004	Nominated by SBC	Regional Expert Group Meeting on e-Wastes in the Asia-Pacific, UNEP Regional Resource Centre, AIT Outreach Building, Bangkok	
17	April 26-30, 2004	Nominated by SEPA	Open-ended Working Group of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal: three session, Geneva	
18	March 8-12, 2004	Nominated by SBC	Regional Workshop on the Implementation of the Rotterdam Convention, Beijing, China	
19	Feb. 26-27, 2004	Nominated by SBC	Shipping China 2004	
20	October 1-3, 2003	Nominated by SBC	STAP/GEF Technical Workshop on Emerging Innovative Technologies for the Destruction and Decontamination of Obsolete POPs, Washington D.C.	Yes
21	November 26 - 30, 2001	Nominated by SEPA	Subregional Workshop on Support for the Implementation of the Stockholm Convention on Persistent Organic Pollutants (POPs) Bangkok, Thailand, United Nations Environment Programme Chemicals	Yes

#### 4.4 Projects of BCRC China

- Research on the Planning of Comprehensive Treatment of Municipal Solid Waste and Idealization Management Model. National High-tech R&D Program (863 Program), 2005-2006.
- Research the Liability Insurance System on the Treatment and Disposal of Hazardous Waste, State Environmental Protection Administration of China, 2005-2006.
- A Feasibility Study of Medical Waste Treatment Project in Qinghuangdao, Qinghuangdao Qinyun Medical Waste Treatment Ltd. 2005-2006.

- Survey of the Import and the Environmentally Sound Management of Electronic Wastes in Asia-Pacific Region. Basel Convention Trust Fund, 2003-2005.
- Cleaner Production and Solid Waste Management, UNIDIO-China Project: 2002-2005.
- Research on Recovery and Resource Technology of Used and Waste Household Appliances. 863 Program, 2003-2005, Yu Zida (Haier Group).
- Research on Assessment System of Hazardous Waste Treatment and Disposal Technology. National Science and Technology Program (Tenth Five-year Planning), 2003-2005.
- Research on Regulation of Incineration of Hazardous Waste Technique, National Science and Technology Program (Tenth Five-year Planning) , 2003-2005.
- Research on the Technology Guide of Dismantlement, Comprehensive Utilizing, Treatment and Disposal of E-Waste. National Science and Technology Program (Tenth Five-year Planning), 2003-2005.
- National Official Consultant to Basel Convention, State Environmental Protection Administration of China, 2002-update.
- National Action Project and Regional Decision-making System of Hazardous Waste Management, State Environmental Protection Administration of China, National Science and Technology Program (Tenth Five-year Planning), 1998-2000.
- Management and Countermeasure Research of Lead-acid Battery, State Environmental Protection Administration of China, 2003—2004.
- Management and Countermeasure of IT's Hazardous Waste, State Environmental Protection Administration of China, 2003—2004.
- Research on Waste Import Environmental Protection Rules, State Environmental Protection Administration of China, 2002-2003.
- Environmental Risk Analysis on the Seventh Export Waste, State Environmental Protection Administration of China, 2001-2002.
- Research on the Scope of Solid Waste Environmental Management Law in Developed Countries, State Environmental Protection Administration of China, 2001-2002.
- Shandong Environmental Project---National Strategy Plan of Hazardous Wastes of China, funded by World Bank, January 1998—June, 1999.
- Demonstrate Project of E-waste and Other Wastes Recycle in Suzhou New and Hi-Tech Industrial Development Zone , Jiangsu Provincial Science and Technology Department, 2006-2009
- Environmental Management Project on Hazardous Waste and Toxic Chemicals in 2006 — Hazardous Waste Legislation: The Hazardous Waste Export Management, State Environmental Protection Administration of China, 2006-2007.
- Environmental Management Project on Hazardous Waste and Toxic Chemicals in 2006 — Special Examine on Hazardous Waste (Technology Support) , 2006-2007.

#### • 4.5 POPs-related projects of BCRC China and its support body

- Synergies of Chemical and Waste Conventions, Funded by Tsinghua University, 2003-2005, BCRC China

- Haihe Basin POPs Investigation in Environmental Media, Funded by SEPA, 2006, POPs Research Center of Tsinghua University
- Isotope fractionation Mechanism and Application of Environmental Photochemical Process of Typical POPs, Funded by Natural Science Foundation Committee, 2003-2006, POPs Research Center of Tsinghua University

### 5. Areas on POPs that BCRC China has special experience

Based on the Annex to decision SC-1/15---Guidance on technical assistance and transfer of environmentally sound technologies, the identified areas of technical assistance and technology transfer needs that BCRC China could serve and has special experience, know-how and information, are shown in table 5.

Table 6 BCRC China's capacity analysis on priority area of POPs

Priority Area Number	Priority Area	BCRC Capacity	Notes
(a)	Development, updating and implementation of the national implementation plans called for in Article 7 of the Convention;	High	BCRC China is an organization that formulates National Action Plan on Hazardous Waste Management in China. Prof. Yu gang, the Chief Technology is the key consultant on formulating China National POPs inventory and NIP on POPs.
(b)	Review of available infrastructure, capacity and institutions at the national and local levels and the potential to strengthen them in the light of the Convention;	Middle	BCRC China has professors to act as assessor in China in this area
(c)	Training for decision-makers, managers and personnel responsible for issues related to the Convention	High	Many training activities organized by BCRC China, including POPs issues
(d)	The development and strengthening of research capacity at the national, sub-regional and regional levels	High	BCRC China has professors working on technology research and development
(e)	The development and establishment of laboratory capacity, including the promotion of standard sampling and analysis procedures for the validation of inventories;	High	The support institution of BCRC China is equipped by special dixon analysis lab and instruments of other POPs analysis.
(f)	The development, implementation and enforcement of regulatory controls and incentives for the sound management of persistent organic pollutants;	High	BCRC China has experience on formulating hazardous waste and e-waste management regulation in China

(g)	The identification and disposal of persistent organic pollutant wastes, including transfer of environmentally sound technologies for the destruction of such wastes;	High	BCRC China is special on hazardous waste disposal and elimination
(h)	The identification and promotion of best available techniques and best environmental practices;	High	BCRC China has a strong technology support team on POPs waste
(i)	The identification and remediation of sites contaminated with persistent organic pollutants;	High	BCRC China has a strong technology support team on site remediation and environmental risk assessment
(j)	The development and updating of a list of technologies that are available to be transferred to developing country Parties and Parties with economies in transition in accordance with paragraph 4 of the Article 12 of the Convention;	High	BCRC China has a strong technology support teams on POPs waste disposal and elimination, and technical assessment
(k)	The promotion of awareness-raising and information-dissemination programs, including awareness-raising among the general public, of issues related to the Convention;	High	BCRC China has its website, its supportive institution---POPs Research Center of Tsinghua University has a special website on POPs
(l)	The identification of obstacles and barriers to the transfer of technology and identification of the means to overcome them;	Middle	Technology transfer is one of the key function for BCRC China
(m)	Effectiveness evaluation, including monitoring of levels of persistent organic pollutants.	Middle	BCRC China has technical supportive work on this area