

The Present Situation of Technical Exchanges with Asian Cities by Osaka Municipal Waterworks Bureau

Osaka Municipal Waterworks Bureau
Japan
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Location of Osaka City

Location of Osaka City, Heart of Kansai Region

Kansai Region Area : 2,717,100 ha Population : 24 million	Osaka City Area : 22,196ha Population nighttime : 2.6 million Population daytime : 3.7 million
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Osaka water's facilities

■ Purification plant
 ● Distribution plant (reservoir)
 ▲ Distribution plant (under construction)
 ☆ Distribution plant (planned)
 — Main

Water supply capacity:
 2,430,000m³/day
Total length of pipelines:
 5,126km

Directives for Internationalization

- (1) Promoting Osaka to the world
- (2) Forming and developing a meaningful urban network
- (3) Sharing urban technology through international cooperation
- (4) Enhancing citizen initiative in international exchange
- (5) Creating a user-friendly city for visitors from around the world

Friendship Cities

● Sister Cities	8 Cities
● Business Partner Cities (BPC)	11 Cities
● Sister Ports	7 Ports
● Friendship and Cooperation Cities	2 Cities



Acceptance of Trainees From Developing Countries in Osaka City

		1990	1995	2000	2002
JICA	Osaka City	62	98	109	96
	Japan	5,294	6,777	8,339	8,956
AOTS	Osaka City	506	1,238	1,061	1,166
	Japan	3,226	4,752	5,020	3,264
Osaka City Total		568	1,336	1,170	1,262

JICA : Japan International Cooperation Agency
AOTS : Association of Overseas Technical Scholarship



Technical Exchange with Friendship City - Shanghai

1974 Friendship City ties established
 1981 Friendship Port ties established
 1995 Business Partner City ties established
 Since 1988 - Annual signing of "Osaka / Shanghai Friendship Exchange Agreement"

Technical Exchange with Friendship City - Shanghai

The Composition of "Osaka / Shanghai Friendship Exchange Agreement"

Water Service Technical Exchange	Scientific Exchange
Economic Exchange	Port Technical Exchange
Social Welfare Exchange	City Construction Technical Exchange
Financial Taxation Business Exchange	Juvenile Work Exchange
Gymnastics Exchange	City Refuse Disposal Technical Exchange
Horticulture Technical Exchange	City Personnel Exchange
Animal Exchange	

Technical Exchange with Friendship City - Shanghai

-Annual visits to/from Osaka by water service staff
(To date: to Shanghai: **8 times**, from Shanghai: **8 times**)

Main Contents of the Exchange

- **Planning**
- **Improvement of Old Pipes**
- **Water leakage prevention**
- **Water-purifying processing**, such as chlorine processing and advanced purification processing
- **Operation**, such as a remote control systems and pump number-of-rotations control
- **Water quality management**, such as preservation of water sources and measurement technology of water quality
- **Water supply service**
- **Business management**
- **Organization management**, such as personnel affairs and training
- **Business management**, such as a operating on-line systems and receipts

Technical Exchange with Friendship City - Shanghai

7th – 13th Nov,2003 (7 days)
Dispatch of 4 staff

Subject

Improvement plan for water service institution
Operation / maintenance management of electric appliances and machines
Effective management of personnel
Ensuring water resources and water quality preservation



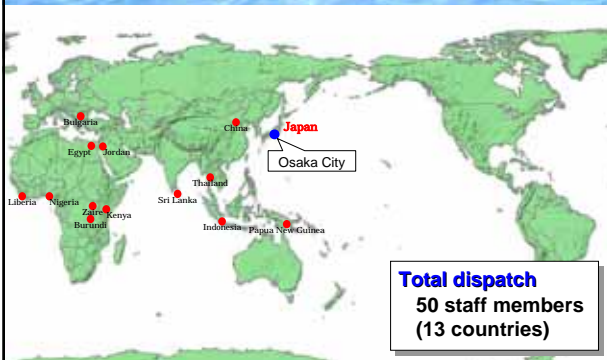
Technical Exchange with Friendship City - Shanghai

Recent Example from Nov.2003

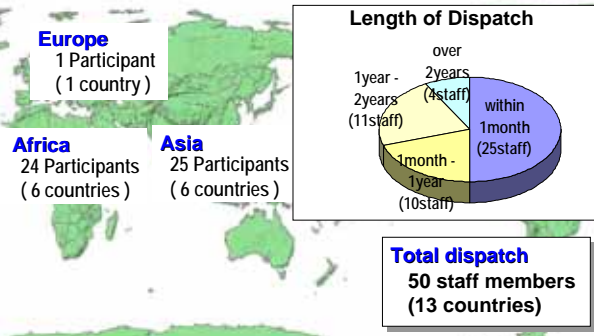
- Opinion exchange about the maintenance of advanced purification treatment such as GAC (granular activated carbon)
(Osaka: advanced treatment was already introduced in 2000
Shanghai: the construction of advanced treatment facilities has begun)
- Opinion exchange about subjects which will become important from now on, such as environmental problems



Experts Dispatch (through JICA etc.)



Experts Dispatch (through JICA etc.)



Experts Dispatch (through JICA etc.)



(Ex.) Dispatch to Indonesia (1991 ~ 1996)

- Cooperation for training of engineers of water supply and environmental sanitation in Indonesia
- In the field of water-purifying technology and water quality management,
 - Management of water supply and environmental sanitation training center
 - Making teaching materials
 - Giving seminars to the water service staff of various parts in Indonesia

Acceptance of Trainees (through JICA etc.)

Short Term

- Mainly carried out through JICA. (JICA, central government, other cities and other organizations)
- Training consists of operation, water examinations, and visits to water purification plants and Water Examination Laboratory
- In the past 5 years, 513 trainees have been accepted from 23 countries

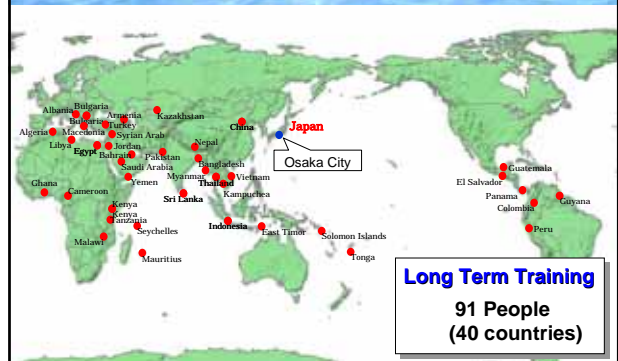
Acceptance of Trainees (through JICA etc.)

Long Term

"The Promoting Committee of the JICA Group Training Course" on water supply systems was started by the Osaka Municipal Waterworks Bureau in 1994

Operation and Maintenance of Urban Water Supply Systems Course
Advanced Microbial Enzyme Technology
High Performance Polymer Technology Course
Functional Organic Materials Technology Course
Air Pollution Control Course
Distribution of Fisheries Products Course
Project Planning for Urban Transport Infrastructure Course
Stormwater Drainage Technology with Sewerage System Course
Urban Greenery and Park Administration Course
Urban Solid Waste Management Course
Environmental Policy & Environmental Management Systems Course
Solar Power Generation and Application Technology Course
Rescue Techniques Course
Processing and Characterization of Inorganic Materials and Metals

Acceptance of Trainees (through JICA etc.)



Long Term Training
91 People
(40 countries)

Acceptance of Trainees (through JICA etc.)



Acceptance of Trainees (through JICA etc.)



Lectures on general subjects such as the urban water supply system

Acceptance of Trainees (through JICA etc.)

Practical Training



Site Visiting



Participation in International Conferences

- Water Osaka '95 (1995)
- Proceedings of the Japan/United States Workshop on Urban Earthquake Hazard Reduction (2000,2001,2002)
- International Conference of Aquapolises
- Japan-China Water Processing Technical International Symposium (2001)

Recent Examples of International Exchange Activities (2000-)

- Technical Exchange with a Friendship City – Shanghai City
- Cooperation with JICA – Expert Dispatch and Trainee Acceptance
- Cooperation with JBIC – “the Bisalpur Jaipur Water Supply Project”

International events held in Osaka City



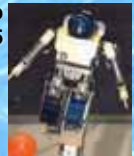
2003 3rd
World Water Forum



2007 11th IAAF World Championships
in Athletics

Rotary International
Convention 2004

RoboCup
2005



14th World Rose
Convention 2006



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Thank You Very Much
For Your Attention.

