

## 第 5 次

# 太平洋沿岸國原子力會議 및 展示會

The 5th Pacific Basin Nuclear Conference & Exhibit

基調테마 : 原子力産業의 活性化를 위한 相互協力

期 間 : 1985年 5月 19日 (日) ~ 5月 23日 (木)

場 所 : 서울 웨라톤 워커히 호텔

韓國原子力産業會議는 韓國原子力學會, 美國原子力學會와 공동으로 第5次 太平洋沿岸國原子力會議(PBNC) 및 展示會를 오는 5월19일부터 23일까지 서울의 웨라톤 워커히 호텔에서 開催한다.

이번 會議에는 40여개국에서 500여명의 原子力專門家들이 참석하여 50여편의 論文發表와 討論을 가지며, 展示會에는 50여의 세계적인 原子力産業 業體와 機關이 各種最新 機資材와 技術을 展示 및 示範을 보인다.

특히, 이번의 第5次 PBNC 서울會議는 우리나라 原子力産業界의 力量을 國內外에 과시, 그 活動무대를 國內의 테두리에서 벗어나서 본격적인 國際化 時代로 돌입하여 先進國家에 우리의 技術을 逆輸出할 수 있는 계기가 될 것이며, 또한 최근 各 分野에서 太平洋地域의 結束이 거론되고 있는 현 시점에서 原子力産業의 太平洋沿岸 地域協力の 기틀이 이번 서울會議를 통해서 확립될 것으로 期待된다.

### 會議의 性格

太平洋沿岸國原子力會議(PBNC)는 原子力의 平和的 利用을 增進시키기 위하여 2年마다 太平洋沿岸國에서 開催되는 會議로서, 原子力에 對한 研究論文, 開發政策, 安全對策, 關聯産業의 振興策 등이 發表·討議되는 데, 太平洋沿岸國 뿐만아니라 世界各國의 原子力 關聯人士의 國際的 交流와 技術情報交換의 場이 되고 있다. 특히, 이번 第5次 會議에서는 會議期間동안 같은 장소에서 原子力展示會도 함께 열린다.

### 會議의 沿革

- 第1次 1976年10月 美國 호놀룰루
- 第2次 1978年 9月 日本 東京
- 第3次 1981年 2月 멕시코 아카폴코
- 第4次 1983年 9月 캐나다 밴쿠버
- 第5次 1985年 5月 韓國 서울
- 第6次 1987年 9月 中共(豫定)

### 會議開催効果

- 國際協力으로 國內 原子力産業의 經濟性, 安全性 提高
- 國內 原子力界의 研究活動 活性化
- 原子力産業의 國産化 促進
- 原子力産業 輸出基盤 造成
- 科學技術協力を 통한 國際的 紐帶強化
- 그밖에 間接的인 效果로 外貨獲得, 觀光誘致, 우리나라의 紹介 등

### 프로그램 概要

#### ■1985年 5月19日(日)■

- 會議參加登錄
- 리셉션

#### ■1985年 5月20日(月)■

- Session 1 : 開會式
- Session 2 : Exchanging Views on Initiating a Nuclear Power Project
- Session 2A : Manpower Development
- Session 2B : Domestic Participation
- Session 2C : Economics of and Financing for Nuclear Power Projects
- Session 2D : Source Term and Safety Goal

#### ■1985年 5月21日(火)■

- Session 3 : Closing Fuel Cycle(Back-end Fuel Cycle)
- Session 3A : Spent Fuel Storage and Reprocessing
- Session 3B : Prospects for Fuel Recycle and Radwaste Management
- Session 4 : Regional Cooperation

#### ■1985年 5月22日(水)■

- Session 5 : Small and Medium Size Nuclear Reactors
- Session 6 : The Application of Radioisotopes and Radiation Technology
- Session 6A : Radioisotope Production
- Session 6B : Sterilization and Food Preservation by Radiation
- Session 6C : Radioisotope Application and Radiation Processing

#### ■1985年 5月23日(木)■

- Session 7 : Service and Maintenance of Operating Nuclear Plants
- Session 8 : 閉會式

#### ■産業視察■

- No 1 (慶州・古里原電) : 1985年5月24日~25日
- No 2 (慶州・月城原電) : 1985年5月24日~25日
- No 3 (慶州・韓重 昌原工場) : 1985年5月24日~25日
- No 4 (慶州・月城原電・古里原電) : 1985年5月23日~25日

#### ■特別行事■

- 大會長招請리셉션 : 5月19日(日) 19:00~20:30
- 午餐 : 5月20日(月) 12:15~13:45  
5月21日(火) 12:15~13:45
- 晚餐 : 5月22日(水) 18:30~21:00
- 同伴者行事 : 5月20日(月)~22日(水)



# Technical Program

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## **May 19, 1985 (Sunday)**

0900-1900: Registration

1900-2030: Reception

## **May 20, 1985 (Monday)**

**Chairmen's and Speakers' Breakfast (0730-0830)**

### **Session 1: Opening Ceremony (0900-0950)**

(Simultaneous Translation in Korean and English)

- Opening by Byong Whi Lee, Chairman, Organizing Committee
- Welcoming Address by Park, Jung-Ki, Conference Chairman
- Congratulatory Remarks by a Korean VIP
- Congratulatory Address by Joseph Hendrie, ANS President
- Congratulatory Remarks by the 4th PBNC Host Organ's Representative (James Donnelly, President, AECL)
- Multi-vision Slide Presentation of Korea

Coffee Break (0940-0950)

### **Session 2: Exchanging Views on Initiating a Nuclear Power Project (0950-1050)**

**Coordinator** : Eun Rae Roh, Korea Electric Power Corp.

**Chairman** : David S.L. Chu, Taiwan Power Co.

**Co-Chairman**: Theodore Stern, Westinghouse Electric Corp.

- 2-1 – The Role of the Technologist by A.P. Bray, Management Analysis Co., Calif.
- 2-2 – Client's View by Chong Hun Rieh, Korea Electric Power Corp.
- 2-3 – Three Attempts to Initiate a Nuclear Power Program by Juan Eibenschutz Hartman, Comisión Federal de Eletricidad

### **Session 2A: Manpower Development (1050-1230)**

**Chairman** : Antonio E.F. Müller, Promon, Rio de Janeiro

**Co-Chairman**: Mexico City

- 2A-1 – IAEA's Role in Manpower Development for Nuclear Power in Developing Countries by B.J. Csik and R. Skjoeldebrand, IAEA
- 2A-2 – Manpower Development from Client's Viewpoint by Richard C.T. Hsu, Taiwan Power Company
- 2A-3 – Manpower Development in the US Nuclear Power Industry by Neil Todreas, MIT and Larry R. Foulke, Westinghouse
- 2A-4 – Manpower Development and Man-Machine Interface—Practice in Canada by G.T. Bereznai, J. Ryder and L.W. Woodhead, Ontario Hydro
- 2A-5 – Audience Participation

**Luncheon (1230-1400): Speech—Role of Nuclear Energy and Future Prospects**  
by Takashi Mukaibo, AEC, Tokyo  
Song by a Korean Vocalist

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**Session 2B: Domestic Participation (1400-1530)**

**Chairman** : Ouyang Yu, Shanghai Nuclear Engineering Research and Design Institute

**Co-Chairman**: Khien Vongsuriya, Electricity Gen. Authority, Bangkok

- 2B-1 – Achieving Self-Reliance of Nuclear Equipment Supply and Services in Japan by Yoshiaki Korei, Hitachi, Ltd. and Shigekazu Yoshijima, Toshiba Corp.
- 2B-2 – Standardization of Nuclear Power Plants by Dominique Degot and Gérard Lebreton, FRAMATOME
- 2B-3 – Building-up of Indigenous Nuclear Capability by Nack Chung Sung, KHIC and KunMo Chung, KOPEC
- 2B-4 – Audience Participation

Coffee Break (1515-1530)

**Session 2C: Economics of and Financing for Nuclear Power Projects (1530-1640)**

**Chairman** : Juan Eibenschutz Hartman, CFdE, Mexico City

**Co-Chairman**: Datuk M. Ghazali, PUSPATI, Kuala Lumpur

- 2C-1 – Financing Nuclear Power Plants; in the U.S. and by the U.S. by John E. Gray, Int'l. Energy Associates Ltd.
- 2C-2 – Canadian Practice in Commissioning of Nuclear Power Plants by D.S. Lawson, AECL and H.A. Jackson, Ontario Hydro
- 2C-3 – Economics of Nuclear Power Projects by I-Hsien Chu, Taiwan Power Co.
- 2C-4 – Audience Participation

**Session 2D: Source Term and Safety Goal (1640-1730)**

**Chairman** : Hideo Uchida, Nuclear Safety Commission, Tokyo

**Co-Chairman**: Miguel Medina CNSNS, Buenos Aires

- 2D-1 – Changes in Source Term by Milton Levenson, Bechtel
- 2D-2 – Argentine View on Quantitative Safety Goals by Daniel Benison, Buenos Aires
- 2D-3 – Audience Participation

**May 21, 1985 (Tuesday)**

Chairmen's and Speakers' Breakfast (0730-0830)

**Session 3: Closing Fuel Cycle (Back-end Fuel Cycle)**

**Coordinator** : Young Ku Yoon, Korea Adv. Inst. of Sci. & Tech.

**Session 3A: Spent Fuel Storage and Reprocessing (0900-1050)**

**Chairman** : Angelo Giambusso, Stone & Webster Int'l. Corp.

**Co-Chairman**: Xu Honggui, Chinese Nuclear Society

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**Special Lecture: The Economics of Nuclear Power as a Major Alternative in Energy Supply** by Toshiyasu Sasaki, OECD (0900-0935)

- 3A-1 – Current Trends in Spent Fuel Storage by Bertram Wolfe, Burton F. Judson and J.E. Van Hoomissen, General Electric Co.
- 3A-2 – Spent Fuel Transport & Reprocessing by A.N. Prasad, M.K. Rao and P. Seetharamiah, Bhabha Atomic Research Centre
- 3A-3 – Present Status and Prospects for Reprocessing by Claude Ayçoberry, COGEMA

Coffee Break (1035-1050)

**Session 3B: Prospects for Fuel Recycle and Radwaste Management (1050-1220)**

**Chairman** : R.E. Green, AECL

**Co-Chairman**: Edward Hennelly, du Pont

- 3B-1 – Alternatives for the Disposal of Low- and Medium-level Wastes in Taiwan Area by Chao-Ming Tsai, Radwaste Management Center
- 3B-2 – The Significance of and Prospects for Fuel Recycle in Japan by Kazuhiko Otsuka, Natural Resources and Energy Agency, Ministry of Int'l Trade & Industry, and Kaname Ikeda, Atomic Energy Bureau of the Sci. & Tech. Agency, Tokyo
- 3B-3 – Economic Analysis of Fuel Recycle by Poong-Eil Juhn, Korea Advanced Energy Research Institute
- 3B-4 – Pannel Discussion: Fuel Recycle – Viewpoints of Supplier and Non-Supplier Countries

**Luncheon (1230-1400): Speech—Jan W. Mares, Assistant Secretary, DOE, Washington, D.C.**

**Song by Nancy Snyder Muntzing, Soprano**

**Session 4: Regional Cooperation (1400-1815)**

**Coordinator** : KunMo Chung, Korea Power Engineering Co.

**Chairman** : KunMo Chung, KOPEC

**Co-Chairman**: L. Manning Muntzing, Doub & Muntzing Chartered

**Special Lecture: The IAEA's Role in Regional Cooperation**

**by Carlos Vélez Ocón, IAEA (1400-1440)**

- 4-1 – Regional Nuclear Training by Charles Newstead (Dept. of State, Washington, D.C.) + J. Spitalnik & Gilson Fonseca (Nuclebras) + Duk Sun Lee (Korea Adv. Energy Res. Inst.)
- 4-2 – Pooled Spare Parts Inventories by Robert W. Deutsch (General Physics Corp., Maryland) + I-Hsien Chu (Taipower Co.) + Bo Hun Chung (Korea Electric Power Corp.) + Kenneth E. Bromenschenkel (Power Mgmt. Associates, North Carolina)

Coffee Break (1520-1530)

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- 4-3 – Nuclear Safety by Walter Kato (BNL) + J.H. Chen (Taipower Co.)  
+ R.B.V. Simmons (AECL) + Susumu Suguri (NUPEC–JINS)  
+ Dong Hoon Kim (Korea Adv. Energy Res. Inst.)
  - 4-4 – Codes and Standards by C. Keith Paulson (Westinghouse)  
+ E.M. Yaremy (AECL) + Shiyohl Park (Korean Nuclear Soc.)
  - 4-5 – **Group Workshops** (Audience Participation) in Parallel:  
Discussion Leaders
    - 4-1: Zhao Renkai, Chinese Nuclear Society
    - 4-2: Shunichi Hamaguchi, Kansai Electric Co.
    - 4-3: E. Lin, Taiwan Power Co.
    - 4-4: F. Franzen, IAEA

**May 22, 1985 (Wednesday)**

Chairmen's and Speakers' Breakfast (0730-0830)

**Session 5: Small & Medium Size Nuclear Reactors (0900-1215)**

Coordinator : Poong-Eil Juhn, Korea Adv. Energy Res. Inst.

Chairman : K.G. Dharmawardena, Atomic Energy Auth., Colombo

Co-Chairman : Hiroshi Takahashi, Institute of Energy Economics, Tokyo

**Special Lecture: Public Acceptance of Nuclear Power and the  
Meaning of Reactor Safety by Sir Walter Marshall,  
Central Electricity Generating Board, London (0900-0940)**

- 5-1 – Summary Report on the IAEA Small and Medium Power  
Reactor Study by L.V. Konstantinov and R. Skjoeldebrand, IAEA
- 5-2 – Design and Construction of the Qinshan Nuclear Power Station  
by Ouyang Yu, Shanghai Nuclear Engineering Research  
and Design Institute

Coffee Break (1035-1055)

- 5-3 – A Perspective on Small and Medium Size Reactors  
by Karl E. Stahlkopf and Chaim Braun, EPRI
- 5-4 – Experience in the Design of the CANDU 300 Reactor  
by G.L. Brooks and D. Tregunno, AECL
- 5-5 – Inherently Safe SECURE Reactors  
by Carl-Olof Skygge, ASEA-ATOM
- 5-6 – View of Pakistan Atomic Energy Commission Towards  
SMPR's in the Light of KANUPP Performance  
by S.D. Huseini, Karachi Nuclear Power Plant

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**Session 6: The Application of Radioisotopes and Radiation Technology**

**Coordinator** : Young Kuk Kim, Korea Adv. Energy Res. Inst.

**Session 6A: Radioisotope Production (1400-1530)**

**Chairman** : Zhou Ruiying, Beijing Normal University

**Co-Chairman** : Hisyam Hubeis, Nuclear Center, Bandung

- 6A-1 – Radioisotope Programme in India – Production and Application  
by M.V. Ramaniah, V.K. Iya, R.G. Deshpande, R.S. Mani,  
T.S. Murthy and K. Krishnamurthy, Bhabha Atomic Research Centre
- 6A-2 – Overview on Radioisotope Production and Utilization  
by W.P. O'Neill, AECL
- 6A-3 – Radioisotope Production and Its Utilization in Malaysia  
by Yusof Azuddin bin Ali, Nuclear Energy Unit
- 6A-4 – Audience Participation

Coffee Break (1515-1530)

**Session 6B: Sterilization and Food Preservation by Radiation (1530-1620)**

**Chairman** : Monnon Aramratana, AEC, Bangkok

**Co-Chairman** : Datuk M. Ghazali, PUSPATI, Kuala Lumpur

- 6B-1 – Fish and Food Preservation by Radiation  
by Mir Mosharrof Hossain, Dacca
- 6B-2 – Sterilization of Medical Products by Gamma Radiation  
by D.G. Walker and P.A. Wills, Australian AEC
- 6B-3 – An Oriental Mystery: Ginseng  
by Taik Koo Yun, Han Ok Cho and Yeon Sook Yun,  
Korea Advanced Energy Research Institute

Ginseng Tea Break

**Session 6C: Radioisotope Application and Radiation Processing (1620-1800)**

**Chairman** : Nazly Hilmy, Radioisotope Center, Jakarta

**Co-Chairman** : Ruben Bello, Mexico City

- 6C-1 – A Study on Increasing Production of Natural Silk by Using  
Low Dose Irradiation by Zhou Ruiying, Zang Yinfen,  
Beijing Normal University and Cui Dingzhu and Rong Jinxian,  
Beijing Chinese Silkworm Species Farm
- 6C-2 – Application of Radioisotope Techniques to the Mineral Industry  
by J.S. Watt, CSIRO, Lucas Heights Res. Lab.
- 6C-3 – Radiation-Induced Mutations and Plant Breeding by Muhammad  
Shafique, Chashma Nuclear Power Project, Islamabad
- 6C-4 – Audience Participation

**Banquet and Show (1830-2100)**

**Speech: Korean History and Culture** by Hahn, Gap-Soo

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**May 23, 1985 (Thursday)**

Chairman's and Speakers' Breakfast (0730-0830)

**Session 7: Service and Maintenance of Operating Nuclear Plants (0900-1200)**

**Coordinator** : Bo Hun Chung, Korea Electric Power Corp.

**Chairman** : Shiro Sasaki, Tokyo Electric Power Co.

**Co-Chairman** : Evaldo Cesari de Oliveira, Furnas Centrais, Rio de Janeiro

7-0 – Presentation on Regional Cooperation Workshop Outcome

7-1 – INPO's Role in the Improvement of Nuclear Plant Safety and Reliability by Zack T. Pate, INPO and Technical Services for the Improvement of Plant Reliability by Stanley B. Jacobs and W.B. Dodson, Stone & Webster

7-2 – Experience in Scheduled Maintenance by Maw-Tsuen Tsai, Taiwan Power Co.

Coffee Break (1020-1040)

7-3 – Pre-Service Inspection and In-Service Inspection in Japan by Tsuneo Uebayashi and Yoshio Miyake, Mitsubishi Heavy Ind., Ltd.

7-4 – Field Services Experiences by John A. Colflesh, Peter W. Kruse and Robert A. Merluzzi, Combustion Engineering

7-5 – Reactor Internals Modification for Up-Flow Conversion in Korea Nuclear Unit 1 by Chang Tong Choi, Korea Electric Power Corp.

**Special Lecture: Korea's Economic Development: Retrospect and Prospects**  
by Duck-Woo Nam, Korean Traders Association (1120-1200)

**Session 8: Closing Session (Simultaneous Translation in Korean and English)**  
(1200-1230)

- Closing Remarks by Byong Whi Lee, Chairman, Orgn. Committee, the 5th PBNC
- Introductory Remarks by the 6th PBNC Host Organ's Representative (Lu Guangyi, Secretary-General, CNS)
- Remarks by the Minister of Energy and Resources
- Closing by a VIP

**Proceedings**

*Proceedings will be available at US\$50 at the information desk in the Lobby of Convention Center.*

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# Pacific Basin Nuclear Exhibit

Participants in the Pacific Basin Nuclear Exhibit to be held in parallel with the 5th Pacific Basin Nuclear Conference will reach the largest and most brisk nuclear power market in the world.

The majority of the world's suppliers and recipients of nuclear technology and related goods and services located in the Pacific rim have been actively cooperating or competing in various ways.

Looking at the Far East, Japan, China and Korea herself are strong supporters of enlarging nuclear power programs due to the scarcity of domestic energy resources.

Opening Ceremony of the Exhibit Hall will be held on May 19, 5 p.m. at the Exhibit Hall.

## Exhibit Hours

May 19 : 3 p.m.-6 p.m.

May 20-22 : 9 a.m.-6 p.m.

May 23 : 9 a.m.-1 p.m.

Booths	Exhibitors
1-3	Combustion Engineering, Inc.
4	Chem-Nuclear Systems Inc.
5-10, 62	Atomic Energy of Canada, Ltd.
11-14	General Electric Company
15-16	Conax Buffalo Corporation
17	Babcock & Wilcox Company
18	U.S. Department of Energy
19	Ansaldo SPA
20	Promotion Marches Exterieurs American Nuclear Society
21	GA Technologies, Inc.-Sorrento Elec. Div.
22-23	Brown Boveri Reaktor GmbH
24-28	Westinghouse Electric Corporation
29, 42	Japan External Trade Orgn.
30-31	Hitachi, Ltd.
32-33	Mitsubishi Atomic Power Ind., Inc. Mitsubishi Electric Corp. Mitsubishi Heavy Industries, Ltd.
34-35	Toshiba Corp. Ishikawajima-Harima Heavy Ind., Ltd. Nippon Atomic Industry Group Co., Ltd.
36	The Japan Steel Works, Ltd.
37	Sumitomo Metal Industries, Ltd.
38	Kobe Steel, Ltd.
39	Chiyoda Chemical Engng. & Const. Co., Ltd
40	Toyo Engineering Corp.
41	JGC Corporation
43	Okano Valve Manufacturing Co.
44	Aloka Co., Ltd.
45	Fuji Electric Co., Ltd.
46	Matsushita Industrial Equipment Co., Ltd.
47	Taihan Electric Wire Co., Ltd.
48	Korea Heavy Industries & Const. Co., Ltd.
49	Korea Power Engineering Co., Inc.
50	Gold Star Cable Co., Ltd.
51-52	Framatome
53	Cogema
54-55	Alsthom Atlantique
56-57	Hyundai Engng. & Construction Co., Ltd.
58	Korea Electric Power Corp.
59	Daewoo-ITT Engineered Products, Ltd.
60	Hyosung Heavy Industries, Ltd.
61	WIRTH
63	NUS Corporation
64	GAPCO, a Division of Dimetrics Kerotest Manufacturing Corp.
65	INET Corporation Pacific Nuclear Systems
66	Technical Associates Owens-Corning Fiberglas
67	Shin Han Scientific Co., Ltd.

Sheraton Walker Hill Exhibit Hall

