United Nations Educational, Scientific and Cultural Organization (UNESCO)
Division for Science Policy and Sustainable Development
Natural Sciences Sector, UNESCO
1, rue Miollis 75732 Paris Cedex 15 France
Tel. +33 1 45 68 39 17  Fax. +33 1 45 68 58 27
Website. www.unesco.org

World Technopolis Association
70 Hyangchongil, Seo-gu, Daejeon 302-789, Republic of Korea
Tel. +82 42 600 2291-5  Fax. +82 42 471 2319
Website. www.wtanet.org
International Training Workshop

2009 UNESCO-WTA

DATE
11 - 14 November 2009

VENUE
Conference Hall, Daedeok Innopolis, Daejeon, KOREA
UNESCO and WTA have been working together during the last several years based on the awareness that important synergies and complementary elements exist between them. Both organizations have expressed their intention to render assistance to each other to improve their service and functions with a view to promote science, technology and innovation for sustainable development. Special gratitude goes to the Korea International Cooperation Agency (KOICA), the Daejeon Metropolitan City Government, the Islamic Educational, Scientific and Cultural Organization (ISESCO) and to all national governments for their support to this programme.

The international training workshop, as a kind of capacity-building activity on science park governance, has been organized by international cooperation between WTA (World Technopolis Association) and UNESCO (United Nations Educational, Scientific and Cultural Organization) since 2005. In particular, it aims to regularly upgrade the knowledge of managers or future managers of science and technology parks in developing countries with a view to marshalling science technology and innovation for sustainable development.

This year, we will provide an opportunity to analyze and discuss current issues and problems being faced by special agenda on Green Growth based on the Science Park Initiatives. Within this framework, the objectives of this workshop basically are as followings:

- Promoting the knowledge transfer between developing and developed countries.
- Network-building among science parks and innovative clusters in global context.
- Establishing a cooperative regional network among science parks or technopolises.
- Sharing the valuable information and experience in science park governance.

**Training programs since 2005**

- **Year 2005**
  - Science City Governance
    - November 1-7, 2005
    - The Information and Communication University, Daejeon

- **Year 2006**
  - High-tech Clusters in Global Context
    - November 6-10, 2006
    - Daejeon City Hall

- **Year 2007**
  - Towards Sustainable Growth of Science and Technology Park: Role of Technology Business Incubation in Techno Park
    - November 6-10, 2007
    - Daedeok INNOPOLIS

- **Year 2008**
  - Towards Creative Growth of Science Park and Innovative Cluster
    - October 8-11, 2008
    - Daejeon Convention Center
## OUTLINE

### Date

November 11<sup>th</sup> ~ 14<sup>th</sup> (four days), 2009

### Venue

Conference Hall, Daeheok Innopolis, Daejeon, KOREA

### Theme

Green Growth based on the Science Park Initiatives

**Session 1**  Technopolis Development and Green Growth  
**Session 2**  Strategic Industry and Green Growth in the Region  
**Session 3**  Support Mechanism in Technopolis towards Green Growth

### Host Organizations

- World Technopolis Association (WTA)  
- United Nations of Educational, Scientific and Cultural Organization (UNESCO)

### Partners

- Korea International Cooperation Agency (KOICA)  
- Korean National Commission for UNESCO  
- Daedeok Innopolis  
- Asian Science Park Association (ASPA)

### Workshop Session (11-13 November)

- Keynote Speech  
- Lectures: technical presentations by invited lecturers (Session 1-3)  
- Country Presentations: case presentations by the trainees (Session 4)  
- Plenary Discussion on science park governance

### Post-Tour (13-14 November)

- Technical Tour  
- Cultural Tour  
  - Cultural Heritage in Seoul
<table>
<thead>
<tr>
<th><strong>DATE</strong></th>
<th>10 Nov.(TUE)</th>
<th>11 Nov.(WED)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Time</strong></td>
<td><strong>Venue</strong></td>
<td><strong>Conference Hall, Daedeok Innopolis</strong></td>
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<tr>
<td>09:00-09:30 Hrs</td>
<td></td>
<td><strong>Opening / Welcome Address (9:30-9:40)</strong>&lt;br&gt;- Mr. Park Seoung-Hyo (President of WTA)&lt;br&gt;- Mr. Mustafa El Tayeb (UNESCO)</td>
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<tr>
<td>09:30-10:00 Hrs</td>
<td></td>
<td><strong>Congratulatory Address (9:40-10:00)</strong>&lt;br&gt;- Mr. Yu, Ji-Eun (Vice President of KOICA)&lt;br&gt;- Mr. Chung, Utak (Assistant Secretary General of the Korean National Commission for UNESCO)&lt;br&gt;- Mr. Oh, Tae-Shik (Executive Director, Technology Commercialization Center, Daedeok Innopolis)&lt;br&gt;- Mr. Kwon, Sunkook (Secretary General, Asian Science Park Association)</td>
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<tr>
<td>10:00-10:30 Hrs</td>
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<td><strong>Keynote Speech (10:00-11:30)</strong>&lt;br&gt;Prof. Fred Young Philips (Alliant International University, USA)</td>
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<tr>
<td>10:30-11:00 Hrs</td>
<td></td>
<td>Lunch &amp; Networking</td>
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<tr>
<td>11:00-11:30 Hrs</td>
<td></td>
<td><strong>SESSION 1</strong>&lt;br&gt;<strong>Moderator:</strong> Prof. Byung-Joo Kang</td>
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<tr>
<td>11:30-12:00 Hrs</td>
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<td>1-1. Prof. Deog-Seong Oh&lt;br&gt;Chungnam National University, Korea</td>
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<tr>
<td>12:00-14:00 Hrs</td>
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<td>1-2. Prof. Byung-Ho Oh&lt;br&gt;Hanyang University, Korea</td>
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<tr>
<td>14:00-14:30 Hrs</td>
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<td>1-3. Prof. Shiann-far Kung&lt;br&gt;National Chengkung University, Taiwan</td>
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<tr>
<td>14:30-15:00 Hrs</td>
<td></td>
<td>Coffee &amp; Networking</td>
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<tr>
<td>15:00-15:30 Hrs</td>
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<td>Plenary Discussion&lt;br&gt;Prof. Lee, Seong-Keun (Yeungnam University, Korea)</td>
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<tr>
<td>15:30-16:00 Hrs</td>
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<td>Welcome Dinner&lt;br&gt;Hosted by President of WTA&lt;br&gt;(Hotel Riviera, Yuseong)</td>
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<td>16:00-16:30 Hrs</td>
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<td>16:30-17:00 Hrs</td>
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<td>17:00-17:30 Hrs</td>
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<td>17:30-18:00 Hrs</td>
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<tr>
<td>18:30-20:00 Hrs</td>
<td>Reception (Hotel Spapia)</td>
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</tbody>
</table>
### 12 Nov. (THU)
**Conference Hall, Daedeok Innopolis**

#### SESSION 2
Moderator: Prof. Deog-Seong Oh

- **2-1. Prof. Erik Lindhult**  
  Mälardalen University, Sweden
- **2-2. Prof. Eberhard Becker**  
  Dortmund University of Technology, Germany
- **2-3. Prof. Michi Fukushima**  
  Tohoku University, Japan

**Plenary Discussion**
Prof. Yook, Dong-II (Chungnam National University, Korea)
Prof. Kim, Hak-Min (CEO, Chungnam Techno Park, Korea)

**Lunch & Networking**
(by Daejeon Chamber of Commerce and Industry)

### 13 Nov. (FRI)
**Conference Hall, Daedeok Innopolis**

#### SESSION 4
Moderator: Prof. Deog-Seong Oh  
Dr. Yoslan Nur

**Country Presentation (part 1)**
- Successful cases on science and technology park development

#### SESSION 3
Moderator: Dr. Yoslan Nur

- **3-1. Dr. Herbert Chen**  
  Tsinghua Science Park, China
- **3-2. Dr. Malcolm Parry**  
  Surrey Research Park, UK
- **3-3. Prof. Suk-Chan Ko**  
  Dankook University, Korea

**Coffee & Networking**

**Plenary Discussion**
Prof. Kim, Jong-Deuk (KAIST, Korea)
Mr. Seo, Junseok (Daedeok Innopolis, Korea)

**Workshop Dinner**
- Hosted by Secretary General of WTA  
  *(Yuseong Hotel)*

### 14 Nov. (SAT)
**SEOUL**

#### POST TOUR 2
**Cultural Tour**
- **Gyeongbokgung**  
  : Korean Royal Palace
- **Insadong**  
  : Cultural Street
- **Cheong Gye Cheon**  
  : Urban Renewal Project
- **Seoul Tower**  
  : Observatory

#### POST TOUR 1
**Technical Tour**
- Multifunctional Administrative City “Sejong”

**Networking program between attending people**

**Farewell Dinner**
- Hosted by WTA  
  *(Hotel Adria)*

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**2009 UNESCO-WTA International Training Workshop**

**UNESCO-WTA Cooperative Project**

www.unesco.org
Dr. FRED PHILLIPS joined Alliant International University in 2006 as Associate Provost for Research, and Professor of Management in the Marshall Goldsmith School of Management. He came to Alliant from Maastricht School of Management, in the Netherlands, where he was Associate Dean and where he remains, for part of each year, Professor of Marketing, Entrepreneurship, and Research Methods. He is also a Senior Fellow at the IC² Institute of the University of Texas at Austin and Profesor Afiliado at CENTRUM, the business school of the Pontificia Universidad Católica de Lima.

In Texas, Oregon, and Holland, he has been a leader in developing graduate management curricula for employees of international and high-tech companies. His contributions in operations research include “Phillips’ Law” of longitudinal sampling, and the first parallel computing experiments with Data Envelopment Analysis. He is co-recipient of grants totaling $5 million from the Air Force Office of Scientific Research for the study of Japanese technology management practices. He brought many other grants to IC², OGI, and MSM, and was recently co-principal investigator on a $1 million NSF project, developing advanced information systems for the US Forest Service. He has won several awards for outstanding research.

Dr. Phillips is Senior Editor of Elsevier’s international journal Technological Forecasting & Social Change. He authored the textbook for Decision Makers (General Informatics 2003), and most recently a book on high-tech economic development, The Technopolis Columns (Palgrave 2006).

In addition to current appointments, he has held teaching, research, and management positions at the Universities of Aston and Birmingham in England, General Motors Research Laboratories, Market Research Corporation of America, the University of Texas at Austin, Oregon Graduate Institute of Science & Technology, SUNY Stony Brook, and Battelle-Pacific Northwest National Laboratories.

Dr. Phillips has been a consultant to such organizations as Intel, Texas Instruments, and Frito-Lay Inc., and has consulted worldwide on technology based regional development. He is a founder of the Austin Technology Council, and was also a Board member for the Software Association of Oregon. He is a popular op-ed columnist and panel member in forums dealing with trends in management, technology, higher education, and economic development.

Dr. Phillips attended The University of Texas and Tokyo Institute of Technology, earning the Ph.D. at Texas (1978) in mathematics and management science. Married to Sue Phillips since 1979 and with two grown daughters, Fred enjoys his mission as an educator. His avocational passions are aikido, Argentine tango, travel and writing.
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Lecturer</th>
<th>Organization</th>
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<tbody>
<tr>
<td>Keynote Lecture</td>
<td>90min</td>
<td>Prof. Fred Young Philips</td>
<td>Alliant International University, USA</td>
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<tr>
<td>Session 1</td>
<td>1-1</td>
<td>60min</td>
<td>Prof. Deog-Seong Oh</td>
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<tr>
<td></td>
<td>1-2</td>
<td>30min</td>
<td>Prof. Byung-Ho Oh</td>
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<td></td>
<td>1-3</td>
<td>30min</td>
<td>Prof. Shiiann-far Kung</td>
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<tr>
<td>Session 2</td>
<td>2-1</td>
<td>60min</td>
<td>Prof. Erik Lindhult</td>
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<tr>
<td></td>
<td>2-2</td>
<td>30min</td>
<td>Prof. Eberhard Becker</td>
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<td></td>
<td>2-3</td>
<td>30min</td>
<td>Prof. Michi Fukushima</td>
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<tr>
<td>Session 3</td>
<td>3-1</td>
<td>60min</td>
<td>Dr. Herbert Chen</td>
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<tr>
<td></td>
<td>3-2</td>
<td>30min</td>
<td>Dr. Malcolm Parry</td>
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<td></td>
<td>3-3</td>
<td>30min</td>
<td>Prof. Suk-Chan Ko</td>
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</tbody>
</table>

### Session 1-1

**Secretary General of WTA, Professor of Chungnam National University, Korea**

Telephone : +82 42 600 2293, Fax : +82 42 471 2319, Email : ds_oh@cnu.ac

Prof. Deog-Seong Oh is currently a professor of College of Engineering at Chungnam National University, Daejeon, Republic of Korea and Secretary General of World Technopolis Association (WTA) which consists of 56 member cities in 24 countries in the world. He has involved in WTA as a Chairman of the Academic Committee since 1997 and is acting the role of General Secretary since 2004. WTA is currently doing the cooperative projects of Science City governance with UNESCO.

He received a Master of Urban Planning in 1979 and a Master of Science in Architecture from Seoul National University, Korea in 1981. He got a PhD degree in Urban Planning from Hanover University, Germany in 1989. He did his post-doctoral research at University of Sheffield, UK in 1993. He joined the faculty of spatial planning at University of Dortmund as a visiting professor in 2002-2004.

He also acted the executive director of Regional Development Research Institute (RDRI) for 7 years from 1995 which did important role for regional innovation in Daejeon City and Chungnam province. He was asked by the President Chungnam National University to do the management of whole university as provost.

In academic society, he was vice president of KPA (Korean Planner Association) and joined several domestic and international association of town planning and Regional development. He is also the chief editor of APPR (Asian Pacific Planning Review).


He is involved with several committees of central and local government as special advisor to the Presidential committee of National Balanced Development, Ministry of Industry and Resources, Daejeon metropolitan City, Chungnam Province among others.

He has also done several important development projects of science and technology parks such as Daedeok Techno Valley, Chungnum Technopark, Kyungbuk Technopark, Seoul business incubator, and the master plan of Daedeok Science Town to mention a few.
Prof. Byung-Ho Oh
Hanyang University, Korea

Session 1-2

Suite 301, #7 Kyunghe Gung 2gil, Shinmunro 2ga, Chongrogu, Seoul, Korea
Telephone: 82-2-3299-1200, Fax: 82-2-3299-1240, Mobile: 82-10-8422-7531, E-mail: droh@kdischool.ac.kr

Education

Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts, USA
Master of City Planning (MCP), (Thesis in the field of Urban Planning: Bigger and More is not Always Better: Self-Help Infrastructure) 1976
Bachelor of Science in Urban Engineering (Completed the joint MCP/B.Sc. Degree Program at MIT) 1976

University of Southern California (USC), Los Angeles, California, USA
James Irvine Fellow, Center for Public Administration, 1976-1977

Employment History

Professor, Graduate School of Urban Studies and Planning, Hanyang University (2008. 3-present)
Senior Partner (member of the Board of Directors), BHP Korea Ltd. (2001-2007)
Visiting Professor, Korea Development Institute (KDI) School of Public Policy and Management (2001-present)
CEO and President, Prime Industrial Development Co., Ltd. (2000)
Senior Research Fellow, Strategic Development Projects, Seoul Development Institute, Seoul Metropolitan Government (1999),
Managing Director and Vice President, LG Construction Co., Ltd., (1997-1999), Responsible for International Business Development and Development Projects
Managing Director, Social Overhead Capital (SOC) project development and coordination of the group’s real estate, LG Group Chairman’s Executive Office for Strategic Projects (1995-1997)
Advisor, SOC (private sector funded infrastructure) Project Planning, Samsung Group Chairman’s Office (1994-1995)
Consultant Manager, Goss Gilroy, Inc. Ottawa, Canada (Management Consulting Firm, 1990-1993)
Deputy Chief Planner, City Planning Department, Vollmer Associate, New York City (1980-1981)

Prof. Shiann-far Kung
National Chengkung University, Taiwan

Session 1-3

Citizenship: Taiwan, Republic of China, Born: 15 June 1955, Married with three children

Education:

Working experience:
Associate professor, Institute of Creative Industry Design, National Cheng Kung University (2006-).
Director, National Land Development Research Center, National Cheng Kung University (2003-).
Associate professor, Department of Urban Planning, National Cheng Kung University (1996-).
Erik Lindhult is assistant professor at Mälardalen University in Sweden at the department of innovation, entrepreneurship and business creation, doing research and lecturing in the area of innovation management, entrepreneurship, change management and international business. He received his doctoral degree at the School of industrial management, the Royal Institute of Technology in Stockholm, in the area of broad based, collaborative and democratic innovation and change management. His research interests also involve collaborative research methodology, including action research and interactive research where researcher and practitioners co-produce knowledge and innovation. He has been involved in a wide range of collaborative R&D projects both in the private, public and cooperative sectors, in areas such as IT-system development in retailing and school development.

A main research theme is broadened concepts of entrepreneurship and innovation as a basis for sustainable development of society, e.g. in the form of social and societal entrepreneurship, ecopreneurship, regional entrepreneurship, open and democratizing innovation and the role of development partnerships as medium for entrepreneurship and innovation. He is currently engaged in research on incubator and science park development in Sweden, including topics such as business coaching, academic entrepreneurship, preincubation and societal entrepreneurship.

Eberhard Becker studied Mathematics and Physics at the University of Hamburg, Germany, from 1964 until 1970 and received his Diploma in Mathematics in 1970. In 1970 he started a position as assistant professor at the Department of Mathematics at the University of Koeln, Germany. He received his Ph.D. degree in Mathematics in 1972 from the University of Hamburg and in 1976, he finished his habilitation at the University of Koeln. From 1979 on, Eberhard Becker held the Chair of Algebra at the Department of Mathematics at the University of Dortmund.

His scientific career was characterized through numerous invitations as guest professor to universities and research institutes all over the world, including Cornell University, the University of California Campus Berkeley, Los Angeles, Santa Barbara and San Diego, Goetheburg University and the Université de Rennes as well as Instituto National de Matemática Pura e Aplicada IMPA in Brazil and the Mathematical Sciences Research Institute MSRI at Berkeley. In addition, Eberhard Becker was engaged from 1986 until 2001 as editor of the Mathematische Zeitschrift (Managing director from 1990 on) and from 1995 until 2001 as Editor of the Springer Series “Algorithms and Computation in Mathematics”. He was coordinator and participant of European Research Networks, as well as of a research cluster and a graduate school on the subject of “data security”. In 2000, the Deutsche Forschungsgemeinschaft DFG (German Research Foundation) elected him expert consultant in Mathematics.

Becker gained management experience as the head of institute, dean, and member of the university’s senate. He took a lead in developing the interdisciplinary degree course “business mathematics”, and in the development of the BA and MA degree programmes in computer science and mathematics.

In 2002, Eberhard Becker was elected Rector of the University of Dortmund. In the following, he pursued a clear strategy of internationalization for the university. In 2005, he was elected Chairman of the University Presidents’ Conference of the World Technopolis Association WTA, as well as Chairman of the European Consortium of Innovative Universities ECIU and Chairman of the Executive Board of the International Association of University Presidents IAUP.

In 2006, he was re-elected as Rector of the University of Dortmund. In his second term, he further forced the strategic development of the university, resulting in the re-naming of the university as “Dortmund University of Technology”.

Eberhard Becker was born 1943 in Mecklenburg, is married and father to three daughters.
Session 2-3

E-mail: michi@econ.tohoku.ac.jp

Associate Professor of Tohoku University, graduate school of Management and Economics.
Her specialty is “strategic management”, “technology transfer”, “innovation”, “cluster formation”. Recently, she is interested in “technology commercialization”.

Recent Paper:
“Does a favorable environment have a positive effect on university technology transfer activities? A case study on two Texas state universities”, IAMOT2008 proceeding, 2008.
“The Role of Informal Network that inspire a soul” Triple Helix VI, proceeding, 2007.

Session 3-1

Telephone: +86 10 62 79 32 89 (D.L.), Fax: +86 10 62 77 27 77, E-mail: chenhongbo@thsp.com.cn

Tsinghua University Science Park Co., Ltd, Beijing P.R. China

Date of Birth: 1960 03 / Place of Birth: Beijing, P.R. China./ Nationality: Australian

Current Position & Job description

President, Asian Pacific Division, IASP
Deputy Director, Tsinghua Science Park Development Center / Deputy Director, Tsinghua University Science Park Co., Ltd
1. Daily operation of Tsinghua University Science Park Co., Ltd
2. Brand & propaganda Management / 3. International Affairs

Education
B. Eng: 1979 1984 Tsinghua University, Beijing, P.R. China
M. Eng: 1991-1992 Asian Institute of Technology, Bangkok, Thailand

Work Experience
Deputy Director (2001-Now), Tsinghua University Science Park Co., Ltd, Beijing P. R. China
Senior Engineer (1996-2001), NEC Australia, Melbourne, Australia
Deputy Factory Manager (1992-1995), T.M. Group of Companies, Bangkok, Thailand
General Secretary of the Governor (1988-1990), The Government of the Shanxi Province, Shanxi, P. R. China
Lecturer (1984-1988), Tsinghua University, Beijing, China.

IASEP 2010 DAEDEOK
27th IASP World Conference on Science and Technology Parks

Theme: Global Green Growth (G³): Challenges and Opportunities for Science and Technology Parks

May 23~26, 2010 Daejeon Convention Center, Daejeon, Korea

www.iasp2010ddi.com
Dr. Malcolm Parry
Surrey Research Park, UK

Dr. Malcolm Parry trained as a scientist and secured his degrees from the University of London. He joined The University of Surrey in 1977, ran a successful commercially funded research group, was appointed as a senior industrial tutor during which time he established a network of contacts with industrial research laboratories. He founded the Surrey Research Park in 1981 at the request of the then Vice Chancellor of the University of Surrey. Malcolm has been involved with the WTA since it first started its activities in the late 1980s. He has also been a member of the International Association of Science Parks (IASP) for over 15 years, sat on their Board and until the end of 2007 worked on their Advisory Council. He is a consultant to UNESCO as an expert on Science Parks, and recently helped UN to prepare an innovation related plan for the Accession Countries in the EU. He has also edited two of the UK Science Park Association’s (UKSPA) major publications on the planning, development and operation of science parks the most recent of which was published in 2006. Dr Parry was one of the founders of the UKSPA and is currently the Vice Chair of the organisation. He also acts as a consultant on the planning development and operation of science parks.

Malcolm also has commercial experience through three spin-out companies he built up and sold. He received an OBE from the Queen in recognition of his contribution and services to education and business.

Prof. Suk-Chan Ko
Dankook University, Korea

E-mail: sukchan@dankook.ac.kr

Education
University of North Carolina at Chapel Hill, Ph.D., City & Regional Planning, May 1993
University of Texas at Austin, MS., Community and Regional Planning, May 1989
Yonsei University, MA., Public Administration, August 1985
Yonsei University, BA., Public Administration, February 1983

Positions Held
Associate Professor of City & Regional Planning, Dankook University, Seoul, March 2002-present
Director, Department of Urban Administration, Dankook University, 2000-2002-05-06
Assistant Professor of Urban Administration, Dankook University, August 1993-March 2002
Lecturer, the Graduate School of Public Administration at Yonsei University, March 1994-August 1999 (taught Urban & Regional Economics)
Consultant to Chungnam Technopark, January 2000-present
Consultant to the City of Yongin for the Comprehensive Planning, 1998-2001
Consultant to the City of Jeju in Korea, 2001-present
Consultant to the Ministry of Science & Technology, 1998-2000

Sponsored Research (PI or co-PI, since 1995: selected list)
“The Development of Science Park in Jeju City” sponsored by the City of Jeju, 2001.

Areas of Interest
My areas of interest and expertise are in the areas of regional economic development, development and management of science and technology parks, and science and technology. I teach undergraduate courses on “Introduction to City Planning”, “History of Urban Development”, “Urban Economics”, and “Research Methods.” I also teach graduate level courses on “Advanced Research Methods”, “Science & Technology Policy for Regional Development.”