

2015 Daejeon Global
Innovation Forum

2015 UNESCO-WTA
International Training
Workshop

12th WTA Daejeon
Hi-Tech Fair &
Business Conference

World Technopolis Association Yearly Events in 2015

22nd-25th September 2015

Daejeon Convention Center, Daejeon, Republic of Korea

In celebration of 70th
Anniversary of UNESCO

2015 Daejeon Global
Innovation Forum

Sharing Innovation's Benefits

2015 UNESCO-WTA
International Training
Workshop

Establishing the STP/Technopolis
and Innovation Platform

12th WTA Daejeon
Hi-Tech Fair &
Business Conference

Sharing Innovation's Benefits of
Academia-Industry Collaboration



Global Network
Leading to Sustainable Technopolis Development

World Technopolis Association

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World Technopolis Association



**United Nations Educational,
Scientific and Cultural Organization**

2015 Daejeon Global Innovation Forum

In celebration of 70th Anniversary of UNESCO



Theme
**Sharing Innovation's
Benefits**

Date
23rd-24th September 2015

Venue
Daejeon Convention Center,
Daejeon,
Republic of Korea

Science technology innovation and the sustainable economic growth are one of the main issues in 21st century worldwide. Many experts agree that one of the important tasks is, based on the convergence among the industrial sectors such as IT, BT, NT, ET, and new industries, to pioneer new industrial groups and to review the model of economic growth. In particular, the technology convergence, which strives to develop new technologies and foster new industries that are based on consolidation between science technology and other sectors, is attracting attention as an innovation strategy and motivity for future growth. Recently, the technology convergence focuses not only on unification between new technologies but looks beyond convergence among high-tech industries, and reaches out to alliance between locally-related conventional industry and high-tech industry. The target of partnership with science technology is becoming diverse as far as to the humanities and social sectors.

However, economic growth and job creation that are based on the science technology innovation are driven by only a few innovation precursors. Additionally, the innovations' benefits are distributed solely around the high-tech clusters in some developed countries. Other important challenges for the sustainable economic growth are to resolve economic disparity, to promote balanced growth of both developed and developing countries, and to ensure that all members of the global community can share the paradigm of economic growth. In other words, sharing the benefits of science technology innovation will help bridge the gap between countries and regions, improve the economic disparity, and make sustainable advancement of future-oriented global community possible.

Because UNESCO and WTA embody the purpose and vision of sharing innovations' benefits and absolutely understand its importance, we together have been serving the role as liaison connecting the developed and developing countries. Since Daejeon Global Innovation Forum began with such motif, this year's topic "Sharing Innovation's Benefits" will be meaningful because of its clear connection with the foundation purpose of both organizations.

The forum will host comprehensive discussions at 3 plenary sessions. 'Science and Technology: Global Trends and Challenges (Plenary Session 1)' will focus on the sharing innovations' benefits. 'Fostering SMEs' Awareness, Adoption and Exploitation of Innovation (Plenary Session 2)' will promote establishing connection between the innovations' benefits and industrial and economic growth. 'Innovation Precursors & Entrepreneurship Development (Plenary Session 3)' will look at future leaders whom will lead the envisioned work. We also intend to prepare a discussion at the closing stage for sharing detailed strategy and experience among developed and developing countries.

To share the innovation's benefits, the forum will invite entrepreneurs as well as experts from various walks of life, including professors, civil service officials, and NGO to participate in discussion of practical ways of sharing information. In addition to the aforementioned plenary sessions, the forum will host 2 thematic special sessions on 'Technology Convergence' and 'Appropriate (Grassroots) Technology' in terms of pilot project that can be practically implemented. 'Technology Convergence' session will introduce a success story on the convergence of agriculture and information communication technologies and will show examples of new industrial development possibilities and real business implementation in each nation. 'Appropriate (Grassroots) Technology' session will build upon the discussion of the previous forum, specifically about the acquisition, expansion, and propagation of appropriate (grassroots) technology for the purpose of assisting alienated people all around the world to establish their own lives. This year's session will investigate on necessary tasks for improvement of the environment and enhancement of the quality of life of developing countries through the appropriate (grassroots) technology, and will debate about specific possibilities of development of a model of cooperation between developed and developing countries and implementation strategy for achieving the mentioned tasks.

With the arrangement of coordinated and responsive discussions in the plenary sessions and the thematic special sessions, we hope the Forum to be more than just a presentation or discussion about theoretical opinions, and we expect it to be a platform for sharing the innovations' benefits that is implementable and applicable at the field.

Plenary Session



Plenary Session 1

Science and Technology: Global Trends and Challenges

This session will illustrate the paradigm of new science technology innovation and the global trends of new technology development, and highlight the way to share the innovation's benefits. We believe now is the time for the creation of new culture that can generate worldwide coexisting development by sharing the achievements of innovation, which is solely limited to only a few businesses in the developed countries. To achieve such an ambitious objective, a discussion about the effective cooperative plan will be arranged between collaborators of innovation. We hope to organize an opportunity that is devised for exchanging innovativeness so that the coexisting development can be communicated between developed and developing countries and MNCs and SMEs.

Plenary Session 2

Fostering SMEs' Awareness, Adoption, and Exploitation of Innovation

The fostering new technology leader with intent to develop high-tech industries is dependent on the creative abilities of the innovative leaders. It is imperative to build the innovative platforms to industrialize these creative abilities and to discover diverse strategy to nourish the technology-intensive SMEs.

This session will be a discussion floor for the sustainable training of the technology-intensive SMEs, the coexisting cooperation between MNCs and SMEs, formation of innovative community to support aforementioned objectives, preparation of innovative environment, and a strategy for industrial development.

Plenary Session 3

Innovation Precursors & Entrepreneurship Development

Major MNCs leading the development of the 21st century have been highly influenced by entrepreneurship of the innovation precursors and the foundation of supporting environment. The global innovation clusters, such as Silicon Valley, are well equipped with such environment. The plenary session 3 plans to meet the interest of many countries that aspire to foster new technology and economic growth, and provide a discussion about the future-oriented innovation plans by reviewing the stories of success and trial and error. Furthermore, with the purpose of establishing the innovation ecosystem, the session will conduct a discussion about the capacity building that attracts innovative intellectuals to the industrial field, development of entrepreneurship, the means of support, and the plans to promote cooperation between industry and academic.

Thematic Special Session

The plenary sessions will open up a discussion about the innovativeness and the value in sharing in terms of the collaborators and the trend of innovation. The Thematic Special Sessions are created in hopes for sharing the innovation outcomes of the science technology foundation can spread worldwide, so in-depth discussions about some specific topics, areas of study, current issues of local regions (continents), which are difficult to discuss in detail at the plenary sessions, will be conducted.

Special Session A	Special Session B
Technology Convergence	Appropriate(Grassroots) Technology Innovation of Developing Countries

Special Session A

hosted by
SK Telecom Co. Ltd.
+ Sejong Creative Economy
Innovation Center

Technology Convergence

With the advent of era of the Internet of things (IoT), innovations arise from the convergence of automobiles and daily necessities with the ICT technology. Not only that, the IoT is becoming actively involved in the areas of environmental management, residence, and energy management, and a new agricultural revolution is expected with the convergence with agricultural sector that was shunned by the traditional industry. The convergence of agriculture and new technologies, in terms of innovation initiatives, is considered an area that would excite interest in not only the developed countries but also developing countries. In particular, the 'Smart Farm' project, which is an example of convergence of ICT and agriculture, exemplifies that this new industrial field can contribute immensely in the coexisting development and the cooperation between the developed and developing countries. The 'Smart Farm' project is appreciated as an interesting case that demonstrated the possibility of pioneering a new industry through technology convergence of science technology and traditional industry.

The parallel session A will be a platform for the introduction of the 'Smart Farm' project of SK Telecom co. ltd. as the successful case of the technology convergence, the discussion about the success of other countries, and exchange of the achievements and values of the technology convergence by developed and developing countries and various innovation collaborators.

Special Session B

hosted by
Sharing and
Technologies Incorporated

Appropriate (Grassroots) Technology Innovation of Developing Countries

The parallel session B will introduce the outcomes and the cases of technology propagation of 'Sharing and Technology', which operates various projects for development and propagation of the appropriate technology in Korea. In addition, similar results and cases in Africa and Southeast Asia regions will be presented, and all participating innovation collaborators, institutions, and nations will exchange the outcomes and values realized from the experience.

The expansive discussion between developed and developing countries will be an opportunity not only to contribute in improving the social problems or the environment of developing countries but also for developed countries to recognize the needs and requests of developing countries.

UNESCO-WTA Special Session

In Celebration of 70th Anniversary of UNESCO

Achievements of UNESCO-WTA Cooperative Projects in the Past 10 Years

The year 2015 marks the 70th anniversary of UNESCO and 10 years since UNESCO and WTA began joint cooperation for the common purpose of 'providing support for building science technopolis and strengthening innovation capabilities in developing countries'. The special session was prepared for reassessing achievements of the joint cooperation to reinforce continuous cooperation between UNESCO and WTA. The progress and implementation on the initiatives of UNESCO-WTA joint cooperation (e.g. technical assistance project, pilot project, and continental workshop) of the past 10 years will be discussed during the session.

In addition, the special session will be an opportunity for spreading values of international cooperation and sustainable joint development based on science technology. The representatives of the governmental sector from Africa, Asia, and Latin America will participate in introducing the result and information on the local innovation, which was achieved through the U-W Initiatives.

The achievements of UNESCO-WTA joint cooperation of the past 10 years will be reassessed. Furthermore, all the innovation leaders, organizations, and nations will be invited to participate in constructive discussions for exploring more effective ways to implement international projects, to expand joint projects, and to spread innovation culture.

UNESCO-WTA Technical Assistance and Pilot Project * 11 Projects in 10 Countries

Mubarak Science and Technology Park, Egypt (1 st mission on July 2007 / 2 nd mission on January 2008)	Project 1	Nairobi Science and Technology Park, Kenya (July 2008)
PUSPIPTEK Science and Technology Park, Indonesia (1 st mission on February 2009 / 2 nd mission on January 2010)	Project 3	Sri Lanka Nanoscience Park, Sri Lanka (November 2010)
Science and Technology Park Development in the University of Gambia, Gambia (October 2010)	Project 5	Developing the Model of ICT High-Tech Innovation Cluster in Mongolia, Mongolia (1 st mission on April 2011 / 2 nd mission on November 2011)
Costa Rica National Science Park, Costa Rica (June 2011)	Project 7	Pakistan National Science and Technology Park, Pakistan (January 2012)
Techno-Ecological Park (TEPU) in Usme, Bogota, Colombia (February 2013)	Project 9	Sheda Science Town Complex (SHESTCO) Silicon Valley Project, Nigeria (August 2013)
Revitalization of PUSPIPTEK towards ISTP, Indonesia (October 2013)	Project 11	

UNESCO-WTA Initiatives

UNESCO and WTA have been working together over the last ten years based on the awareness of cooperation in science technology and sustainable development.

In April 2006, the WTA established an official relationship with UNESCO at the 174th Session of the UNESCO Executive Board. Since establishing formal partnership, WTA and UNESCO have been working together in international cooperation projects for activating exchange of knowledge and information to diminish the disparity of science technology development between developing and developed countries. In addition, we have been working together for establishing regional innovation platform through the support for developing STP: **Capacity Building, Technical Assistance and Pilot Project, and Sharing Experience.**



To support and conduct these activities, the 'UNESCO-WTA Technopolis Development Center' is launched at WTA Secretariat in Daejeon in November 2006. In addition, for the purpose of "Establishing international network and developing innovation culture that would lead the regional or national growth through innovation of science technology", UNESCO suggested WTA and Daejeon City to establish and manage a forum for the topic of innovation. In this regards, Daejeon Global Innovation Forum was established in 2014 after two years of preparations.

2015 UNESCO-WTA International Training Workshop



Theme
**Establishing the STP/
Technopolis and
Innovation Platform**

Date
22nd-25th September 2015

Venue
Daejeon Convention Center,
Daejeon,
Republic of Korea

World Technopolis Association and UNESCO acknowledged a disparity in the development of science technology between developing and developed countries, and recognized a need for establishing innovation infrastructure in developing countries. Therefore, we established a formal partnership and pursued joint cooperation projects since 2006. Under the common purpose to achieve the 'regional innovation and sustainable growth based on science technology', both organizations are working on projects to provide support for building STP/Technopolis and establishing governance in developing countries.

UNESCO-WTA International Training Workshop is intended for public officials, professors, NGO representatives, and researchers working in the field of science and technology policy in developing countries. The main purpose of the workshop is to provide information on the development and operation of STP/Technopolis, establishment of innovation cluster, management of local innovation system, and strengthening capacity building. U-W Workshop, with connection to the technical assistance projects, is considered as a great contribution to the development and spread of STP/Technopolis in developing countries.

Theme : Establishing the STP/Technopolis and Innovation Platform

Success in economic growth and employment creation based on science technology is depended on the methods to discover innovation resources and to integrate innovation resources with the industry.

Regional Innovation Platform is a device (or strategy) that could reinforce a support mechanism that connects the innovation resources with the industry activity. As the policy measures that can include main activities of regional innovation platform, the effectiveness of STP has been proven through the successful experience of developed countries.

In the 2015 workshop, an in-depth discussion on 'the role of STP/Technopolis as the regional innovation platform and its development strategy' will be conducted. The workshop will be an opportunity to provide strategic implications for regions that are already operating existing STP/Technopolis and for regions that want to newly build STP/Technopolis.



Session 1

Establishment of Innovation Ecosystem in Regional Innovation Platform

Discussion of the concept and characteristics for establishing innovation ecosystem. Review of a plan for promotion of research development, industrialization, and activation of local advanced industry through the innovation platform.

Discussion of applicable measures to employ STP as a platform for regional innovation strategy based on science technology. Practical detailed strategy will also be discussed.

Session 2

Network for Active Academia-Industry-Government Collaboration in STP and Technopolis

Introduction of strategy for promoting start-ups and small but strong business that will actively encourage spin-offs and start-ups from university and research institution. Consideration of the establishment of cooperative network among STP, university, research institutes, and companies in the perspective of development of small and medium enterprises and capacity building of university through the activation of industry-university cooperation. Proposal of important role and main function of STP participating organizations for establishing cooperative governance.

Session 3

Best Practice & Country Presentation

Trainees participating in the workshop will have a chance to present their case of the development and management of STP. This session is able to proceed in two parts. After the best practices are introduced, the country presentations will be followed in progress.

- Best Practice : Successful international cases (4-5 cases) that contributed in developing high-tech business and creating employment through successful STP management will be introduced.
- Country Presentation : Cases or plans of local areas that currently operates or plans to develop STP will be introduced. An opportunity to receive advice from experts is prepared. It will be an open discussion forum for all workshop participants.

The 12th WTA Daejeon Hi-Tech Fair & Business Conference

WTA Daejeon Hi-Tech Fair is the international technical fair that it is to provide high-tech sector's active exchange and cooperation between WTA members(47 countries and 95 cities / organizations) to promote mutual economic benefits. Since 1999 when the first event started, we promoted technology exchange and cooperation between WTA members and supported the export markets for the exhibitors. Through the WTA Daejeon Hi-tech Fair, the member cities are easy to access cutting-edge technology information and exhibitors may increase the local industrial competitiveness through mutual investment agreement and technology transfer.



Theme Sharing Innovation's Benefits of Academia-Industry Collaboration

Date 23rd-24th September 2015

Venue Daejeon Convention Center (DCC), Daejeon, Republic of Korea

Hosted by Daejeon Metropolitan City

Organized by WTA, Daejeon Technopark, Chungnam National University-LINC (Leaders in Industry-University Cooperation)

12th WTA Daejeon Hi-Tech Fair & Business Conference is consist of technology exhibits, technology presentations, business meetings, and other side-events. This year, under the theme of 'Sharing Innovation's Benefits of Industry-Academia Collaboration', diverse innovation leaders including enterprises, professors, researchers and students are participating to show a variety of results about ideas for technology development, startup items, high-tech products, and technology exhibition. In addition, prearranged B2B meetings, business consulting for small and medium enterprises, investment briefing, and other side-events will also be held along with the exhibition.

Main Program

Technology Exhibition	WTA Member's Zone Techno Park Zone Cultural Industry Zone (conjunction in 2015 Hi-Tech Cultural Industry Fair) Special exhibit in commemoration of the 70 th anniversary of UNESCO	Industry-Academia Collaboration Zone
Business Meeting	Prearranged 1:1 Business Meeting *Detailed schedule of the buyer invitation program will be announced later	
Idea Action Market	Business ideas and Capstone Design Auction Market *Detailed schedule will be announced later	
Investment Briefing	Daejeon strategic industries in IT / biotechnology companies investment seminar *5 companies in IT / 5 companies in biotechnology scheduled to take part	
Business consulting for SMEs	Business consulting for small and medium enterprises	
Outdoor Event	Prototype Works ' Fab Truck ' In association with Daejeon Center for Creative Economy & Innovation - SK	

The 2nd International Nano Industrial City Forum

Sharing Nano-Technology R&D Achievements

*Grenoble(France), Tsukuba(Japan), Dresden(Germany), Daejeon(Republic of Korea)

Date Sep. 23rd[Wed]-24th[Thu], 2015 **Venue** 2F Grand Ballroom, Daejeon Convention Center (DCC)

Organizer National Nano Fab Center

The International Nano-Industrial City Forum, biannual event, will be secondly held in this year that organized by Daejeon Metropolitan City. Importance of taking preoccupation in Nano Convergence Industry has been arising, mankind eagerly anticipate having standardized international conference. Consequently Daejeon Metropolitan City successfully organized "The 1st International Nano-Industry City Forum" in 2013, following the policy on fostering science and technology. With success of the event, the strong connection to keep continuous international network among officers, entrepreneurs and researchers of industry, academia and research field from 4 major Nano-industrial cities to attain co-development. The delegates can share the knowledge of Nano-Industry development current state and accomplishment of research and industrialization in each country.

This event became competent venue in Nano-industrial field throughout interchanging ideas of policy, technology and business. This year's event, "The 2nd International Nano-Industrial City Forum", will be a place to discuss the importance on sharing academia knowledge and accomplishment on study with representatives from research institutes of 4 cities.

ICISTS-KAIST Open Lecture

Integration of Science, Technology and Society (tentative)

Date Sep. 24th[Thu], 2015

Venue 3F Conference Hall, Daejeon Convention Center(DCC), Daejeon, Republic of Korea **Organizer** ICISTS-KAIST

ICISTS (International Conference for the Integration of Science, Technology and Society) is a non-profit organization led by KAIST(Korea Advanced Institute of Science and Technology) undergraduates, who are dedicated to promoting the idea of a science- and technology-integrated society through international cooperation of college students from diverse backgrounds. It has annually hosted ICISTS-KAIST, the largest student-organized, interdisciplinary conference in Asia. Invited speakers, approved adept in their professions are scholars, CEO's and artists, enrich the conference by offering keynotes in varied perspectives.

In association with WTA events, ICISTS-KAIST will provide an open lecture on the theme of integration of science, technology and society. Updated information of speakers and topics will be informed at the website of Daejeon Global Innovation Forum.

Post Tour

Date Sep. 25th[Fri] 2015

- Technical Tour: Site visit to Daejeon Technopark and research institutes in Daedeok Innopolis

- Daejeon City Tour: Experience the modern and traditional culture in Daejeon

* Clarification of your participation to post tour mandatory when you make on-line registration.