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Future Vision of Symbiotic Life TECH

- Vision Image
- Vision Statement
Symbiotic Life Science & Technology

Symbiotic Living through Whole Lifetime ©
Vision Statement

Unprecedentedly, possibilities for extending life span, enhancing and degenerating human life quality, have been increasing continuously and dramatically.

Due to aftereffects of long industrialization, progress of democratic society and a technological take-off, ecological systems surrounding and interacting with human have been changing in fundamental ways.

Therefore, it is time to reestablish more symbiotic relationship for robust future. The natural ecosystem that supports and influences human life has been dramatically changing.

The concerns over the global ecosystem, arising from energy depletion and contamination have expanded over the universal ecosystem, and are now giving rise to an innovative lifestyle in harmony with the natural ecosystem in everyday life.

The social ecosystem that protects and measures human dignity has been dramatically changing. The concerns over the social ecosystem, visualized from polarization and the rich-poor gap have expanded into general civic society, and are now generating the necessity of an innovative lifestyle in harmony with the social ecosystem in everyday life.

The technological ecosystem that drives social development has been dramatically changing. The concerns over the technology ecosystem, arising from industrial change and unemployment tension have expanded into general daily lives of all people, and are now leading to an innovative lifestyle in harmony with the technological ecosystem in everyday life.

Consistent human desires for securing of the quality of life, human dignity and robust development and these changes in the natural, social and technological ecosystem, induce lifestyles which are completely different from the previous age, and cause humans to take on new challenges for adjustment and innovation.

Now, there will be ground-breaking changes in everyday life factors most closely related to life, such as human nurturing and caring methods, food, clothing, life commodities, and life space. The evolving lifestyle patterns are expected to dramatically change and cause a huge life revolution. Furthermore, humans will experience dynamic changes throughout every realm, in the social, natural and technological ecosystem as they are born, grow, get old and return to nature.

Accordingly, a new knowledge base is required, helping humans to adjust to such changes wisely and opening a bright future for them. Symbiotic Life Science & Technology has its significance as a knowledge base for innovative lifestyles, connecting the integrative science and technology, in enhancing life values, through interactive acts closely related to human life.
Strategy 1.

Hub for Upcoming Knowledge Generation

- Statement
- Action 1. International Conference on Symbiotic Life Science & Technology
Statement

In a rapidly-changing society where yesterday’s knowledge is already obsolete, there is a need to create a forum for interchange which serves as a lens for a new understanding and knowledge. This is not limited to collecting academic knowledge, but also interacting with global experts who have insight in pursuing change and preparing for the future, by sharing the power of knowledge, we need to create a hub which can reflect and open up the future at this generation’s pace.

Changes in Knowledge and Technology

Changes in modern society require a new knowledge system and practical creative competency. In many academic areas, the necessary knowledge is changing rapidly to the extent that the literature and research of yesterday are not useful today. The living environment and life itself are changing as new technology, products, and services are combined together in diverse ways, and reality and the digital world are converging. Cutting-edge technology such as nano-technology, biotechnology, information technology, cognitive science, and synthetic biology will lead the future industry and bring about a life revolution.

Revolution in Lifestyle

Digital technology and new services are permeating this era and changing the thoughts and behavior of people, expanding the power and rights of normal consumers, accelerating the demands of the consumer, and expanding the breadth of perception and experience. Together with a concern that past ways of life may be considered boring and disappear from memory completely, the essence of the quality of human life and the methods to pursue it are changing greatly.

Necessity for a New Knowledge Basis

The ability to adapt to this new reality and the propulsion to change originates from and is sustained by theoretical discernment. If we cannot conceptualize and construct a theoretical structure for the items needed for the phenomenon and changes which are intricately interlinked and moving dynamically, we can lose our sense of direction in many things that we do and lose consistency. For a healthy future, theoretical discernment is needed more than ever as there will be numerous problems to solve that will call on composite knowledge, deep insight, and sound ethics.

Symbiosis as a New Knowledge Basis

As people navigating a new economic ecosystem and aiming to find a delicate lifestyle balance, as living organisms, and as objects which can converge with technology, today we stand as human beings sucked into a life revolution proposing something entirely different from what we have known. There is now a need for a knowledge foundation which will provide new insight into how to pursue the quality of life desired for our present and our future within the frame of a relationship with our surrounding ecosystem. The ‘symbiotic life between nature·society·technology’ surrounding humans can yield infinite benefits but also restrict our lives; a new knowledge foundation is necessary to drive us to lead a healthy coexisting lifestyle.
**Action 1.**
International Conference on Symbiotic Life Science & Technology

### Oct. 7일 (Tue)
Preconference

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:30</td>
<td>[Intensive Workshop] Future Prediction Research Methodology</td>
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<tr>
<td>10:00</td>
<td>[Opening] Main Conference of SL Science &amp; Technology</td>
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<tr>
<td>10:30</td>
<td>[Plenary 1] Symbiotic Living with Ecology of Nature</td>
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<tr>
<td>11:00</td>
<td>- Keynote: Hazel Henderson</td>
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<tr>
<td></td>
<td>- Speech 1: Ricardo Garcia Mira</td>
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<td>- Speech 2: Andrew Seidel</td>
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<td>- Speech 3: Youngsook Park</td>
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<tr>
<td>12:00</td>
<td>[Symposium] Big Leap for the Future: HE and Lifestyle Innovation</td>
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<tr>
<td>13:00</td>
<td>[College of Human Ecology 50th Anniversary Ceremony]</td>
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<tr>
<td></td>
<td>- Dean’s Welcome Address</td>
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<td>- Chancellor’s Speech</td>
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<td>- Vision Declaration</td>
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<tr>
<td>15:00</td>
<td>[Grand Forum] Global Educational Model for First Movers</td>
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<td></td>
<td>- Speech 1: Jose Cordeiro</td>
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<td>- Speech 2: Ib On Zugasti</td>
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<td>- Speech 3: Thomas Frey</td>
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<tr>
<td>17:30</td>
<td>[Discussions] Future Direction of HE for Symbiotic Living</td>
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### Oct. 8 (Wed)
Main Conference

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<th>Time</th>
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<tr>
<td>09:30</td>
<td>[Symposium] Big Leap for the Future: HE and Lifestyle Innovation</td>
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<tr>
<td>10:00</td>
<td>[Plenary 2] Symbiotic Living with Ecology of Society</td>
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<tr>
<td></td>
<td>- Keynote: Young Lee</td>
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<td></td>
<td>- Speech 1: Donna Mertens</td>
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<td>- Speech 2: Ib On Zugasti</td>
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<td>- Speech 3: Youngwha Kee</td>
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<tr>
<td>15:00</td>
<td>[Event] Global Educational Model for First Movers</td>
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<td>- Speech 1: Jose Cordeiro</td>
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<td>- Speech 2: Ib On Zugasti</td>
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<td>- Speech 3: Thomas Frey</td>
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### Oct. 9 (Thu)
Theme Tour

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<tbody>
<tr>
<td>09:30</td>
<td>[Opening] Grand Round Table Discussion of Professional Leaders</td>
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<tr>
<td>10:00</td>
<td>[Session 1] Evolution of Symbiosis for Environmental Sustainability</td>
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<tr>
<td></td>
<td>- Speech 1: David Richardson</td>
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<td>- Speech 2: Andrew Seidel</td>
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<td>- Speech 3: Ricardo Garcia Mira</td>
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<td>- Speech 4: Ib On Zugasti</td>
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<tr>
<td>15:00</td>
<td>[Session 2] Evolution of Symbiosis for Social Justice &amp; Sustainability</td>
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<tr>
<td></td>
<td>- Speech 1: Donna Mertens</td>
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<td>- Speech 2: Kaysoon Chang</td>
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<td>- Speech 3: Marco Mastroianni</td>
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<td>- Speech 4: Yeunsook Lee</td>
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<tr>
<td>16:30</td>
<td>[Session 3] Evolution of Symbiosis for Technological Sustainability</td>
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<td>- Speech 1: Thomas Scruggs</td>
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<td></td>
<td>- Speech 2: Jose Cordeiro</td>
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<td>- Speech 3: Sirrka Heinonen</td>
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### Oct. 10 (Fri)
Main Conference

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<tr>
<td>09:30</td>
<td>[Opening] Main Conference of SL Science &amp; Technology</td>
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<tr>
<td>10:00</td>
<td>[Plenary 3] Symbiotic Living with Ecology of Technology</td>
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<tr>
<td></td>
<td>- Keynote: Jinbae Park</td>
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<td></td>
<td>- Speech 1: Jose Cordeiro</td>
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<td>- Speech 2: Sirrka Heinonen</td>
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<td>- Speech 3: Eui-Chul Jung</td>
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<tr>
<td>15:00</td>
<td>[Conclusion] Future Directions for SL Science &amp; Technology</td>
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<tr>
<td>16:30</td>
<td>[Grand Forum] Global Educational Model for First Movers</td>
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<td>- Speech 1: Jose Cordeiro</td>
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<td>- Speech 2: Ib On Zugasti</td>
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<td>- Speech 3: Thomas Frey</td>
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## Oct. 7 (Tuesday), 2014 Schedule

### Symposium in the memory of the 50th Anniversary of College of Human Ecology

**A Big Leap Toward Holistic Renovation for Future**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
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| **15 : 20** | **[Opening & Keynotes]** | **Human Ecology and Lifestyle Innovation in the ICT Revolution Age**  
Master: Hyunsoo Lee Ph.D., Vice-director, the Institute of Symbiotic Life-TECH |
| 15 : 20 | Opening Address | Why Holistic Renovations at This Time?  
Yeunsook Lee Ph.D., Professor, Director,  
The Institute of Symbiotic Life-TECH, Yonsei University |
| 15 : 35 | Keynote Speech | Human Ecology for the 21st Century: Leading to Solve Big Problems for Real People  
Soyeon Shim, Ph.D., Dean of the College of Human Ecology  
University of Wisconsin-Madison, USA |
| 16 : 10 | Remote Speech 1 | Paradigm Shift for Symbiotic Living & Genuine Quality of Life  
Hazel Henderson, Ph.D., Author, Producer  
Ethical Markets TV, USA |
| 16 : 20 | Remote Speech 2 | Ecology and Public Health  
Roderick Lawrence, Ph.D., Professor  
University of Geneva, Switzerland |
| **16 : 30** | **[Grand Forum]** | **Global Educational Model for First Movers and Entrepreneurship**  
Moderator: Jongsook Chun, Ph.D., Center for Textile & Fashion Research |
| 16 : 35 | Speech 1 | 「High-tech Fusion Model of Singularity University」by NASA & Google  
Jose Cordeiro, MBA, Ph.D., Professor  
Singularity University, Silliconvalley, USA |
| 16 : 50 | Speech 2 | 「Practicality Model of Mondragon University」by Mondragon Group  
Ibon Zugasti, Director, Partner  
Ibon Zugasti, Director of PROSPEKTIKER, Mondragon Co., Basque Country, Spain |
| 17 : 05 | Remote Speech 3 | 「Entrepreneurship Model of Micro-College」by DaVinchi Institute  
Thomas Frey, Ph.D., Director  
DaVinchi Institute, Denver, USA |
| 17 : 20 | Discussion, Conclusion & Closing | |

**Venue:** Centennial Hall, Yonsei University, Seoul Korea  
**Planned by:** Institute of Symbiotic Life Science & Technology, Yonsei University  
**Co-org. by:** SLST, College of Human Ecology, Yonsei University, Seoul Korea  

*speaker schedules are subject to change in case of emergent situations*
Oct. 7 (Tuesday), 2014 Program Introduction

**Symposium in the memory of the 50th Anniversary of College of Human Ecology**

**A Big Leap Toward Holistic Renovation for Future**

### Brief Introduction of Opening & Keynote

We have been sucking into the Age of Information long after agricultural revolution and industrial revolution in unimaginable speed. Numerous disciplines which have been created to enhance human dignity and life quality are facing to the new and brave challenge in the middle of cloudy situation of its identity, survival and its direction. Human ecology which launched by connecting science and human living in the early industrial age will forecast its future as a leading symbiotic discipline of lifestyle innovation with surrounding ecologies to promise better and more robust future.

### Brief Introduction of Grand Forum

As the disruptive forces of the Internet bear down on colleges and universities, everyone is beginning to feel the leading winds of this impending storm, but few have a clear view of the changes to come. Because education reform is believed to be necessary for all educational institutions, it is worthy and timely to share some of leading models which embrace the important quality of future education. Here, to be stimulated, three models which have concepts that Human Ecology emphasizes are introduced.

**「High-tech Fusion Model」 Singularity University by NASA & Google**

Singularity University is a new interdisciplinary university whose mission is to “assemble, educate and inspire a cadre of leaders who strive to understand and facilitate the development of exponentially advancing technologies in order to address humanity’s grand challenges.” With the support of a broad range of leaders in academia, business, and government, Singularity University hopes to stimulate groundbreaking, disruptive thinking and solutions aimed at solving some of the planet’s most pressing challenges. Being located at the NASA Ames campus in Silicon Valley, California, it is a benefit corporation that provides educational programs, innovative partnerships and a startup accelerator to help individuals, businesses, institutions, investors, NGOs and governments understand cutting-edge technologies, and how to utilize these technologies to positively impact billions of people.

**「Practicality Model of Mondragon University」 by Mondragon Group**

Mondragon University is a cooperative university comprised of three educational cooperatives and the Basque Culinary Center. The structure of the university provides an umbrella for a robust network of support organizations. Each Faculty with a legal cooperative structure is built upon a shared project with common cooperative principles such as the priority of the work and the cooperation, democracy and solidarity. These principles are fostered through the implication of three collectives in equal participation: worker partners (owners with capital asset), collaborating partners (representatives from coop and non-coop companies) and students. As a university with a clear social vocation it focuses on building suitable employment in society through its educational model and its particular view of research, geared to the needs of business. In building a non-profit making cooperative, it promotes the students' economic capacity and self-finance by enabling them to combine study and work.

**「Entrepreneurship Model of Micro-College」 by DaVinci Institute**

The DaVinci Institute uses its own systems for forecasting the future of clients' industry and uses its own research methodology to create a vision of the future of its clients. Under the prediction of educational revolution that learning will become separated from the classroom, that courses will be created organically and formed around an on-demand, any-time, any-place delivery models, that accreditation will shift from the Institution to the course and to the individual, the DaVinci Institute launched Micro-College Model. It is a computer programmer training school, DaVinci Coders, an 11-week, beginner-based training in Ruby on Rails, patterned after the successful Chicago-based school, Code Academy. Looking at the bigger picture of retraining for this and many other professions, knowing that people will be rebooting their careers far more often in the future, with time being such a precious commodity, that the institute created the leanest possible educational model for jobs in the future.
Professor Lee has played the role of Design Advocate and Meta designer to propagate new standards and principles for "Good Design" by actively developing theories and researching on the creation of future-oriented spaces and carrying out actual projects. As presidents of many academic societies such as Asia Interior Design Institute Association, and Korea Institute of Interior Design, Korea Institute of Ecological Architecture and Environment, Korea Gerontology Society, she has introduced new thought systems and their practical possibilities. She has carried research projects of over 25 million USD including Gov. R&D during current 10 years.

Yeunsook Lee, a professor of Interior Architecture & Built Environment, having B.S and M.S from Yonsei University, and Ph.D. from Oklahoma State University, has been serving for over 30 years. As a member of the Presidential Commission for the New Millennium of ROK in 2000, she organized "the World Congress on Environmental Design for the New Millennium" as the nation’s visioning projects, and collectively introduced future environmental design paradigms such as Universal Design, Green Design, Culture Design, Social Design and Pro-Digital Design. Since then, she has carried out many international conferences and symposia on future paradigms.

Professor Lee published more than 50 books including "Quality of Life and Environmental Design", "Koreans’ Life and Future Housing", and “Aging friendly Design Innovation”, “Aging friendly Technology for Health and Independence". She has published over 200 academic papers and presented over 500 presentations, and carried out design development projects for children, woman, elderly, youth and community. She developed major “Future Houses” for leading companies and 21st childcare center for Samsung Welfare Foundation. She also organized strategic exhibitions to disseminate new paradigms on Universal Design, Aging Friendly Design and Socially Integrated Design, including a major largest one of this kind ‘Universal Design: the Good Design in the Era of Diversity’ invited by Seoul Art Gallery.

Currently, she has devoted herself in several multidisciplinary projects such as Government R&D project “Socially Integrated Community Regeneration”, “Customized Urban Regeneration Based on Residents’ Empowerment”, “Housing Welfare System” and “Healthy Environment for Aging Population” which require collaborative and transdisciplinary approaches fabricating needs of diverse stakeholders. Her experience including education, research, practice and other diverse activities has supported her enthusiasm toward experimental education for future generation.

Professor Lee will be giving an opening address “Why Holistic Renovation at This Time” on Oct. 7, and a special speech on “Socially Integrated Community, Housing Welfare and Universal Design in Korea” in Oct. 10, 2014, introducing outcomes of current national R&D projects and social trends.
Dr. Soyeon Shim, the Dean of the School of Human Ecology (SoHE) at the University of Wisconsin, Madison, is an enthusiastic educator & administrator who has been stimulating and implementing creative challenges for advancing higher education. In her previous role as the director of the Norton School of Family and Consumer Sciences at the UA, she led a $25 million capital campaign to build a new facility for the School, and she also raised more than $30 million to create an endowment fund. During her tenure at the UA, she established several named centers and institutes in partnership with private sectors and individual donors.

Dr. Shim obtained B.S. and M.S. from the College of Human Ecology at Yonsei University, followed by a Ph.D. from the University of Tennessee, Knoxville. After a short stint as an assistant professor at Colorado State University, she was recruited to the University of Arizona, where she spent 22 years. Dr. Shim has received numerous teaching, research, development, and leadership awards, both at the university and state/national level. She has won competitive grants totaling more than $1.5 million from federal agencies and private foundations for her major research. She has authored or co-authored over 100 scholarly articles in refereed journals, including *Journal of Public Policy & Marketing*, *Journal of Economic Psychology*, and *Family Relations*.

Focuses on consumer decision-making, Dr. Shim launched APLUS, a major longitudinal study monitoring young adults’ formation of financial attitudes and behaviors. Her longitudinal study, APLUS, which is the first of its kind, has gained national recognition from the President’s Council of Financial Capability, the US. Treasury Office, and several national news outlets, including the Wall Street Journal, USA Today, the Chronicle of Higher Education, and CNN.

During her short tenure at UW-Madison, she has initiated a school-wide strategic plan to leverage the grand opening of the School’s new, $52-million-dollar Nancy Nicholas Hall and the School’s considerable human resources toward meeting the needs of the 21st century. Dean Shim’s ultimate goal is to transform the SoHE into a hub for interdisciplinary research, education, and outreach at UW-Madison, nationally and globally.

On Oct. 7, 2014, she will be speaking on “Human Ecology for the 21st Century: Leading to Solve Big Problems for Real People” which is expected to stimulate professionals & students in enhancing & developing future careers more creatively. She will also join in the closing panel for conclusion of the International Conference of Oct. 8, right after 3 consecutive plenary sessions on symbiotic living for future.
Hazel Henderson, Ph.D.

Independent Futurist, Worldwide Syndicated Columnist
Advocate for Equitable & Ecologically Sustainable Human Development
Evolutionary Economist and Consultant on Socially Responsible Business
Author of award-winning book, "Ethical Markets: Growing the Green Economy"
Member of Advisory Board, UN Global Compact’s Leadership Summit
Founder and President, Ethical Markets Media, LLC (USA and Brazil)
Executive Producer of "Ethical Markets TV", USA
Horace Albright Chair in Conservation at the University of California-Berkeley


Born in England, as an "ordinary housewife", Dr. Henderson began an extensive program of self-study in economics and other fields from leading thinkers that has enabled her to successfully challenge the views of Nobel laureates. She is an Honorary Member of the Club of Rome having many awards and listed in Who’s Who in the World, Who’s Who in Business and Finance and Who’s Who in Science and Technology. She shared the 1996 Global Citizen Award with Nobelist A. Perez Esquivel of Argentina. She was honored as one of the “Top 100 Thought Leaders in Trustworthy Business Behavior”. She founded Ethical Markets Media in 2004, now a Certified B Corporation, and the EthicMark® Awards for advertising that uplifts the human spirit and future potentials.

Raising questions of existing reality, she has challenged us to develop more robust ways to shape our world based on love and human nature. Her ideal is to be a whole human being. She believes only humans envisage a better, more valuable future and make efforts toward its realization, insisting that to believe in the future is to believe in humanity. She asserted also that a profound change in the life of a single individual could change the direction of an entire society, especially shedding light on the special talents of women as harmonizers and communicators. Henderson believes that the various threats to peace, community security, and good environment have led us into a new era in which we are obliged to look for values, information, and know-how.

In 2009, Henderson launched the Green Transition Scoreboard®, tracking private investments worldwide since 2007 – currently at $5.3 trillion. EthicalMarkets.tv showcases video of people and organizations around the world with socially responsible endeavors. Active in diffusing paradigms she launched the Ethical Markets Quality of Life Indicators, originally co-developed in 2000 with Calvert, focusing on green business, green energy, environmentally friendly technology, good corporate citizenship and sustainable development.

On Oct. 7, she will deliver remote speeches about "Paradigm Shift for Symbiotic Living & Genuine Quality of Life" and on Oct. 8, about "Green Practice: Concept, Strategies & Implementation" which will lead to a sustainable lifestyle revolution in the future.
**Roderick Lawrence, Ph.D.**

Professor, Head of Human Ecology, University of Geneva, Switzerland  
Adjunct Professor, National University of Malaysia  
Director of Certificate of Advanced Studies in Sustainable Development  
Director of Global Environmental Policy Program

Dr. Roderick Lawrence is a dedicated researcher, scientist and rigorous educator with strong philosophy and ethical values. He is a leading advocate of human ecological perspective, and importance of home and sustainable communities in pursuing genuine quality of life. He has developed theories, implemented numerous research projects, and developed robust policy with government & EU. He has stimulated transdisciplinary research and practice to enhance both academic and real world capacity in solving various problems.

Having B.A. with first class honors from University of Adelaide, Australia and M.Litt. from University of Cambridge, England, he earned Doctorate of Science from the Swiss Federal Institute of Technology in Lausanne, Switzerland. He has been very active in a wide range of academic and scientific committees. He has been nominated to the Scientific Advisory Board, and invited Member of Task-force "Housing and Health" by the WHO. He was Chairperson of the Scientific Evaluation Committee of the WHO Healthy Cities project, and also invited expert for the "Expert Evaluators Panel for Exploratory Awards and Co-operative Research", "Quality of Life and Management of Living Resources” by the European Commission.

He has published many books and articles in leading international journals. The major works include *Sustainable urban ecosystems and quality of life*, *Futures of transdisciplinarity*, *The meaning and use of home, housing, health and well-being*, *Housing, Dwellings and Homes*, *Urban areas in the context of human ecology, Human ecology and its applications for sustainability research, and implementation*. He has also published various book reviews in peer reviewed journals such as *Families in Former Times, Housing without Houses, and New Households, New Housing*. He was invited to write a chapter for the Encyclopedia of Life Support Systems on interdisciplinary contributions about human ecology and for Management of Social Transformations which is a research program that strengthens links between social science research and policy decision making.

Based on his various experience in utilizing human ecological perspective from home of micro-world and society of the macro-world, he is concentrating on developing theories and strategies and linking them to current education and policy to reduce the gap between academy and real world. His current interest area is “health, quality of life and surrounding environment” ranging from healthy home, community, and to healthy city.

On Oct. 7, 2014, he will be delivering his idea via video on “Ecology Public Health.” He will also give a special video presentation on “Sustainable Urban Development”, on Oct. 10, 2014.
Oct. 7 Special Speech

José Luis Cordeiro, MBA, Ph.D.

Founding Faculty at Singularity University, Silicon Valley, USA.
Vice-president, Humanity+
Founder of the World Future Society Venezuela Chapter
Chair of the Venezuelan Node of the Millennium Project,
Board advisor, the Brain Preservation Foundation
Board advisor, Center for Responsible Nanotechnology

As a leading scientist, futurist, economist, engineer and columnist, consultant, writer, researcher, professor, José Cordeiro, has lectured at many institutions, from MIT in the USA and Sophia University in Japan to and the Central University of Venezuela. Based on his extensive work in technological foresight, futures studies, globalization, economic integration, long-term development, energy, education and monetary policy, he has authored and coauthored many books. He has been appeared in major medias in many countries including ABC, BBC, CNN, Chosun Ilbo, The New York Times, Univision and The Washington Times. He has also filmed documentaries with Discovery Channel and the History Channel.

Having B.S in mechanical engineering from MIT, economics of Georgetown University, and Master degree from MIT and INSEAD, France, he had Ph.D. in interdisciplinary science from university L’mon Boliviar. He founded the World Future Society Venezuela Chapter, and cofounded the Venezuelan Transhumanist Association. He has been a board advisor to the Brain Preservation Foundation and Center for Responsible Nanotechnology and members of the Foresight Education and Research Network, and the Club of Rome.

He has been writing as an author and coauthor on following titles; Strategies and Technologies for a Sustainable, Innovation and Creativity in a Complex World, Seeing the Future Through New Eyes, Creating Global Strategies for Humanity’s Future, and etc. His lecture topic includes "moving from dirty energy to clean energy", Synthetic biology, The surprising future of technological convergence - “Nano-Bio-Info-Cogno”, Changing the meaning of humanity: prospects for indefinite healthy lifespans, artificial brains, and sentient robots.

As a faculty of Singularity University whose mission is to assemble, educate and inspire a cadre of leaders who strive to understand and facilitate development of exponentially advancing technologies to address humanity’s grand challenges, he has stimulated groundbreaking, disruptive thinking and solutions aimed at solving some of the planet’s most pressing challenges. Besides, as a vice-president of Humanity+ which is dedicated to elevating the human condition, he advocates the ethical use of technology to enhance human capacities.

Dr. Cordeiro will give a speech about “Hightech Fusion Model, Singularity University by NASA & Google” which was established to provide a venue to improve the world, billions of people at a time on Oct. 7, 2014, and another speech about “What has developed and will come soon, accelerating drastic ICT Revolution Age” on Oct. 8, 2014 which will give a comprehensive insights into the humanity and lifestyle of the future.
Mr. Ibon Zugasti has led consultancy and research projects since 1999 in fields of foresight, regional sustainable development, labour & training and energy for different governments and corporations including Mondragon. He has also advised the Committee of the Regions of the EU. He has been a coauthor of diverse forecasting publications such as *Latin America 2030, Economic and social consequences for Basque Government*. He has also contributed to the yearly publication *State of the Future* by the Millennium Project.

He earned his Bachelor of Arts in Business Administration from both the University of Deusto, Spain and Marquette University, USA, and earned his Master's in Strategic Management from University of Deusto. He has been teaching strategic management at the University and lecturing foresight in many seminars at the international level. Since 2010, he has been the President of the European Regional Foresight College.

As the director of *Prospektiker*, founded in 1987, he has led numerous strategic projects for the public and private sector. His institute has explored the possible futures, under basic assumptions: "The future is not predetermined". "The future is being constructed. Liberty of choice and action will not exist without a proactive attitude", which is subject to high levels of uncertainty and risk. What he believes and does in order to avoid limiting future choices, means and resources, is developing optimal solutions, using strategic foresight as a working methodology.

Since *LKS Prospektiker* joined the *Mondragon Group* in 2006 to have a more synergistic effects, lots of progress have been shown toward long-term education, training, innovation, technological development, internationalization of business and resource efficiency." With *LKS, Mondragon*, he conducted the *Millennium Project* using a Real-Time Delphi method to explore the future of cooperatives and other business approaches. It identified key factors affecting the future of cooperatives as well as the probable future developments for these factors. Through this, cooperatives movement is found as a significant option for developing economies to help reduce the rich-poor gap, and enhance the level of standard living.

On Oct. 7, he will give a speech on "Practicality Model, Mondragon University by Mondragon Group " which is itself a cooperative, and another one on Oct. 8, "Sharing Community & Cooperatives as a Symbiotic Social Economy System" which is expected to stimulate creative entrepreneurship to universities, business sectors, government & students of the future leaders in responding to fast coming future.
Thomas Frey, Ph.D.

Senior Futurist and Professional Keynote Speaker
Google’s Top Rated Futurist Speaker
Executive Director of the DaVinci Institute
Author, "Communicating with the Future" (2011)

Thomas Frey is a powerful visionary who is revolutionizing our thinking about the future. His keynote talks on futurist topics have captivated people ranging from high level government officials to executives in Fortune 500 companies including NASA, IBM, AT&T, Hewlett-Packard, Lucent Technologies, First Data, Boeing, Capital One, Bell Canada, Visa, Ford Motor Company and many. He has been called as “Father of Invention” and “Dean of Futurists.” He has lectured on future of business, city, university, library, agriculture, food, entertainment, women, housing, individuality and many others.

Tom spent 15 years at IBM as an engineer and designer where he received over 270 awards, more than any other IBM engineer. He has been a member of the Triple Nine Society (High I.Q. society over 99.9 percentile). Thomas has been featured in hundreds of articles for both national and international publications including New York Times, Huffington Post, USA Today, US News and World Report, and many more. He currently writes a weekly “Future Trend Report” newsletter and a weekly column for FuturistSpeaker.com.

Over the past decade, Thomas Frey has built an enormous following around the world based on his ability to develop accurate visions of the future and describe the opportunities ahead. Having started seventeen businesses himself and assisting on the development of hundreds more, the understanding he brings to his audiences is a rare blend of reality-based thinking coupled with a clear-headed visualization of the world ahead. Besides, advances in technology, his expertise cover governance, system changes, evolving attitudes and human conditions, and much more. He believes the chaotic nature of interconnecting trends, and economic uncertainties create great opportunities for those who can spot them,

He currently initiated an educational entrepreneurship, Micro-colleges which are any form of concentrated post-secondary education oriented around the minimum entry point into a particular profession, for people to explore new career for future. He is seeing a massive new opportunity arising for short-term, pre-apprenticeship training.

On Oct. 7, 2014 he will give a speech for educational renovation, introducing "An Entrepreneurship Model, Micro-College" of DaVinci Institute. On the 3rd of Nov. 2014 will give a special customized lecture on "Lifestyle Revolution in Future" covering what to eat, what to wear, what to use, where to live, how to nurture & care, and will give another special intensive workshop on "DaVinci Coders" which will connect existing majors to leap into a promising future profession.
Oct. 8 (Wednesday), 2014. Schedule

International Conference in the memory of the 50th Anniversary of College of Human Ecology

Symbiotic Living with Ecology of Nature · Society & Technology

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Moderator(s)</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Opening</td>
<td>Master: Hyunsoo Lee, Ph.D.</td>
</tr>
<tr>
<td>09:40</td>
<td>Opening Address</td>
<td>Yeuinsook Lee Ph.D., Director, Institute of Symbiotic Life TECH, Yonsei Univ.</td>
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<tr>
<td>09:50</td>
<td>Welcoming Message</td>
<td>Ae-Ran Koh Ph.D., Dean, College of Human Ecology, Yonsei Univ.</td>
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<tr>
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<tbody>
<tr>
<td>10:00</td>
<td>Plenary 1. Symbiotic Living with Ecology of Nature</td>
<td>Minkyung Ha, Ph.D.</td>
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<tr>
<td>10:00</td>
<td>Remote Keynote</td>
<td>Hazel Henderson, Ph.D., Author, Producer Ethical Markets TV, USA.</td>
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<tr>
<td>10:25</td>
<td>Speech 1: Symbiotic Living with the City: Structuring the Space according to the Way of Travel</td>
<td>Ricardo Garcia Mira, Ph.D., Professor, University of Coruña, Spain</td>
</tr>
<tr>
<td>10:50</td>
<td>Speech 2: Architecture and Built Environment as an Intervention for Symbiotic Living</td>
<td>Andrew Seidel, Ph.D., Professor, University of Northern British Columbia, Canada</td>
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<tr>
<td>11:15</td>
<td>Speech 3: Global Application and its Diversity of Green Paradigm for Symbiotic Living</td>
<td>Youngsook Park, CEO, UN Future Forum, Korea</td>
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<tr>
<td>11:40</td>
<td>Q &amp; A</td>
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<td>12:00</td>
<td>Lunch</td>
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<th>Time</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Plenary 2. Symbiotic Living with Ecology of Society</td>
<td>Kyoungja Park, Ph.D.</td>
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<tr>
<td>13:00</td>
<td>Keynote: Living in the Lowest Birthrate Society and Quality of Life: Current Policy</td>
<td>Young Lee, Ph.D., Director, Korea Institute of Child Care and Education, Professor, Yonsei Univ.</td>
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<tr>
<td>13:25</td>
<td>Speech 1: Issues for Better Future: Multi-culture, Social Justice, Gender and Ethics</td>
<td>Donna Mertens, Ph.D., Chief Editor of JMMR, Professor, Gallaudet University, USA</td>
</tr>
<tr>
<td>13:50</td>
<td>Speech 2: Sharing Community &amp; Cooperatives as a Symbiotic Social Economy System</td>
<td>Ibon Zugasti, Director of PROSPEKTIKER, Mondragon Corporation, Basque Country, Spain</td>
</tr>
<tr>
<td>14:15</td>
<td>Speech 3: Community as a Tool for Symbiotic Society</td>
<td>Youngwha Kee, Ph.D., CEO, National Institute for Lifelong Education, Professor, Soongsil Univ.</td>
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<tr>
<td>14:40</td>
<td>Q &amp; A</td>
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<td>15:10</td>
<td>Coffee Break</td>
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<tr>
<td>15:30</td>
<td>Plenary 3. Symbiotic Living with Ecology of Technology</td>
<td>Hyeyoung Kim, Ph.D.</td>
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<tr>
<td>15:30</td>
<td>Keynote: Impact of Convergence Technology on Higher Educational System</td>
<td>Jinbae Park, Ph.D., Professor and Vice-president of Yonsei University</td>
</tr>
<tr>
<td>15:55</td>
<td>Speech 1: What Has Developed and Will Come Soon: Accelerating Drastic NBIC Revolution Age</td>
<td>José Cordeiro, MBA, Ph.D., Professor, Singularity University, USA</td>
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<tr>
<td>16:20</td>
<td>Speech 2: Symbiotic Living &amp; Lifestyle Revolution with Future Technology</td>
<td>Sirkka Heinonen, Ph.D., Professor, University of Turku, Finland</td>
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<tr>
<td>16:45</td>
<td>Speech 3: Digitally Converged Apparatus &amp; Living Commodities in Korea</td>
<td>Eui-Chul Jung, Ph.D., Professor, Yonsei University</td>
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<tr>
<td>17:10</td>
<td>Q &amp; A</td>
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17:30 Conclusive Panel: Future Directions for Symbiotic Living

Venue: Centennial Hall, Yonsei University, Seoul Korea
Planned by: Institute of Symbiotic Life Science & Technology, Yonsei University
Co-org. by: The Institute of SLST, College of Human Ecology, Yonsei University, Seoul Korea

*speaker schedules are subject to change in case of emergent situations
Plenary 1. Symbiotic Living with Ecology of Nature

Moderator: Mikyoung Ha, Ph.D., Professor, Center for Future Environmental Design & Research

Remote Keynote: Green Practice: Concept, Strategies & Implementation for Sustainable Lifestyle
Hazel Henderson, Ph.D., Author, Producer Ethical Markets TV, USA.

Speech 1: Implication of Climate Change on Sustainable Lifestyle
Ricardo Garcia Mira, Ph.D., Professor, University of A Coruña, Spain

Speech 2: Architecture and Built Environment as an Intervention for Symbiotic Living
Andrew Seidel, Ph.D., Professor, University of Northern British Columbia, Canada

Speech 3: Global Application and its Diversity of Green Paradigm for Symbiotic Living
Youngsook Park, CEO, UN Future Forum, Korea

Question & Answer Session

Brief Introduction of Plenary 1.

The natural ecosystem supports human life and affects quality of life. However, the crisis of rapid change in the natural ecosystem requires innovation in human lifestyle to be symbiotic with the natural ecosystem in everyday life, as well as in thinking and production methods for all artificial products. Humans are also ecological organisms and part of Mother Nature and the space ecosystem; hence, we are at a point in time when we should consider the true meaning of life and the foundation for living.

Even though it is necessary to shed light on the every aspect of our life, this plenary is intended to look into the possibility of changing the way of thinking and practicing about sustainable lifestyle. This is also planned to broaden knowledge about how the paradigms of Symbiotic Living with ecology of nature can be reflected in creating both macro & micro environments and products. Dr. Henderson is a global leader who has pioneered the future, and through her keynote, she will provide insight on the concepts, strategies, and practices of a sustainable lifestyle. The following presentation will be by Ricardo Mira, who is environmental psychologist, and he will talk about relationship between changes in macro earth ecology and micro lifestyles. After that, professor Seidel, who has 30 years of experience as an editor of an international journal renowned for the architectural planning field, will talk about the changes in urban space environments including residential housing for a sustainable life which aims to exist symbiotically with the ecosystem. Then, President Youngsook Park will be showing a wide range of environment and products which reflect green paradigm for symbiotic living with ecology of nature.

This plenary session will provide an opportunity to comprehensively overview the various aspects of everyday life regarding knowledge foundation, creation of program, environment, and practical lifestyle where humans and the natural ecosystem, their reciprocal relationship and symbiotic existence can be understood in a better way. This experience will boost ethical responsibility regarding the natural ecosystem and entrepreneurship for creating new businesses, and will also suggest future promising businesses and directions for future education.
Oct. 8 (Wednesday), 2014. Plenary 1 Speakers

Hazel Henderson, Ph.D.
Author, Producer Ethical Markets TV, USA.
Dr. Henderson is a world specialist of the “Green Economy”, which is the terminology that she created. With renowned visionary of practical mind & action, writing numbers of books including “Ethical Markets: Growing the Green Economy”. She is very active academically and practically in diffusing paradigms and concepts as green business, green energy, environmentally friendly technology, and sustainable environment.

Ricardo Garcia Mira, Ph.D.
Professor, University of A Coruña, Spain
Dr. Mira has tremendous contributions to the analysis of predictive models of ecological behavior, environmental and sustainable local development, evaluation of the psychological impact of the current environmental disaster. He is currently the coordinator of the European Consortium LOCAW in the project “Low Carbon at Work: Modelling Agents and Organizations to achieve transition to a Low Carbon Society.

Andrew Seidel, Ph.D.
Professor, University of Northern British Columbia, Canada
Dr. Seidel, who majored in city planning at Harvard University, was a professor at Texas A&M for 22 years. He is currently focusing his research on the profession and practice of the urban planner, the urban designer, the architect and the developing systemically collected and analyzed knowledge to pursue a robust model for healthy and sustainable environment.

Youngsook Park
CEO of UN Future Forum, Korea
CEO of the UN Future Forum Korea, Ms. Park is called the “Mother of Future Korea in 2050”, completing her tasks as a public affairs officer in the British Embassy and the Director of Culture Affairs in the Australian Embassy in Korea for 30 years. She has been a Korea chair of the Millennium Project and World Future Society. Based on her global experiences and wide network with future leaders, she has been delivering speeches about future prediction through various media.
Plenary 2. Symbiotic Living with Ecology of Society

Moderator: Koungja Park, Ph.D.

Keynote
Living in Low Birthrate Society and Quality of Life: Current Policy
Young Lee, Ph.D., Director, Korea Institute of Child Care and Education
Professor, Yonsei University, Seoul, Korea

Speech1
Issues for Better Future: Multi-culture, Social Justice, Gender and Ethics
Donna Mertens, Ph.D., Chief Editor of JMMR
Professor, Gallaudet University, USA

Speech2
Sharing Community & Cooperatives as a Symbiotic Social Economy System
Ibon Zugasti, Director, Research Institute for Future Strategy “Prospektiker”
Director, Mondragon Cooperatives, Basque, Spain

Speech3
Community as a Tool for Symbiotic Society
Youngwha Key, Ph.D., CEO, National Institute for Lifelong Education
Professor, Soongsil University

Question & Answer Session

Brief Introduction of Plenary 2.

The social ecosystem, which protects the sanctity of human life and determines the value of life, is changing rapidly, and subsequent concern is requiring social innovation and lifestyle change to participate in the creation of a balanced and stable society in everyday life, as well as in thinking and production methods for all artificial products. The way of thinking, lifestyle, and view on overall society of modern people have been formed while passing through the long tunnel of industrialization. In a reality where polarization and social exclusion is increasing, there is need to review how to reestablish the above in an information network society which emphasizes the importance of social capital.

As low birthrate, female and family problems increased due to rapid demographic changes, the need for right policy to stabilize ecology of society emerged. Dr. Young Lee will give a keynote which will give an insight to understand social tensions through the introduction of life in low birth rate society and current policy. Then, Dr. Mertens will deliver a speech about innovative thinking which is important in directing the ecology of society in a robust way with positive attitude toward changing society. The following presentation will be by Zugasti, the head of the Spain Future Strategy Research Institute, to talk about community culture based on sharing and participation, the potential of cooperatives as a practical tool, and global case studies which are leading the change in social and economic ecosystems. Finally, Dr. Youngwha Kee will suggest an integrative vision to look at the ecology of society though the introduction of community which has emerged as a solving tool for global problems.

This plenary session will provide an opportunity to discuss how the lives and homes of individuals and families, and how society and urban environment can promote a balance in the social ecosystem and relieve tension. It will empower us to promote personal action and social agreement regarding various solutions including ways of producing and consuming resources in everyday life.
Plenary 2. Symbiotic Living with Ecology of Society

Young Lee, Ph.D.,
President, Korea Institute of Child Care and Education
Professor, Yonsei Univ.
Dr. Lee has been served professor of Childcare Education for over 30 years at Yonsei University. She has been shown the leadership as a president of KICCE(Korea Institute of Child Care and Education). Based on her professional and social experiences currently she serves as the director of KICCE which focuses on developing policy for Korea.

Donna Mertens, Ph.D.,
Professor, Gallaudet University, USA
Dr. Mertens evolve educational programs to practically utilize existing and newly developed theories. Leading in many energy social issue for social equity, now, she is working for social justice in global community. Based on her practical expertise in the field, she will give a presentation titled, "Issues for Better Future: Multi-Culture, Social Justice, Gender and Ethics".

Ibon Zugasti, Director
Director, Partner Mondragon Cooperatives, Basque, Spain
As a futurist, strategic planner, he carried out various consulting projects. With a vast knowledge of future society and technology, he currently is involved to create strategies for Mondragon Corporation, which developed new green environment and energy business model. His presentation will show how the symbiotic city within plant ecology with other ecological system and with external natural ecology.

Youngwha Kee, Ph.D.,
President, National Institute for Lifelong Education
The National Institute for Lifelong Education(NILLE) makes its way towards the advent of lifelong learning and the establishment of a creative, reliable and hopeful society. Dr. Key, who is a professor or Soongsil Univ. will propose diverse opportunities to enable every individual to learn throughout his or her entire life-promoting a healthy lifelong learning culture, realizing individual dreams and enhancing national development.
Plenary 3. Symbiotic Living with Ecology of Technology

Moderator: Hyeyoung Kim, Ph.D., Center for Food & Nutrition

<table>
<thead>
<tr>
<th>Keynote</th>
<th>Impact of Convergence Technology on Higher Educational System</th>
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<td>Jinbae Park, Ph.D. Professor and Vice-chancellor of Yonsei University, Seoul, Korea</td>
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<tr>
<th>Speech1</th>
<th>What Has Developed and Will Come Soon, Accelerating Drastic ICT Revolution Age</th>
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<td>José Cordeiro, MBA, Ph.D., Professor, Singularity University, Silicone Valley, USA</td>
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<td>Team Projects to Positively Change the World, Singularity University</td>
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<tr>
<th>Speech2</th>
<th>Symbiotic Living &amp; Lifestyle Revolution with Future Technology</th>
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<tr>
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<td>Sirkka Heinonen, Ph.D., Professor, University of Turku, Helsinki, Finland</td>
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<td>Future Research Center, University of Turku</td>
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<th>Speech3</th>
<th>Digitally Converged Apparatus &amp; Living Commodities in Korea</th>
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<td>Eui-Chul Jung, Ph.D., Professor, Yonsei University, Seoul Korea</td>
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Question & Answer Session

Brief Introduction of Plenary 3.

The technical ecosystem has made human life convenient and has been the driving force of social development. However, anticipation and concern are extending into all aspects of life because there are rapid changes in the technical ecosystem. It is predicted that development in technology which fundamentally enhances human functioning or supports humans will change the lives and homes of humans to an extent never seen before. Hence, there is need to actively examine the future where ‘cutting edge technology’ will be directly and indirectly an essential part of life. Furthermore, there is need to prepare and respond for an innovative lifestyle which is symbiotic with the technical ecosystem so it can be developed and utilized to enhance human sanctity.

Professor Park Jinbae has led the way in converging technology education, and through his keynote talk regarding the influence of converging technology on advanced education, he will provide insight into changes for the education system of the future. The next speaker will be Professor Cordeiro, who has lead the discussion on the prospects for future changes in humans, and participated in the founding of Singularity University in Silicon Valley by NASA and Google as an innovative education model for the future. He will talk about recent and future technologies bringing forth a revolution in technology information. Then, Professor Heinonen from the Finland Future Research Institute will talk about strategies for symbiotic living in the lifestyle revolution brought on by future technologies. Professor Eui-Chul Jung, a leading expert in interactive product development and system, will talk about digitally converged Korean living appliances and commodities. These speeches will provide information about current ICT diffusion of Korea, a strong country in IT development and also global progress of High Technology.

This plenary session will provide an opportunity to examine and discuss how resources of time, space, and money, including the overall everyday lives and homes of individuals and families, are distributed and used according to what kind of life values and circumstances. This will provide significant insight for planning various future matters, such as future career development, economic business planning, and research on life related to food, clothing, shelter, living commodities, childcare, and lifespan development.
Plenary 3. Symbiotic Living with Ecology of Technology

Jinbae Park, Ph.D.,
Professor, Vice-President, Yonsei University, Seoul, Korea
Dr. Park, as a director of the Institute of Control Automation and Systems, has significant expertise in robotic intelligent products, e.g., intelligent products to use for robust aging. He believes that the pivotal driving force behind the IT revolutions would be interpreting diverse needs of the changing society. He will be giving the keynote speech on “Impact of Convergence Technology on Higher Education System.”

José Cordeiros, Ph.D.,
Professor, Singularity University, Silicone Valley, USA
Dr. Cordeiro is a founding faculty of Singularity University, where NASA and Google is practically cooperating with. Based on his extensive work in technological foresight and future studies as well as his international experiences and leadership, Dr. Cordeiro will give a presentation on “What Has Developed and Will Come Soom: Accelerating Drastic NBIC Revolution Age”.

Sirrika Heinonen, Ph.D.,
Professor, Turku School of Economics & Business Administration
Prof. Heinonen is a chief research scientist of Finland Futures Research Conter, a member of Club of Rome, and a Chair of the Millenium Project. Topics of her projects include Eco-information Society, Eco-Efficient, Eco-Managed Telework. She will give a speech on “Evolution of Symbiosis in Future Technology”.

Eui-Chul Jung, Ph.D.,
Professor, Human Environment of Design, Yonsei Univ., Korea
Dr. Eui-Chul Jung is a director of Human-Centered Integrated Design Lab. His major research area includes product & interaction design, design planning & management, and design methodology, which suggests methodology for context-sensitive system design by mapping internal contexts into visualization mechanism. His educational aim is to cultivate human-centered integrated designers for a symbiotic society.
# Conclusion Panel: Future Directions for Symbiotic Living

**Moderator:** Youngin Kim, Ph.D., Center for Human Culture & Design

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<thead>
<tr>
<th>Educational Implications &amp; Directions</th>
<th>Mikyoung Ha, Ph.D., 1st Plenary Moderator, Professor, Center for Future Environmental Design</th>
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<tr>
<td>Research Implication &amp; Directions</td>
<td>Kyoungja Park, Ph.D., 2nd Plenary Moderator, Professor, Center for Human Life Research</td>
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<tr>
<td>Service Implication &amp; Directions</td>
<td>Hyeyoung Kim, Ph.D., 3rd Plenary Moderator, Professor, Center for Human Culture &amp; Design</td>
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<tr>
<td>Implication on Developing Future Education Models</td>
<td>Jongsuk Chun, Ph.D., Master of Oct. 7, Professor, Center for Textiles &amp; Fashion Research</td>
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<tr>
<td>Implication on Collaborative Networking</td>
<td>Hyunsoo Lee, Ph.D., Master of Oct. 7 &amp; 8, Vice-director, The Institute of Symbiotic Life-TECH</td>
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<td>Global Partnership to Promote Human Ecology for Symbiotic Life</td>
<td>Soyeon Shim, Ph.D., Keynote of Oct. 7, University of Wisconsin-Madison, USA</td>
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<tr>
<td>Global Leadership with New Entrepreneurship &amp; Creative Spirit</td>
<td>Yeunsook Lee Ph.D., Opening Keynote of Conference, Director, The Institute of Symbiotic Life-TECH</td>
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## Brief Introduction of Panel Conclusion

An holistic approach and practicality have emerged as more important concepts to realize the genuine quality of human life, surrounding ecological systems which are ecology of nature, society and technology and their relationship with human were reviewed and predicted. Multidisciplinary experts participated and shared their view and knowledge for 2 days, focusing on everyday life subjects of what to eat, what to wear, what to use, where to live, how to nurture and care. Since this conference pursues not only interdisciplinary approach but also transdisciplinary one including creative action, this panel will talk about and conclude what to do to make better future, to cope with fast coming future in the areas of higher education, research, social service & collaborative networking and to show a global leadership. Because the conference provides the most current trends and experiments which is using valuable resources for future planning, and stimulates creativity both professional and student participants will be able to have a sharp lens through which they can plan better for future.

## Conclusion Panel: Future Directions for Symbiotic Living

**Youngin Kim**, Dr. Arts et Sciences de l’Art.
Professor, Human Environment of Design, Yonsei Univ.
Dr. Kim is a director of Color & Fashion Design Lab., where fashion design, color planning, trend and fashion color studies being conducted. She interprets colors and symbolic meanings in art history, paintings, and fashion trends and examines whether they could effectively represent the nature. By conducting collaborative research taking interdisciplinary approach, she shows professional leadership as an advisor of Korean Society of Costume.

**Mikyoung Ha**, Ph.D.
Professor, Interior Architecture & Built Environment, Yonsei University, Seoul, Korea
Dr. Ha is a president of "Environmental Design Lab", where taking integrated research approaches to problems created in the process of planning, design, and management of the human living environments. Her areas of expertise includes future housing design, facility planning and design management, and interior architecture.
Oct. 8(Wednesday), 2014. Conclusive Panel

International Conference in the memory of the 50th Anniversary of College of Human Ecology

Symbiotic Living with Ecology of Nature · Society & Technology

Kyoungja Park, Ph.D.
Professor, Child and Family Studies, Yonsei University, Seoul, Korea
Dr. Park is a director of 『Socioemotional Development Lab.』, where examining the socio-emotional development for early child development, such as peer relations, attachment, effects of daycare, social competency, and socioemotional adjustment especially for infants before 12 month-old children to develop parental and nonparental care methods.

Hyeyoung Kim, Ph.D.
Professor, Food & Nutrition, Yonsei University, Seoul, Korea
Dr. Kim is a director of 『Cell Biology & Nutrigenomics Lab.』. Her area of interest includes cell biology, nutritional biochemistry, nutrigenomics and proteomics, antioxidant nutrition, and pharmacologic nutrition, nutrients in cell signaling. She has been revealing her social leadership of public relations for the Korean Nutrition Society.

Jongsuk Chun, Ph.D.
Professor, Clothing & Textiles, Yonsei University, Seoul, Korea
Dr. Chun, as a director of 『Anthropometric Apparel Pattern Design Research Lab.』, has pioneered in 3D Pattern Making Technology. She developed and produced 3D Action Pattern Shirts for the first time in Korea, and held numbers of patents in Ergolo Patterns. Her area of interest includes 3D Body Scan Data Analysis, Functional Clothing Pattern Making, International Apparel Sizing System, and Global Sourcing.

Hyunsoo Lee, Ph.D.
Professor, Interior Architecture & Built Environment, Yonsei University, Seoul, Korea
Dr. Hyunsoo Lee, as a director of the research lab, 『Space Marketing Research Unit』, has been conducting space (design) marketing research, i.e., context-aware inference in ubiquitous residential environments, and mixed-use facility model for the welfare of diversified types of consumers. Other areas of Dr. Lee’s expertise includes housing and planning, environmental color planning, interior design, and consumer market research.

Soyeon Shim, Ph.D.
Dean, College of Human Ecology, Wisconsin-Madison
Dr. Soyeon Shim, the Dean of the School of Human Ecology (SoHE) at the University of Wisconsin, Madison, is an enthusiastic educator & administrator who has been stimulating and implementing creative challenges for advancing higher education. Her longitudinal study, APLUS, which is the first of its kind, has gained national recognition from the President’s Council of Financial Capability, the US. Treasury Office, and Wall Street Journal.

Yeunsook Lee, Ph.D.
Professor, Interior Architecture & Built Environment, Yonsei University, Seoul, Korea
Dr. Yeunsook Lee is a director of 『User-Centered Technology Space System & Design Lab.』, conducting inter-disciplinary research on urban regeneration, future housing, aging friendly environment, and universal design in human ecological perspectives. She has performed numbers of national R&D projects provoking the concept of symbiotic living, which had influences over the government policy. She has been opening international conferences persistently to pass on new paradigms to the society.
Oct. 8 Special Speech

Youngsook Park, President

Chair, Millennium Project Korea/UN Future Forum www.korea2050.net
Chair, World Future Society Korea
Publisher, Future Portal Indaily www.indaily.co.kr
CEO, Global Climate Situation Room www.algaetech.kr
President, Korean Foster Care Association www.ngopower.net
Adjunct professor, Futures Studies, Design Graduate School, Ewha Woman's University

Chair Youngsook Park is a pioneer and advocate of the Futures Studies in Korea introducing various global futures foresight researches and studies to Koreans as a chair of the UN Future Forum/the Millennium Project Korea and the World Future Society Korea. She attends annual World Futures Conferences, and co-authors of the State of the Future and other Futures Reports for the last 10 years. Her book the UN Futures Reports 2040 is one of the best sellers in Korea for futures. She speaks for many government offices and organizations, private companies and universities and talks for KBS, YTN, EBS, TBS, etc for TV programs and various media, writing many articles in her own daily Indaily.

She has completed Ph.D courses Social Welfare, Sungkyunkwan University and holds MS Ed., University of Southern California, USA; and BA in French, Kyungbuk National University, Korea. She was Director, Public Diplomacy, Australian Embassy for 10 years and Information Officer, British Embassy for 20 years. She is also President/Founder, Korean Foster Care Association in Seoul Korea. She is currently a committee member of the Futures Creative Science and Technology Ministry; the Social Services Research Development Auditing of the Ministry of Welfare; the Regulation Lifting Committee of the Education Ministry; was a committee member of the National Land and Maritime Future Technology Committee of the National Land Ministry; the Future Strategy Committee of the Ministry of Environment, the Future Agriculture Strategy Committee of the Ministry of Agriculture and Food & Drug Administration; the Child Rights Policies of the Prime Minister's Office, etc.

She is working on writing UN Future Reports, and Future Timeline to describe the Future Megatrends and future emerging technogies which may change the society as well, She also established Global Climate Situation Room at Gimcheon in 2009 to prepare for the upcoming climate change events. She has been involved with Korea's fertility rate lifting activities by establishing the Korean Fostercare Association preventing children from being adopted overseas. With various activities she tries to promote symbiotic living with Mother Earth and social co-habitation as well as share communities. She has written over 20 books on Futures, including the best sellers “UN Futures Reports 2025, 2030, 2040”, “Education 2020”, etc.

During this Conference, Prof Youngsook Park talks about “Global Application and its Diversity of Green Paradigm for Symbiotic Living” on October 8th. Through this talk, she tries to show the new emerging paradigm through macro-micro creativities to startups.
Oct. 8 **Keynote**

![Dr. Young Lee](image)

**Young Lee, Ph.D.**

President, Korea Institute of Child Care and Education  
Professor, Child and Family Studies, Yonsei University, Korea  
President, Korea Association for Child Studies  
President, Association of Life-Span Studies  
President, Korea Home Economics Association

Dr. Young Lee is a professor of Child and Family Studies at Yonsei University, Korea and currently is serving the president of the Korea Institute of Child Care and Education (KICCE) which is a national research institute established under the Prime Minister’s Office to carry out integrative and systematic policy research on Early Childhood Education and Care (ECEC). Dr. Young Lee has been recognized as one of the most influential professor in the Child and family Studies profession in Korea.

Dr. Young Lee received her Bachelor’s Degree in Human Ecology from Yonsei University, M.A. in Education from Yonsei University as well as in Early Childhood curriculum from Vanderbilt University, and Ph.D in Human Development and Family Studies from Cornell University. Dr. Lee has been a professor of Child and Family Studies for 35 years at Yonsei University, Korea. She served as the Dean of College of Human Ecology and the Director of the Research Center for Women Studies at Yonsei University.

During her service as the president of the Korea Association for Child Studies, the Association of Life-Span Studies, and the Korea Home Economics Association, she has contributed to develop this area to a strong academic discipline. For years, Dr. Lee served for the numerous government committees as a chairperson or a member, including the child care policy committee of Seoul Metropolitan City and the child care policy committee for the ministry of Health and Welfare in Korea. She is the author of several books, such as *Infant and Toddler Development* and *Creative Movement for Young Children* and numerous articles in research publications on Infant-Mother Attachment, infant’s emotional development, and the effects of Child care, so on.

As a president of KICCE whose mission is to develop the customized policy to prepare for the changing society through research, evaluation, and sharing of information, she has dedicated herself to promote the effectiveness of government investment in Early Childhood Education Care with hopes for a supportive and stable environment to children and happiness to their families. Based on her academic and social activities, she has been concentrating to build a system that can maximize research capabilities and support research effectively to develop and realize the best childcare policy.

On Oct. 8, 2014, she will give a keynote speech on “Living in the Lowest Birthrate Society and Quality of Life: Current Policy” which reveals the seriousness of current demographic phenomenon and the impact of government policies to support childcare and education on individual, family, and whole society in Korea.
Jinbae Park, Ph. D.

The Senior Vice President & Professor, Yonsei University
Senior Member, the National Academy of Engineering of Korea
Board Member, Korea Institute of Intellectual Property
Former President, Institution of Control, Robot, and Systems
Former Editor-in-Chief, International Journal of Control, Automation and Systems

Dr. Jin Bae Park is a remarkable researcher, engineer, and dedicated educator with outstanding contributions on control theories and related practical technology. As a researcher, he developed various control theories such as digital redesign and intelligent nonlinear control methods and implemented numerous projects with regard to such a practical technology. As an educator, he has led the policies and plans for higher education and researches through cooperations with and dedications to the Korean government and universities.

Having B. S. degree from Yonsei University, he earned his M.S., Ph.D. degree in Electrical Engineering from Kansas State University, Manhattan, KS, US. After that, being a Professor in Yonsei University, he has been very active in a wide range of academic and educational committees such as president of Institute of Control, Robot, and Systems Engineers an Editorial Board Member of the Korean Institute of Electrical Engineers and the Editor-in-Chief of the International Journal of Control, Automation, and Systems. Besides, he has served in diverse ways at Yonsei University including Vice President of Research Affairs, President of University-Industry Foundation, Admissions, Library and Information Services, and Enterprise Support Foundation.

He has published many books and about 165 articles in leading international journals and received a number of international and domestic academic awards. The major works include On integral generalized policy iteration for continuous-time linear quadratic regulations, Decentralized fuzzy observer-based output-feedback control for nonlinear large-scale systems: an LMI approach, Cable Fault Localization Using Instantaneous Frequency Estimation in Gaussian Enveloped Linear Chirp Reflectometry, A less conservative LMI condition for robust D-stability of polynomial matrix polytopes-A projection approach, Robust Least Squares Approach to Passive Target Localization Using Ultrasonic Receiver Array, Adaptive formation control of electrically driven nonholonomic mobile robots with limited information, A New Intelligent Digital Redesign for T-S Fuzzy Systems: Global Approach.

Being a senior member of the National Academy of Engineering of Korea, one of the most representative and authoritative academic community in Korea, he is continuously developing control and estimation theories and its applied engineering techniques. Besides, he has been serving the Senior Vice President for Yonsei University to make a further progress in the higher educational systems.

On October 8, 2014, he will give a speech on “Impact of Convergence Technology on Higher Educational System,” which reveals the changes in the current higher educational system due to the convergence technology. Moreover, he is expected to show the vision for preparing the new higher educational world impacted by convergence technology.
Sirkka Heinonen, Ph.D.

Chief Research Scientist, Finland Futures Research Center
Professor, Turku School of Economics & Business Administration
Member, Club of Rome
Chair, the Millennium Project, Helsinki Node

Professor Sirkka Heinonen has a vast expertise in futures research, with focus on technology foresight. Her fields of expertise include futures studies, telework, Sustainable and creative community, construction and housing, future of transport and mobility, lifestyles, philosophy of technology, the future of cities, rural areas and regions, future of living and working, telepresence and ambient intelligence, information society, innovations and social media. She has introduced the concept of "Creative Foresight Space" and "Futures Cliniques", and is involved in developing foresight methodologies. She has been involved in preparing the Finnish Government's Futures Report to the Parliament and in renewing the Finnish National Strategy for Information Society. She is a frequently consulted futurist expert both for the government and the private sector.

She worked at Technical Research Centre of Finland for several years, first as a Senior Research Scientist and then as a Chief Research Scientist since 1979. After over 20 years as futures researcher at the Centre, she is now Professor at the Finland Futures Research Centre, University of Turku, is Director of the Helsinki Office of FFRC, heads the Research Group of Media and Communications. She is president of the Finnish Society for Futures Studies, and member of the Club of Rome.


As a chief research scientist of Finland Futures Research Centre, one of the largest academic futures studies centers in the world. She has made great efforts in continually developing the scientific foundation and methods of future studies and refining visionary knowledge regarding alternative future, and providing tools for responsible decision-making and to stimulate public debate.

On Oct. 8, 2014, she will give a speech on “Symbiotic Living & Lifestyle Revolution with Future Technology” which is expected to stimulate creative challenges in enhancing current jobs and preparing new future careers.
Oct. 9 (Thursday), 2014. Technical Theme Tour Schedule & Site Information

**Technical Theme Tour for International Conference of Symbiotic Life-TECH**

**Where We are in & Heading for Symbiotic Living**

Oct. 9 (Thursday), 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 - 09:00</td>
<td>Moving</td>
</tr>
<tr>
<td>09:00 - 10:30</td>
<td>Guri Resource Retrieving Facility &amp; Community Wellbeing Center, Kyunggi Province</td>
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<tr>
<td>10:30 - 11:30</td>
<td>Moving</td>
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<tr>
<td>11:30 - 12:30</td>
<td>Cheonggyecheon Urban Regenerated Area, Seoul City (Lunch)</td>
</tr>
<tr>
<td>12:30 - 13:00</td>
<td>Moving</td>
</tr>
<tr>
<td>13:00 - 14:00</td>
<td>Digital Media City &amp; Sky Park, Regenerated from Waste Land, Seoul City</td>
</tr>
<tr>
<td>14:00 - 15:00</td>
<td>Moving</td>
</tr>
<tr>
<td>15:00 - 17:30</td>
<td>Dream Park of Nature &amp; Creative Art, Developed on Landfill, Incheon City</td>
</tr>
<tr>
<td>17:30 - 20:00</td>
<td>Banquet in the Natural Environment with Creative Spirit at Dream Park, Incheon City</td>
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</table>

**Introduction of Technical Theme Tour**

Through the rapid industrialization process, Korea developed urban environment in a very productive and efficient manner, highly respecting mass-producing technology, without sufficient philosophical and knowledge base for robust and sustainable city. Fortunately, from the beginning of the 21st century, multidisciplinary and collaborative approaches emerged important. Again, however, Korea has experienced lots of trials and errors because of too much subdivided specialization and its rigid climate. As globalization and Information society that demolished existing boundaries progressed, some efforts were found as examples showing integrative vision and convergence. Further, the examples challenged to global climate change, social polarization, development of high technology not only for industrial business but also for enhancing living standard for people including vulnerable population, especially linking alternative energy produced by recycling waste, to the wellbeing of community residents. These leading cases at a glance, seems large scale projects, but they are micro cosmoses which embrace diverse lives of residents. These cases at a glance, seems simple physical environment projects, but they are socio-physical environments where humanware, contentware and hardware were delicately intertwined. Most cases here are not new city or new town projects which usually demolish everything first and reconstruct, but regenerated ones where brave challenges were attempted to solve dilemmatic problems and pursue collaborative partnership with community residents. These are ones that realized symbiotic living with natural ecology towards Zero-Energy and Zero-Waste society and with ecology of society through revitalizing the sense of community, enhancing life quality, and producing new job opportunities. Finally, there will be a banquet at the site of showing such symbiotic living with nature and with society, under the spirit of art and creativity.

**Guri Resource Retrieving Facility & Community Wellbeing Center (09:00 - 10:30)**

Overlooking the riverside green field, Guri City has rapidly expanded, due to population increase, industrial development, and lifestyle enhancement and diversification. As city grows, waste became the main culprit of environmental pollution and caused great social conflicts in locating waste collection facility, a serious dislike. The city challenged to overcome this dilemmatic condition. As a result, Guri resource retrieving facility was built to secure landfill and environmental conservation. This facility itself solves its own noise, odor, air pollution and waste water problems. The energy produced through waste treatment has been used for community wellbeing facilities such as swimming pool, soccer field and other sport and leisure facilities. It is also meaningful that the process incorporated residents participation and produced reliable trust between public and private sector promoting social capital which is an invaluable tool for fixing community problems. The facility has contributed to the economy of nation, as well as Guri City and community by way of implementing pollution free living environment, environmental preservation, reduction of energy usage, waste recycling through a reliable and hygienic process.
Oct. 9 (Thursday), 2014. Technical Theme Tour Schedule & Site Information

Cheonggyecheon, Regenerated Stream Area (11:30 - 12:30)

The Cheonggyecheon used to be a naturally formed stream before the Joseon Dynasty. As the city had been surrounded by mountains, its water was flowing into downtown. After the Korean War, the accompanying trash, sand, and waste, and deteriorating conditions because of rapid increase of population resulted in an eyesore in the city. Finally, the stream was covered up with concrete over a 20 year period starting in 1958, and a 5.6 km-long, 16 m-wide elevated highway was completed in 1976. The area became an example of successful industrialization and modernization of South Korea. Then the Cheonggyecheon restoration project started in July, 2003 with the purpose of preserving the unique identity of the natural environment and the historic resources in the CBD of Seoul, and to reinforce the surrounding business area with information technology, international affairs and digital industries. Accordingly, elevated highway was removed and the stream was restored with the pedestrian-friendly road network connecting the stream with traditional resources. This project has been globally well-known and surely showing some of symbiotic living, despite still lots of discussions about pros and cons.

Digital Media City & Sky Park Regenerated from Waste Land (13:00 - 14:00)

The Digital Media City is a state-of-the-art digital media entertainment cluster formed by the Seoul Metropolitan Government with the goal of completing it in 2015. It takes up 569,925m² in the northwest part of Seoul in Sangam District. More than 30,000 people have been working for over 400 companies in DMC. By 2015, about 600 enterprises will be doing business in DMC with 60,000 people. Citizens within the DMC complex can access the Internet free of charge through a wireless high-speed fiber optic network anytime anywhere. The DMC is equipped with the world's fastest high-speed telecom network and IT infrastructure. The Sky Park is a regenerated 190,000m² park from the most sterile waste land. Since this park is completely man-made case, it shows how the beautiful & healthy nature can be created from the most disliked ugly & unhygienic abandoned area. In the park of grassy places with diverse beautiful butterflies, one can enjoy the panoramic view of Seoul, and it became one of the best favorite places among Seoul citizens. While DMC is expected to be a venue for future lifestyle, the Sky Park shows how we can create a place to be a win-win success of nature and society.

Dream Park of Nature & Art, Developed on Landfill (15:00 – 17:30, including Art Performance)

The development of Dream Park aimed to change the perception of the area from a waste landfill which has long been a dislike area, to a daily living space. It was established to optimize its function of reclaimed landfill and to be a place built up of facilities as an ecological park, and to have a variety of spaces where people can experience nature, based on its unique character. Besides, various programs were developed to improve perception of wastes landfill sites, to be understood as a part of our life, to provide a living educational plaza of nature, to provide leisure and rest spaces for community residents, and to create job opportunity for community residents. Furthermore, currently it embraced a creative art studio & Culture center to promote recycling arts in this area. During the development period, the project pursued ‘win-win-win’ strategy which made it successful, making beneficial to Government, Citizen, and Community residents. Especially, it is meaningful that it was carried out with the consensus and support from the community. This case shows human creativity in dealing with complicated problems, and finding symbiotic solutions beneficial to both ecology of nature and ecology of society.
Oct. 9 Special Site

Guri Resource Retrieving Facility

Guri City has a population of 196,171 with 73,273 households and the land area of 33.30 km². It is located on the northeastern area of Gyeonggi-do, where is close to Gangdong-gu and Songpa-gu of Seoul and Hangang River to the south. The scheme for the establishment of Guri Resource retrieving Facility was proposed in 1995 when the operation of landfill site was completed, the resistance and regional self-centeredness to the environmental issue regarding the landfill site at the metropolitan area were building up and conflicts were created due to the social consciousness that the landfill site was an unpleasant facility even though the necessity of incineration plant was recognized.

Therefore, the city established the plan for waste disposal facility by emphasizing the necessity of resource retrieving facility to city residents continuously, discussing and determining the location and waste disposal method through resident surveys, and sharing the waste issues with residents. The city established the governance based on the city hall, local residents, city council and environment experts, prepared a place for communication with local residents to solve conflicts regarding the establishment and operation of incineration plant by holding the presentations for residents, organizing the open consulting group with residents and operating the self-governed school program. As a result, it was established within the region unlike the general practice to locate them far from the city.

The original purpose at the time of planning this facility was to establish 「a park-like facility where residents would enjoy to visit」, provide 「attractions」, promote 「efficient facility operation」 and secure 「safety with a reliable eco-friendly facility」. For this, the residential life sports facility was introduced, the 360° rotary Guri tower (observatory) using the chimney of incineration plant was installed, and the system to display the incineration information in real time through the signboard installed at the front gate of the facility and the citizens' monitoring program were introduced.

The Guri tower has the function of observatory as well as gallery for citizens and the 360° rotary restaurant. The height of the chimney is 100 m, the gross area on the 1st floor is 320m². The gross area of the residents’ convenience facility is 37,512 m². Indoor facilities include a swimming pool, sauna, multi-purpose sports facility, and children's sports center, and outdoor facilities include an international standard soccer field, 2 futsal fields, tennis court and a 1.7 km trail.

The City changed the awareness of residents on the incineration facility through continuous communications with residents from the initial stage, provided and operated the affordable convenience facility for the majority of citizens using the residual heat from the incineration. And, the construction of Guri tower provided the landmark of Guri City and established the Guri Resource retrieving Facility into the first place in the country where citizens would enjoy to visit. This case showed the method of coexistence with natural ecosystem by disposing waste and using incidental energy from the disposal as well as the method of coexistence with social ecosystem by establishing the unpleasant facility within the region to reduce social conflicts and promote the community spirit through the cooperation with residents. And, the technology to circulate energy was used wisely to show the coexistence with the technology.
**Oct. 9 Special Site**

**Sudokwon Landfill Site in Incheon, DREAMPARK**

The Sudokwon landfill site is the largest waste landfill site in the world established in 1992, and it was rated as the exemplary landfill site by OECD in 2006. The site which handles waste discharged by 25 million residents from Seoul, Gyeonggi province and Incheon is located in Baekseok-dong, Incheon which is 40 minutes away from Seoul, and approximately 18,000 tons of waste is disposed everyday. This site is managed jointly by the Dreampark Cultural Foundation, Sudokwon Landfill Site Management Corporation and the Ministry of Environment. The flower festivals such as chrysanthemum and wild flowers grown using landfill gas are held, the site is recreated into the citizen's forest through 10 million Tree Planting Campaign, various cultural, sports facilities and cultural events are managed and held every year. The purpose of DREAMPARK is to restore nature of target sites while maintaining the inherent function of landfill as much as possible and utilize the site as an environment theme park with complementary facilities, including the green technology research center. DREAMPARK is established with four different themes of Waste-to-Energy Town, Bio Energy Town, Natural Energy Town and Eco-Culture Complex and to lead the initiative of fighting global warming and creating eco-friendly environment.

The development of environment theme park has changed the view of residents on the waste landfill site from an unpleasant facility to everyday living space, providing the rest space for residents in the metropolitan area and regions as well as the global tourist attraction. Basic concepts of green bio complex for DREAMPARK including human, green and bio are established. Native plants are added to the previously established nature learning and observation zones and the wild flower garden to reinforce the theme and rest facilities, convenience facilities and guide facilities are established to provide convenience to visitors. Also, the botanical garden is established to promote the experience learning and education of visitors. The minimum function of park consisting of "Nature-Ecology-Wetland" is maintained and supplemented by establishing the wetland observation zone in connection with wild flower garden and ecological pond.

A 50MW landfill gas power plant generates electricity worth 55 billion Won annually, which enables us to secure a CER equal to 800,000 tons of CO2 a year. Upon completion of building 「Metropolitan Eco & Energy Town」 for new and renewable energy industry in 2018, 2.51 million Gcal of energy annually is expected. The Sudokwon landfill site is being operated as clean landfill site with no pollution through the application of new technologies and methods including complete liner system, prompt rainwater removal, cell embedment, eco-friendly leachat processing method and advanced inflow inspection system to block illegal waste. New and renewable energy utilizing landfill gas generated from landfill waste processing reduces import. A variety of projects has been implemented to revitalize the local economy and enhance the welfare and quality of life for local residents including the resident support project by hosting various environment and cultural events and implementing resident support projects through Resident Council. DREAMPARK has become the space and environment theme park which is beneficial to everyone through active cooperation with local governments including Seoul, Incheon and Gyeonggi-do.
Oct. 9 Special Speech at the field site

Hwan Lee, Ph.D.

Creative planner & installation artist
Green story telling writer, fusion cultural artist
Founder and artist, Museum of Environmental Reproduction & Formative Arts (MERFA)
Planner and village headman of Energy Park in Incheon “Dream Park”
Received the Order of Civil Merit, Peony Medal
Official honorary ambassador of the Ministry of Environment
Adjunct Professor at College of Humanities, Department of Arts, Chungbuk National University

Hwan Lee is a representative creative cultural planner, green storytelling writer as well as frontier and educator who creates fusion cultural arts. He is the founder of MERFA, and has been an honorary ambassador of the Ministry of Environment. He is considered as Paik Nam June in environmental arts in Korea. He served as the chairman of the screening committee for Green Character Design Contest and the general director for Green Start Co2 Reduction Campaign. He also has carried out numerous creative workshops.

Dr. Lee graduated from Seoul National University of Science & Technology, received his master’s degree from Inha University and his doctoral degree in U-City IT Fusion Urban Policy Studies from Hansei University. We worked at the Design Development Division of Samsung Electronics, IDM Environmental Design Research Institute. He has been teaching at Chosun University and Chungbuk National University. He is collaborating with Museum of Environmental Reproduction & Formative Arts for creativity and promoting environmental creative economy continuously.

Lee Hwan received the Order of Civil Merit “Peony Medal”. He was nominated for the main prize of UNWTO General Assembly and awarded the New Primitive Art Grand Prize. He performed the environmental improvement projects of environmental research complex at National Institute of Environmental Science, and his books and researches include ‘A Study on the Formative Space of Koguryo Murals’, ‘Green Travel Stories of Green Boy’, ‘A Study on the Brand Specialization Project of National Park Odongdo Island’, ‘A Study on the Tourism Service based on Story Telling and Characters’, and ‘A Study on the Resource Circulation Land’.

He has established ImagiNation “Energy Park” in Incheon “Dream Park” recently, devoting himself on creative artworks to allow people to experience eco-friendly technologies and appreciate installation artworks. He has created robot sculptures from wastes based on his experience in the environmental reproduction and formative arts activities, contributing to the enhancement of cultural and artistic value of the Landfill Site which restores wasted environments.

As a creative writer and curator of Energy Park in Dream Park, the representative field for symbiotic living, he will give a special lecture at the field regarding his philosophy, artworks and outdoor exhibition.
Oct. 10 (Friday), 2014. Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Art Show: ‘Symbiosis Video Art’ &amp; Opening</td>
<td>Master: Youngjoo Kim, Ph.D.</td>
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<tr>
<td>09:30</td>
<td>Keynote: Sustainable Urban Development</td>
<td>Roderick Lawrence, Ph.D., Professor University of Geneva, Switzerland</td>
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<tr>
<td>09:40</td>
<td>Opening Address: Roles of the Academia in Leading the Future Society</td>
<td>Yeunsook Lee, Ph.D., Professor, Yonsei University, Seoul, Korea</td>
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<tr>
<td>09:50</td>
<td>Slide Show: Contributed Journals for Symbiotic Life Science &amp; Technology</td>
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<tr>
<td>10:00</td>
<td>Session 1. Evolution of Symbiosis for Environmental Sustainability</td>
<td>Moderator: Kaysoon Chang Ph.D.</td>
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<tr>
<td>10:00</td>
<td>Speech 1: Symbiotic Living and Sustainability: Research &amp; Policy</td>
<td>David Richardson, Ph.D., Chief Editor of JS, Professor, St. Mary’s University, Canada</td>
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<tr>
<td>10:25</td>
<td>Speech 2: Evolution of Symbiosis in the Journal of Architecture and Planning Research</td>
<td>Andrew Seidel, Ph.D., Chief Editor of JAPR, Professor, UNBC, Canada,</td>
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<tr>
<td>10:50</td>
<td>Speech 3: Symbiotic living and Sustainability: Research and Policy</td>
<td>Ricardo Garcia Mira, Ph.D., Professor, University of Coruña, Spain</td>
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<tr>
<td>11:15</td>
<td>Sp. Lec.: Green Implementation Towards Environmental Sustainability in Spain</td>
<td>Ibon Zugasti, Director of PROSPEKTIKER, Mondragon Corporation, Basque Country, Spain</td>
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<tr>
<td>11:40</td>
<td>Discussion</td>
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<tr>
<td>12:00</td>
<td>Art Slide: Creating Fusion Art from the Waste Land for Symbiotic Culture by Dr. Hwan Lee</td>
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<tr>
<td>13:00</td>
<td>Session 2. Evolution of Symbiosis for Social Justice and Sustainability</td>
<td>Moderator: Andrew Seidel Ph.D.</td>
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<tr>
<td>13:00</td>
<td>Speech 1: Issues for A Better Future : Cultural Diversity, Social Justice, Gender and Ethics</td>
<td>Donna Mertens, Ph.D., Chief Editor of JMMR, Professor, Gallaudet University, USA</td>
</tr>
<tr>
<td>13:25</td>
<td>Speech 2: Symbiotic Social Capital Toward Democratic Society</td>
<td>Kaysoon Chang, Ph.D., Professor, International Division, Yonsei University, Seoul, Korea</td>
</tr>
<tr>
<td>13:50</td>
<td>Speech 3: Evolution of Research on Symbiosis in the Journal, “Exceptional Children”</td>
<td>Margo Mastropieri, Ph.D., Chief Editor of JEC, Professor, George Mason University, USA</td>
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<tr>
<td>14:15</td>
<td>Sp. Lec.: Socially Integrated Community, Housing Welfare and Universal Design in Korea</td>
<td>Yeunsook Lee, Ph.D., Professor, Yonsei University, Seoul, Korea</td>
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<tr>
<td>14:40</td>
<td>Discussion</td>
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<tr>
<td>15:00</td>
<td>Coffee Break</td>
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<tr>
<td>15:30</td>
<td>Session 3. Evolution of Symbiosis for Technological Sustainability</td>
<td>Moderator: Hyegyung Yoon D.S.</td>
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<tr>
<td>15:30</td>
<td>Speech 1: Inclusiveness as a Strategy for a Robust Democratic Society</td>
<td>Thomas Scruggs, Ph.D., Professor, George Mason University, USA</td>
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<tr>
<td>15:55</td>
<td>Speech 2: Human Enhancing Technology &amp; Transhumanism Toward Freer Society</td>
<td>José Cordeiro, Ph.D., Professor, Singularity University, NASA, USA</td>
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<tr>
<td>16:20</td>
<td>Speech 3: Evolution of Symbiosis in Future Technology</td>
<td>Sirkka Heinonen, Ph.D., Professor, University of Turku, Helsinki, Finland</td>
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<tr>
<td>16:45</td>
<td>Discussion</td>
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<tr>
<td>17:05</td>
<td>Conclusion: Future Directions for Symbiotic Life Science &amp; Technology</td>
<td>Master: Yeunsook Lee, Ph.D.</td>
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</tbody>
</table>

Venue: Samsung Hall, Yonsei University, Seoul Korea
Planned by: Institute of Symbiotic Life Science & Technology, Yonsei University

Speaker schedules are subject to change in case of emergent situations.
**Opening**

Master: Youngjoo Kim, Ph.D.

This Grand Round Table Discussion among leading professionals is specially arranged to provide a venue to gather intellectual insights about symbiotic evolution, in order to grasp the meaning, scope and complexity of symbiotic living so far. Under the belief that symbiosis will be a major concept and paradigm in future, this multidisciplinary discussion traces its evolution in various fields to understand complex situations and predict about its future directions. The participating professors in this multidisciplinary discussion will open the new door to holistic understanding of symbiosis beyond each discipline area. Further, a transdisciplinarity will be pursued to create a holistic approach. In this context, the state of current policies and its direction toward realization of symbiotic society will be introduced.

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**Session 1. Evolution of Symbiosis for Environmental Sustainability**

Moderator: Kaysoon Chang Ph.D.

In this session, several fields in science such as biology, architecture will share about the evolution of symbiosis in each field. This will highlight the value of nature, the value of existing together, and the value of symbiotic living with nature and the ways to achieve it. After the 3 consecutive presentations about its conceptual and theoretical evolution, a practical project which has been implemented to realize the symbiotic living with nature, integrating multidisciplinary values and knowledge will be presented, thereby to generate discussions of transdisciplinary approach. It is expected to synthesize the evolution trends in different disciplines toward a common converging matured concept of symbiosis where the evolution characteristics will contribute to creating the theory.

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**Session 2. Evolution of Symbiosis for Social Justice and Sustainability**

Moderator: Andrew Seidel Ph.D.

In this session, several fields in humanities and social sciences, such as psychology, education, political science, and economy will share about the evolution of symbiosis in each field. This will highlight the value of human dignity, the value of existing together, and the value of symbiotic living and the ways to achieve it. After 3 presentations about its conceptual and theoretical evolution, a practical project which has been implemented to realize the symbiotic society, integrating multidisciplinary visions and knowledge will be presented, thereby to generate discussions of transdisciplinary approach. It is expected to synthesize the evolution trends in different disciplines toward a common converging matured concept of symbiosis where the evolution characteristics will contribute to creating the theory.

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**Session 3. Evolution of Symbiosis for Technological Sustainability**

Moderator: Hyekyoung Yoon D.S.

In the session, future development in science and technology, such as computer science, information technology, bio-technology, nano-technology, human enhancement technology will be shared for evolution of symbiosis between human life quality and technology. This session first will introduce the value of inclusiveness and current human barrier condition. And then progress and upcoming revolution to enhance human function and to make human freer despite of disability will be presented. Through these presentations, symbiotic relationship between human and technology will be highlighted. In this session, the value of establishing ideal and robust direction for future technology development will be recognized. Accordingly, intervention will be considered along with prediction of future lifestyles.
Evolution of Symbiosis for More Holistic Quality of Life in Future

David Richardson, Ph.D.
Editor-in-Chief, "Symbiosis"
Professor, Dean Emeritus of Science, St. Mary’s University, Canada

Dr. Richardson has shown academic leadership in mycological field. His expertise includes biology of lichen, climate change, aero-biology, human health and natural vegetation. He is the author of “Climate Change, Aerobiology, and Human Health. He also served as a chair of the Lichens and Mosses subcommittee of COSEWIC (Committee on the Status of Endangered Wildlife in Canada). He received award from the Canadian Botanical Association and the Plant Psychology from British Lichen Society.

The international journal “Symbiosis”, that Dr. Richardson founded in 1994, contributes to the understanding of symbiotic interactions at the organismic levels. Symbiosis aims to introduce new or unknown symbioses for research in symbiology and intends to provide a central information point for this intriguing subfield. Topics include nutritional interactions, mutual regulatory, ecological adaptations, evolutionary consequences of symbiosis.

On Oct. 10, 2014, he will be giving a speech on “Symbiotic Living & Sustainability”, to examine the interaction between symbiotical sustainability. Through his presentation, economic, social, political and organizational processes, as well as the effect of climate change on human health, and the future prospect for symbiosis will be delimitated.

Andrew Seidel, Ph.D.
Editor-in-Chief, "Journal of Architectural and Planning Research"
Professor of Environmental Planning, Univ. of N. British Columbia, Canada

Dr. Seidel has been leading the field of social and behavioral aspects of architecture and built environment. His area of expertise is social effects of the building environment, which especially provokes the sustainable environments at personal and community levels. Currently, he completed a book, “Social Effects of the Building Environment”.

The Journal of Architectural and Planning Research, that Dr. Seidel founded, is the major international interdisciplinary resource for professionals and scholars in architecture, design, and planning. Reporting internationally both recent research findings and innovative new practices, JAPR provides a link between theory and practice for researchers and practicing professionals.

On Oct. 10, 2014, based on his 29 years of experience as a chief editor, Dr. Seidel will be giving a presentation on “Evolution of Symbiosis in the Journal of Architecture and Planning Research.” Through his presentation, he will delimitate how the concept of symbiotic living has been accumulated in the journal so far, as well as in what dimensions the concept has been emerged; and thereby how the concept has been contributed to the birth of symbiotic life sciences and technology.
Oct. 10 (Friday), 2014. Speakers

Grand Round Table Discussion of Professional Leaders

**Evolution of Symbiosis for More Holistic Quality of Life in Future**

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**Ricardo Garcia Mira, Ph.D.**

European Editor-in-Chief, *Journal of Architectural and Planning Research*
Professor of Social and Environmental Psychology, Univ. of A Coruña, Spain

Dr. Mira has shown his leadership in environment psychology and human behavior. Area of expertise includes sustainable behavior, carbon-free lifestyle, predict model of ecological behavior, environmental design, sustainable local development, psycho-social impact.

The Journal of Architectural and Planning Research, that Dr. Mira serves as European editor, is the major international interdisciplinary resource for professionals and scholars in architecture, design, and planning. Reporting internationally both recent research findings and innovative new practices, JAPR provides a link between theory and practice for researchers and practicing professionals.

On Oct. 10, 2014, he gives a presentation on “Symbiotic living and Sustainability: Research and Policy”. Current research on sustainability (sustainable lifestyles and low carbon life). Through his presentation, overview of the current research on symbiotic living will be shared as well as the current status of symbiotic relations between human and natural environment.

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**Donna Mertens, Ph.D.**

Editor-in-Chief, *Journal of Mixed Methods Research*
Professor in the Department of Education at Gallaudet Univ., USA

Dr. Mertens has been leading the area of transformative research & evaluation integrating diversity of quantitative/qualitative mixed method research. Besides, she has been engaging in diverse communities as participating in the United Nations initiative to address the Millennium Goals for margined women. The key issues of her expertise include ethics, gender equity, disability, social justice and social inclusivity.

Journal of Mixed Method Research, one of the leading journals in social sciences, where she serves as a chief-editor since 2007, includes articles across the social, behavioral, health, and human sciences delineating where mixed methods research may be used most effectively by illuminating design and procedure issues, and determining the logistics of conducting mixed methods research.

Based on her experience as a chief editor for JMMR, on Oct. 10, 2014, she will be presenting on “Catalyst for Social Well-being.” Through her presentation, she is to show that the concept of the symbiotic living has been existed and evolved from the early stages of philosophical disciplines, which substantially contribute to the birth of symbiotic life sciences and technology.
Oct. 10 (Friday), 2014. Speakers

Grand Round Table Discussion of Professional Leaders

Evolution of Symbiosis for More Holistic Quality of Life in Future

Kay Soon Chang, Ph.D.

Visiting Professor, Institute of East and West Studies, Underwood International College, Yonsei University Advisory Committee Member, International Cooperation Division, Ministry of Environment, Korea Committee Member, Environmental Ecology Division, Green Consumers’ Association

Dr. Chang has shown her social leadership as a committee member of the Mistry of Environment, Korea, Association for Green Campus Initiative, and as a researcher of Institute of Foreign Affairs and National Security, etc.

Dr. Chang has lectured at Underwood International College, where the Yonsei strategically established for the vision of global educations. She received the Best Instructor’s Award from Yonsei in 2007. She has been conducting interdisciplinary research converging diverse theories from different fields of social sciences. Her current research are titled as “Political Economy of Institutions and Policy Change”, “Epistemic Community and the Implementation of the Stabilization Policy” and “Institutionalizing Regions: East-Asian and European Perspectives on Regional Regime Dynamics”.

On Oct. 10, 2014, Dr. Chang will be giving a speech on “Symbiotic Social Capital toward Democratic Society”, to examine the interaction between the structural constraints and the human agent. She will posit a more autonomous role for institutions in establishing a sense of belongings, a shared value and culture, a common interest for collective action, and thereby increasing social capital and changing the existing distribution of power.

Margo Mastropieri, Ph.D.

Editor-in-Chief, ‘Exceptional Children’, Professor in the dept. of Education, George Mason Univ., USA

Dr. Mastropierie lead in special education. Her area of expertise include students with strong for effective Inclusive instruction. Dr. Mastropieri’s publications include over 180 journal articles, 48 book chapters, and 28 books. Her current book titles include: A Practical Guide for Teaching to Science to Students in Inclusive Settings (Pro-Ed), Teaching Students Ways to Remember: Strategies for Learning Mnemonically, and The Inclusive Classroom: Strategies for Effective Differentiated Instruction.

The journal, “Exceptional Children” publishes methodological reviews of literature, data-based position papers, and policy analyses on the education and development of children and youth with exceptionalities, and ranked as top 5th in the field last year.

On Oct. 10, 2014, she will be giving a speech on “Evolution of Research on Symbiosis in the journal, “Exceptional Children“ to stress the current research on symbiotic lifestyles and sustainable life for the real people group in the field of social sciences. She will also discuss research-to-practice information and materials for educators to use, as well as current issues in academic research in social sciences.
Oct. 10 (Friday), 2014. Speakers

Grand Round Table Discussion of Professional Leaders

Evolution of Symbiosis for More Holistic Quality of Life in Future

Thomas E. Scruggs, Ph.D.
Former Editor-in-Chief, Advances in Learning and Behavioral Disabilities
Professor in the dept. of Education, George Mason Univ., USA

Dr. Scruggs has shown his leadership in achieving Emerald Leadership Recognition Award, and Distinguished Researcher Award, American Educational Research Association: Special Education Special Interest Group, Outstanding Service Award, Emerald Group Publishing Ltd., and Phi Kappa Phi Honor Society for the last 20 years of his tremendous research work. His major area of interest is learning disability.

The journal “Advances in Learning and Behavioral Disabilities”, that Dr. Scurrggs served for 20 years, addresses contemporary topics such as response-to-intervention and universal systems. Scholars of this journal describe and discuss future directions for treatments such as social skills instruction, cognitive-behavioral prevention, social emotional learning programs, and self-monitoring.

On Oct. 10, 2014, he will be giving a speech on “Inclusiveness as a Strategy for a Robust Democratic Society”, to illustrate how to build or create an inclusive society by implementing practical strategies to promote social integration. Through his presentation, relationship between inclusive educational system and democracy will be clearly delimitated.

<Sand Art for Symbiotic Living>
The Institute of Symbiotic Life-TECH (Yonsei University) proudly launches the Journal of Symbiotic Life Science & Technology. The Symbiotic Life-TECH intends to promote and stimulate creative research incorporating fast changing science technology to be contributed to lifestyle innovation for sustainable future.

You are encouraged to submit your paper to the Journal of Symbiotic Life Science & Technology any time. All submitted papers would have been subjected to double blind peer review.

Mission Statement:
The Journal of Symbiotic Life Science & Technology is a quarterly journal that publishes peer-reviewed conceptual and empirical papers, and business cases that make significant and original contributions to the understanding and advancement of symbiotic life sciences encompassing technology, ecology, culture and human for research and practice. The Journal is interdisciplinary and global in nature, emphasizing the convergence of different fields.

Target Readers:
Academics, Researchers and Practitioners in any fields of Science and Technology pursuing Symbiotic Life

Topics of Interest Specific to Each Area:

Area 1. What to Eat
- Personalized Nutrition
- Food Science Systems
- Probiotics for Functional Food
- Bioactive Nutrition

Area 2. What to Wear
- Fair Trade & Consumption
- Ethical Fashion
- Social Media & Consumption
- Sustainable Fashion
- Green Manufacturing & Marketing

Area 3. What to Use
- Design for Social Intervention
- Service Design & Management
- Open/User-Centered Design
- Biomimetic Design
- Design for Sustainable Behavior

Area 4. Where to Live
- Design for Geographical Heritage
- Man-Made Symbiosis
- Human-Computer Interaction
- Design & Information Technology

Area 5. How to Nurture & Care
- Child Care & Education in Multi-Culture
- Family & Diversity
- Successful Aging
- Nature & Education
- Pro-Environmental Behavior

Area 6. How to Act
- Creating Shared Value (CSV)
- Consumer Democracy
- Cultural Convergence of Consumption
- Green Consumption
- Lower Carbon Lifestyles

Topics of Interest in All Related Areas:
- Symbiotic Relationships
- Sustainable Production & Consumption
- Ethic & Social Responsibility
- Mass Customization
- Universal Design & Social Design Paradigms
- Collaborative Planning & Design
- Human Enhancing Technology & Lifestyle
- Open Innovation for Shared Value

Manuscript guidelines for the Journal of Symbiotic Life Science & Technology are posted on the website (http://www.SymbioticLifeTECH.org). For more information for submission, please contact symbioticdiving@yonsei.ac.kr
Strategy 2.

Venue for Experimental Education

- Statement
- Action 1. Global Future Leaders’ Lunch Forum
- Action 2. Intensive Interdisciplinary Educational Workshop
- Action 3. Publication of a Content Curation Book “Symbiotic Living Best Practice”
Statement

With the rapid development of science and technology, the pool of available knowledge is increasing exponentially while the cycle of knowledge obsolescence is fast accelerating. Universities are attempting educational innovation, but the speed of innovation is struggling to keep up with social changes. Considering this situation, there is a need for a venue to efficiently and flexibly convey the new knowledge that is required in today’s society. With this in mind, following topics are introduced.

Symbiotic Life

As a consequence of global warming, it is expected that by 2020 the average global temperature will rise by 1.5 degrees, causing great ecological confusion as a population of more than 4 hundred million will experience a water shortage and amphibians will become extinct. Hence it is imperative that we become acutely aware of our utilization of resources and of the diversity of ecosystems, and that we make subsequent appropriate changes in our lifestyles. On the other hand, there has been a heightened consciousness of social exclusion and crisis in a society of rapid diversification and democratization, and where materialism and individualism are prevalent. In light of this, there is a desperate need to recognize the importance of social resources and to cultivate a community culture based on social trust and cooperation. Moreover, the open global world and innovations in technology are changing people. They have been increasing the degree of human reliance on technology, and enhancing a sense of crisis from the perceived loss of humanity. Hence it is important to develop new thinking and a strengthened capacity to understand the technological ecosystem experienced by humans, to solve numerous problems, and to progress in a healthy way. Therefore, there is a need to raise awareness to directly face the ecosystem surrounding humans, and to coexist together with them to enhance the value and sanctity of humanity.

Convergence among Academic Fields and with Technology

The information society has broken down the boundaries between diverse fields of study and enabled flexible interaction. New forms of creation are becoming possible. Together with the convergence of the humanities and social sciences, natural science and engineering, medicine, art and design, digital convergence technology as applied to all knowledge areas has led to general digitalization and accelerated ‘smartification’. The emergence of the smart-generation. In the future, artificial intelligence able to form responses based on its own deductions, and emotional technology equipped to understand human emotion and to provide appropriate sensory service, will challenge the role of humans and provide customized services. This will radically change the human life landscape and continually pour out new innovations. There is now a need to establish a wise convergence among academic fields and cutting-edge technology to actively enhance the quality of life.

New Economy

Owing to these characteristics, there will be increased opportunities for new jobs, and a need for a creative workforce able to quickly respond in an entirely different economic ecosystem based on imagination and flexibility utilizing new technology, workforce, and resources. A pioneering spirit and power of execution are needed to break away from the business model of the existing industrial society and to put forth fresh ideas, transforming economic circulation, distribution, and opportunities for participation. Hence, there is a need for a module to strengthen the capabilities of the existing education system.
Week 1. Meet with Leaders in Opening the Future

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 3 (Monday)</td>
<td>Lifestyle Revolution in Future Society</td>
<td>Thomas Frey, Ph.D., Executive Director, The DaVinci Institute, USA</td>
</tr>
<tr>
<td>November 4 (Tuesday)</td>
<td>Healthcare &amp; Design to Cope with Future of Aging Society</td>
<td>Ian Forbes, Ph.D., Professor, University of Technology, Sydney, Australia</td>
</tr>
<tr>
<td>November 5 (Wednesday)</td>
<td>Ecology of Future Job World</td>
<td>Sudong Kim, Ph.D. Team Leader, ICT and Future Planning, Ministry of Science</td>
</tr>
<tr>
<td>November 6 (Thursday)</td>
<td>How to Challenge for Your Future Career</td>
<td>Youngha Ko, President of the Korea Venture Business Association</td>
</tr>
<tr>
<td>November 7 (Friday)</td>
<td>Innovative Approach in Creating Product &amp; Space</td>
<td>Patrick Nadeau, Designer, Professor of ESAD de Reims, France</td>
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</tbody>
</table>

Week 2. Meet with Directing Leaders and Young Pioneers of Symbiotic Entrepreneurship

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>November 10 (Monday)</td>
<td>Transmitting a Pluridisciplinary Approach in the Arts (Subject to Change)</td>
<td>Earlwyn Covington, Professor of Cultural Studies, ESAD de Reims, France</td>
</tr>
<tr>
<td>November 11 (Tuesday)</td>
<td>Challenge with Entrepreneurship to New Social Economy Ecology</td>
<td>Hyukjin Choi, General Director, Korea Social Enterprise Promotion Agency</td>
</tr>
<tr>
<td>November 12 (Wednesday)</td>
<td>Creating Symbiotic Multicultural Business “EcoFemme”</td>
<td>Jinsook Park, Founder, CEO, EcoFemme Community for Migrant Women</td>
</tr>
<tr>
<td>November 13 (Thursday)</td>
<td>Creating Symbiotic Lifestyle Business: “DANO”</td>
<td>Jisoo Lee, Founder, CEO, Diet Note Application, DANO, Inc.</td>
</tr>
</tbody>
</table>
# Action 2. Intensive Interdisciplinary Educational Workshop

**Date**: November 3 (Monday) – 14 (Friday), 3pm – 7pm  
**Place**: Choisoon Hall, Samsungkwan

**Intent**: To provide interdisciplinary workshop of dealing with creative and innovative projects for empowering practical ability to prepare the future. Further, to provide an experiential opportunity for creating through symbiotic, converging and collaborative approach, under the guidance of both international and domestic leading professionals, which are difficult in existing studio classes otherwise. Specifically, in order to form a robust and creative base enough to lead future society, the first week provides workshops of experiencing innovative creation by transmitting multidisciplinary insights, while the second week provides workshop of feeling the important value of symbiotic life.

## Week 1. Transdisciplinary Workshop

<table>
<thead>
<tr>
<th>Date &amp; Day</th>
<th>Topic</th>
<th>Presenter &amp; Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 3 (Monday)</td>
<td>Davinci Coders: A New Professional Career Opportunity</td>
<td>Thomas Frey, Ph.D., Executive Director, The DaVinci Institute, USA</td>
</tr>
<tr>
<td>November 4 (Tuesday)</td>
<td>Design Studio for Creating Alternative Living Space for the Elderly</td>
<td>Ian Forbes, Ph.D., Professor, University of Technology, Sydney, Australia</td>
</tr>
<tr>
<td>November 5 (Wednesday)</td>
<td>Integrating Multidisciplinary knowledge for Creating Future Work Space</td>
<td>Kyungsoon Chung, Design Director, Gensler Architecture &amp; Design, Corp., USA</td>
</tr>
<tr>
<td>November 6 (Thursday)</td>
<td>Transmitting a Pluridisciplinary Approach in the Arts</td>
<td>Earlwyn Covington, Professor of Cultural Studies, ESAD de Reims, France</td>
</tr>
<tr>
<td>November 7 (Friday)</td>
<td>Innovative Green Studio</td>
<td>Patrick Nadeau, Professor of Design, ESAD de Reims, France</td>
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## Week 2. Creative Symbiotic Entrepreneurship Workshop

<table>
<thead>
<tr>
<th>Date &amp; Day</th>
<th>Topic</th>
<th>Presenter &amp; Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 10 (Monday)</td>
<td>Creating Symbiotic Housing Business: “WooZoo”</td>
<td>Junghun Kim, Founder, WooZoo Project OK Co., Ltd.</td>
</tr>
<tr>
<td>November 11 (Tuesday)</td>
<td>Design for the Socially Vulnerable Population with Symbiotic Perspective</td>
<td>Mija Chun, Ph.D., Director of Welfare Community Design Institute</td>
</tr>
<tr>
<td>November 12 (Wednesday)</td>
<td>Globally Leading Symbiotic Business</td>
<td>Youngsook Park, CEO UN Future Forum, Korea</td>
</tr>
<tr>
<td>November 14 (Friday)</td>
<td>Designing &amp; Living with High Technology ‘3D Printer’</td>
<td>Sungkown Choi, Professor of Seoil University</td>
</tr>
</tbody>
</table>
Action 3. Publication of “Symbiotic Living Best Practice”

Date : November 3 (Monday) – 14 (Friday), 3pm – 7pm
Place : Choisoon Hall, Samsungkwan
Intent : The aim of this study is to improve the ability to extract and comprehend innate information as well as explicit information, by analyzing and curating internationally successful case studies in terms of symbiotic living pursued by life science in the future. First, to share an integrated perspective between academic fields in everyday life, case studies that demonstrate the practicality of Symbiotic Living Science & Technology will be selected for various areas, and detailed explanations will be added about how each case study pursues a symbiotic relationship with a natural ecosystem, social ecosystem, and technical ecosystem. These case studies will be selected from various fields to make a multi-disciplinary integrative textbook. This will also be utilized in promoting the idea that content from different fields can be combined or integrated to become a new creation in the future.
Strategy 3.

Venue for New Extension Service

- Statement
- Action 1. Exhibition on Site
- Action 2. Pinterest on the Web
- Action 3. SNS Communication System for Dissemination
Statement

Conventional Extension Service

A practical service provided to the public by the University has been the Cooperative Extension System, a non-formal educational program implemented in the United States designed to help people use research-based knowledge to improve their lives. The service is provided by the state's designated land-grant universities.

In most states the educational offerings are in the areas of agriculture and food, home and family, the environment, community economic development, and youth and 4-H. The National 4-H Headquarters is located within the Families, 4-H, and Nutrition unit of CSREES.

The extension system is collaborating on a new initiative called extension, an Internet-based portal where citizens have 24-hour access to specialized information and education on a wide range of topics. Information is organized into Communities of Practice that include articles, news, events, and frequently asked questions that come from land-grant university faculty and staff experts. It is based on unbiased research and undergoes peer review prior to publication. These days, because technology is making it possible to access the entire Internet anywhere a person goes, thanks to general wifi and cell-tower access, users are actually getting better at and more accustomed to consuming a large amount of content on a consistent basis. Social networks like Pinterest have made it relatively easy to share content in an attractive way through images.

Content Curation as a New Service

Content curation is the process of sorting through the vast amounts of content on the web and presenting it in a meaningful and organized way around a specific theme. The work involves sifting, sorting, arranging, and publishing information. A content curator picks the best content that is important and relevant to share with its community. It is like what a museum curator does to produce an exhibition: They identify the theme, they provide the context, they decide which paintings to hang on the wall, how they should be annotated, and how they should be displayed for the public.

Content curation is not about collecting links or being an information pack rat, it is more about putting them into a context with organization, annotation, and presentation. Content curators provide a customized, vetted selection of the best and most relevant resources on a very specific topic or theme. Therefore, this can be an innovative way of creating a service for general public who can be confused by a vast array of information which might not be reliable. People can search for something different. Hence, custom curated content targeted toward specific individuals. This extension service in this information age provides practical education that people can have trust in. It can help people, businesses, and communities solve problems, develop skills, and build a better future.

A Unique New Extension Service by Yonsei Community

Yonsei Symbiotic Life TECH will be providing the best and carefully selected information on Global Brand, best practice, which empirically evidences successful products, Future Prospects, which will help people realize their goals and aspirations, and New on Current Markets, which just came out and is not tested; these resources will provide content in the areas of what to eat, what to wear, what to use, where to live, how to nurture and care. Through this, people can be assisted in making plans related to work, business, education and other activities.
Action 1. Exhibition on Site

Date: October 7 (Thursday) – November 30 (Sunday)
Place: Samsungkwan

Intent: From successful products in a global society regarding topics from all fields of Life Science, case studies that show the philosophy, vision, and practical applicability of symbiotic living will be selected. By providing these case studies to future leaders, it will be an opportunity to effectively convey high quality content, encourage creativity, and encourage aspirations for specialized jobs in the future. Especially, by enabling natural exposure to various practical academic fields in everyday educational environments, an integrated perspective and thinking between fields will be promoted. From the large amount of information, available, successful case studies that have been verified as actual cases and to be high quality will be selected to increase the educational effect. In addition, the vision for applied sciences will be presented through case studies which realistically and practically demonstrate the academic connection between Symbiotic Living Science & Technology.

Best Practice in **What to Eat** (examples)

- Ecofriendly Food Production System
- A Comprehensively Healthy Designed Food
- A Well Balanced Health Management Program
- A Symbiotic Restaurant Considering Climate Change
- A User Friendly Diet Application Program
- Healthy Food Management System
- A Place of Symbiotic Food and Dining Culture
- A Symbiotic Community Kitchen

Best Practice in **What to Wear** (examples)

- An Outdoor Jacket with Digital Color Technology “Life-Tech”
- Aging Friendly Universal Silver-Wear
- Ergonomically Designed Clothes for Elderly Living in Nursing Home
- Ergonomically Designed Clothes for Disabled Population
- A Digital Wearable Computer for Protecting from Accident
- High Function Hygienic Cloth for Patients
- High Performance Functional Dress for Inclusive Population
- Intelligent Second Skin for Aging Population
**Action 1. Exhibition on Site**

<table>
<thead>
<tr>
<th>What to Use (examples)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Aging Friendly Cellphone with a User Friendly Interface</td>
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<tr>
<td>- An Adoptable Storage System for Mass Customization Service</td>
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<td>- A Universally Designed Visual Communication for Urban Environment</td>
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<td>- A Transparent Urban Kiosk System</td>
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<tr>
<td>- Value Enhancing Street Furniture for Appropriate Regional Context</td>
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<tr>
<td>- An Aesthetically Designed Apparatus for Mobility Support</td>
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<tr>
<td>- A Web Design with Inclusive and Easy Interface</td>
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<tr>
<td>- A Portable Furniture System for Green Design Program</td>
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<table>
<thead>
<tr>
<th>Best Practice in <strong>Where to Live</strong> (examples)</th>
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</thead>
<tbody>
<tr>
<td>- A Socially Integrated Housing in Copenhagen, Denmark</td>
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<tr>
<td>- A Universally Designed Healthy Work Environment</td>
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<tr>
<td>- A Safe Housing Environment for Families with Young Children</td>
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<tr>
<td>- A Customized User Interface of Ubiquitous Home Based on Life-log Data Visualization</td>
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<tr>
<td>- An Uncertain Formal Evolution Towards Emergent Creativity Based on Natural Outlines</td>
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<tr>
<td>- An Energy Efficient Eco Residential Town in Japan</td>
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<td>- A Leading Daylight Enhancing System</td>
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<tr>
<td>- A Leading Inclusive Community Library for All Citizen</td>
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<table>
<thead>
<tr>
<th>Best Practice in <strong>How to Care</strong> (examples)</th>
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</thead>
<tbody>
<tr>
<td>- A Creative and Innovative Childcare Program</td>
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<tr>
<td>- A Family Health and Wellbeing Support System</td>
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<tr>
<td>- A Flexible Children’s Play Things</td>
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<tr>
<td>- A Symbiotic Policy for Family with Different Culture</td>
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<tr>
<td>- An Environmental Friendly Childcare Center</td>
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<tr>
<td>- A Leading Innovative Summer Program for Parent and Children</td>
</tr>
<tr>
<td>- A Contents to Teach Symbiotic Life Value</td>
</tr>
<tr>
<td>- A Development Appropriate Childcare Center</td>
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</tbody>
</table>
Action 2. Pinterest on the Web_Future Prospect

Symbiotic Life TECH
Institute of Symbiotic Life TECH Yonsei Univ. Seoul, South of Korea

www.symbioticlifeitech.org

Get Started 15 Boards 208 Pins 8 Likes Send Profile

2 Followers 5 Following

Global Brands_What to Eat
Symbiotic Life TECH

Global Brands_What to Wear
Symbiotic Life TECH

Global Brands_What to Use
Symbiotic Life TECH

Global Brand_Where to Live
Symbiotic Life TECH

Global Brands_How to Nurture
Symbiotic Life TECH

Future Prospects_What to Eat
Symbiotic Life TECH

Future Prospects_What to Wear
Symbiotic Life TECH

Future Prospects_What to Use
Symbiotic Life TECH

Future Prospects_Where to Live
Symbiotic Life TECH

Future Prospects_How to Nurture
Symbiotic Life TECH

New in Market_What to Eat
Symbiotic Life TECH

New in Market_What to Wear
Symbiotic Life TECH

New in Market_What to Use
Symbiotic Life TECH

New in Market_Where to Live
Symbiotic Life TECH

New in Market_How to Nurture
Symbiotic Life TECH

Future Prospects_Where to Live

Future Prospects_Where to Live

Future Prospects_Where to Live

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Environment

Vincent Callebaut, Flavors Orchard, a Future city farm designed for Kunming, China. A 45 energy positive vibe set on a huge community orchard and food garden. Belgium. 2014

Lilypad, which is a floating City and self-sufficient city designed and modelled by Vincent Callebaut

Ville dépollutants! L'adoption de solutions de dépollution à l'échelle de toutes les villes permet d'aménager des agglomérations verbes. Dépollutions. Une vision du futur

Planned for a network of cycle pathways high above the streets of London have been unveiled by one of the world's most prominent architects. SkyCycle is a 135-mile network of roads that would be constructed above existing tube rail lines to create new cycle routes throughout the capital and has been developed by cycling enthusiast Sir Norman Foster, who designed St Mary Axe, known as 'The Gherkin', and the new Wembley Stadium.

The bicycle highway: Plans unveiled for £200m 'SkyCycle' that lets riders...

A virtual city built entirely in 3D (for VR)

ASIAN CARRD, which is a giant Winged Vertical Farm for New York City

Inhabitat - Sustainable Design Innovation, Eco Architecture, Green Building

THE DRAGONFLY, which is a Giant Winged Vertical Farm for New York City

Planned from enframed.com
Action 2. Pinterest on the Web_Future Prospect
Action 2. Pinterest on the Web_Future Prospect
Action 2. Pinterest on Web_Best Practice
Action 2. Pinterest on Web_Best Practice
Action 3. SNS Communication System for Dissemination
Overview of the Schedule

- Oct., 2014 Schedule
- Nov., 2014 Schedule
### Oct., 2014 Schedule

#### Toward a Big Leap for the Future

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>Oct. 7 (Tue)</td>
<td>09:30</td>
<td>Preconference</td>
</tr>
<tr>
<td></td>
<td>10:00</td>
<td>[Intensive Workshop] Future Prediction Research Methodology</td>
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<tr>
<td>Oct. 8 (Wed)</td>
<td>10:00</td>
<td>Main Conference</td>
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<tr>
<td></td>
<td>10:30</td>
<td>[Opening] Main Conference of SL Science &amp; Technology</td>
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<td></td>
<td>11:00</td>
<td>[Symposium] Big Leap for the Future: HE and Lifestyle Innovation</td>
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<td>11:30</td>
<td>- Opening. Yeunsook Lee</td>
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<td></td>
<td>12:00</td>
<td>- Keynote. Hazel Henderson</td>
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<tr>
<td></td>
<td>12:30</td>
<td>- Speech 1. Ricardo Garcia Mira</td>
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<tr>
<td>Oct. 9 (Thu)</td>
<td>13:00</td>
<td>[College of Human Ecology 50th Anniversary Ceremony]</td>
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<td></td>
<td>13:30</td>
<td>- Dean’s Welcome Address</td>
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<tr>
<td></td>
<td>15:00</td>
<td>[Discussion] Where We are in &amp; Heading for Symbiotic Living</td>
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<td></td>
<td>15:30</td>
<td>- Symbiotic Living Environment, and Creative Fusion Art &amp; Culture, 8AM-9PM</td>
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<tr>
<td>Oct. 10 (Fri)</td>
<td>16:00</td>
<td>Main Conference</td>
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<tr>
<td></td>
<td>16:30</td>
<td>[Session 1] Evolution of Symbiosis for Environmental Sustainability</td>
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<td>17:00</td>
<td>- Speech 1. David Richardson</td>
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<td></td>
<td>17:30</td>
<td>- Speech 2. Andrew Seidel</td>
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<td></td>
<td>18:00</td>
<td>- Speech 3. Ricardo Garcia Mira</td>
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<td>- Speech 4. Ibon Zugasti</td>
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- **Exhibitions on Site:** Oct. 6 to Nov. 14  
  Samsung Hall 1st - 7th Fl. Yonsei Univ. Seoul, Korea  
- **Pinterest on the Web:** [www.pinterest.com/SymbioticLifeTECH](http://www.pinterest.com/SymbioticLifeTECH)
Nov., 2014 Schedule

Exhibitions on Site: Oct. 6 to Nov. 14
Samsung Hall 1st - 7th Fl. Yonsei Univ. Seoul, Korea

Pinterest on the Web: www.pinterest.com/SymbioticLifeTECH

Educational Program

Nov. 3 (Mon) ~ Nov. 7 (Fri)  Nov. 10 (Mon) ~ Nov. 14 (Fri)

12:00

[Global Future Leader’s Lunch Forum 1]
- Speech 1. on Nov. 3 (Mon) Thomas Frey
- Speech 2. on Nov. 4 (Tue) Ian Forbes
- Speech 3. on Nov. 5 (Wed) Sudong Kim
- Speech 4. on Nov. 6 (Thu) Youngha Ko
- Speech 5. on Nov. 7 (Fri) Patrick Nadeau

[Global Future Leader’s Lunch Forum 2]
- Speech 1. on Nov. 10 (Mon) Earlwyn Covington
- Speech 2. on Nov. 11 (Tue) Hyukjin Choi
- Speech 3. on Nov. 12 (Wed) Jinsook Park
- Speech 4. on Nov. 13 (Thu) Jisoo Lee
- Speech 5. on Nov. 14 (Fri) Jungseop Lee

14:00

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- Speech 5. on Nov. 14 (Fri) Jungseop Lee

15:00

[Symbiotic Intensive Workshop 1]
Symbiotic Integrations for Creative Idea Mining
- Speech 1. on Nov. 3 (Mon) Thomas Frey
- Speech 2. on Nov. 4 (Tue) Ian Forbes
- Speech 3. on Nov. 5 (Wed) Kyungsoon Chung
- Speech 4. on Nov. 6 (Thu) Earlwyn Covington
- Speech 5. on Nov. 7 (Fri) Patrick Nadeau

[Symbiotic Intensive Workshop 2]
Symbiotic Living Revolutions with Cutting-Edge Technology
- Speech 1. on Nov. 10 (Mon) Junghun Kim
- Speech 2. on Nov. 11 (Tue) Mija Chun
- Speech 3. on Nov. 12 (Wed) Youngsook Park
- Speech 4. on Nov. 13 (Thu) Jinee Hong
- Speech 5. on Nov. 14 (Fri) Sungkown Choi

19:00
Based on philosophy & mission of Human Ecology, the Institute of Symbiotic Life TECH pursues more holistic integrative knowledge system, expanding its collaborative networks, eventually to make people feel & experience the real quality of human life for future rapidly coming toward us.