

The 5th

EWHA-LUCE INTERNATIONAL SEMINAR 2019

이화-루스국제세미나 2019.6.26 Wed - 7.13 Sat

PROGRAM BOOK

18 Days of Extraordinary Adventures
with Women Scientists of the Future

Ewha-Luce International Seminar for Women Graduate Students in STEM from the U.S. and Asia

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**KIM Heisook**

President,
Ewha Womans University

A handwritten signature in black ink, appearing to read '김혜숙' (Kim Heisook).

As the president of Ewha Womans University, it is a great joy to give congratulatory remarks for the ELIS 2019 Program Book.

Ewha-Luce International Seminar began as a collaborative project between Ewha Womans University and the Henry Luce Foundation for the latter's 75th anniversary, and is now entering its fifth year. I am proud that Ewha has had the honor of hosting this seminar again this year; Ewha Womans University has been at the forefront of empowering women as a global hub for women's education and ELIS lies at the heart of our mission.

In these past five years, ELIS has gathered some 130 outstanding women graduate students, and invited them to a unique 18-day long program designed to foster women leaders in STEM fields for the next generation. From the beginning of ELIS starting in 2015, we have seen promising women graduate students cultivating global networks with esteemed academics, worldwide role models, and their peers in STEM, and we will build on these experiences to better prepare the future women leaders of STEM.

As you know, higher education, and indeed the world, is now entering a new era of the fourth industrial revolution. New and unseen challenges are arising out of this tectonic change. I strongly believe educating women in science and technology will most effectively contribute to our goal of preparing our students for the coming future. Such is the reason for my highest regard for the ELIS program.

I would like to take this opportunity to express my deepest gratitude to the Henry Luce Foundation for sharing the mission and vision of fostering women in STEM with Ewha. The continuous support of the Henry Luce Foundation will be integral to change our society for the better.

To finish, I would like to give my warmest appreciation to the 26 participants of ELIS 2019 for taking part in this special event. Also, I give my sincerest thanks to the director and all the staff members of Ewha Institute for Leadership Development for your efforts. It is my hope that ELIS will come to provide opportunities to many more participants to expand their horizon, and become leaders of their respective fields, and beyond.

Thank you all very much.

**Michael GILLIGAN**

President,
Henry Luce Foundation

A handwritten signature in black ink that reads "Michael Gilligan". The signature is written in a cursive, flowing style.

I am delighted to join President Haesook Kim in congratulating the Ewha Institute for Leadership Development in publishing the program book commemorating ELIS 2019.

This is the 5th year that this seminar has gathered, bringing together women who are graduate students in the STEM disciplines from East Asian countries, particularly from Korea, and with women who traveled from the United States. Many of the participants from the United States are representatives of Clare Booth Luce Program, the Luce Foundation's program for the past that advances the careers of women in the STEM disciplines. We are honored to support their work and we are delighted to join Ewha in providing the seminar.

The goal of the seminar is a single one, and that is to offer women who are in the early stage of their career in the STEM disciplines an opportunity to build international relationships, and to think about themselves as leaders in their field. The past years have provided a wealth of experience and this year, once again, Ewha builds on its successful program with the Luce Foundation's support. From the outset, the Luce Foundation had an interest in advancing international understanding, and we think that is a critical issue today in the STEM disciplines.

We are delighted with the success of the seminar this year. We are grateful for our cooperation with Ewha. We look forward to its continuing success next year, and we send very best wishes from all of our colleagues, board, and staff of the Luce Foundation.

PROJECT BRIEF

The Ewha-Luce International Seminar (ELIS) : Expanding Horizons

ELIS is an intensive leadership program which brings together highly talented female graduate students in the fields of science, technology, engineering and mathematics (STEM) from the US and Asia. With the vision of cultivating the next generation of global women leaders in these fields, the program has been held annually in South Korea since 2015, carefully prepared by Ewha Womans University and Henry Luce Foundation.

In 2019, 27 female graduate students enjoyed this opportunity to expand networks within the scientific community, experience cultural programs and establish a global vision as scientists, paving way for future generations of women scientists and engineers.

ELIS 2019

Date_ June 26 (Wed) ~ July 13 (Sat) 2019

Venue_ Ewha Womans University Campus

Participants_ 27 in total (12 Americans / 15 Asians (10 Koreans and 5 other Asians))

Ewha Womans University

Founded in 1886, Ewha Womans University has supported women in the STEM disciplines throughout its history. Ewha, an institution which started with a single student 133 years ago, has grown to be the world's largest and most comprehensive university for women today. At the forefront of attaining gender equality, Ewha is dedicated to supporting the international community of women in the STEM fields with the efforts for ELIS.

Henry Luce Foundation

Established in 1936 by Henry R. Luce, the co-founder and editor-in-chief of Time. Inc., the Henry Luce Foundation builds upon the vision to broaden knowledge and encourage the highest standards of leadership. The foundation has devoted to fostering young STEM women with the Clare Boothe Luce Program (CBL) since 1989, the single most significant source of private support for women in STEM fields. As part of the Anniversary Initiative, the foundation awarded Ewha with a grant to cultivate the next generation of global women leaders in STEM.

WHAT IS SPECIAL ABOUT ELIS?

The Only Seminar in the World Dedicated to Empowering Women Postgraduate Students in STEM

ELIS is a unique seminar specially crafted for women graduate students in STEM from across the globe. It provides focused training in practical leadership skills that women in STEM may otherwise lack, such as network development and effective presentation techniques. ELIS aims to empower women in STEM to become leaders by exploring issues of gender discrimination in STEM and by inspiring them to overcome a range of challenges.

An Active Initiative to Foster Women Leaders in STEM

ELIS is an active attempt to patch the 'leaky pipeline' in science and technology fields that are still outnumbered by men. This unique seminar empowers women graduate students as part of its mission to foster broader change and develop female leaders in the STEM fields.

Gaining Life-long Support and International Partners

ELIS is not just a seminar, but an active process of creating allies and building a strong network among all the participants: future women leaders in science, keynote speakers, lecturers, instructors, ELIS staff, and others who share a vision for women leadership in science and technology.

Spending three weeks with other promising women greatly empowers young female scientists who face a range of barriers, such as male-dominated laboratory atmosphere. ELIS Participants build supportive friendships and find life-long academic partners who share a common passion for research.

Nurturing Leaders with Multicultural Perspectives for a Rapidly-Changing World

Participants are exposed to a number of challenges while learning to appreciate different cultures in the seminar in Korea with participants from different nations and backgrounds. Adjusting to the challenges that arise from different cultural backgrounds help our women leaders develop the global perspective and multi-cultural understanding that form a vital component of leadership today.

Reciprocal Learning through Proactive Participation

ELIS enhances leadership capacity by encouraging proactive participation through expanded activities, discussions, and workshops in every program. Such reciprocal learning not only helps participants understand the related lessons better but also develops practical leadership skills through hands-on experience.



PROGRAM



GLOBAL LEADERSHIP

EMPOWERMENT

NETWORKING

VISION

GLOBAL LEADERSHIP



Opening Ceremony

Opening Ceremony is the official initiation ceremony for Ewha-Luce International Seminar (ELIS). The participants and guests were provided with an overview of the seminar and were introduced to the latest developments and research on gender and women leadership. The keynote speaker for ELIS 2019 was Dr. Maria KLAWE, the president of Harvey Mudd College and a renowned mathematician and computer scientist. In her talk, 'Increasing participation of women in tech careers', she spoke about the effectiveness of various measures to improve STEM education structure and fix the 'leaky pipeline' to increase women's participation at all levels of the tech industry. Dr. Klawe placed an emphasis on focusing on undergraduate level to get more women interested in STEM field due to the higher retention rate at that level, and the progress Harvey Mudd College made on that front during her tenure as the president.

▼ Opening Ceremony Group Photo





▲ **KIM Heisook, President of Ewha** giving welcoming remarks



▲ **James CHOI, Ambassador, Australian Embassy in South Korea** giving congratulatory remarks



◀ **Maria KLAWE** giving a keynote speech on Increasing the Participation of Women in Tech Careers

▼ **Opening Ceremony**



ELIS Small Seminar

Small Seminar was an opportunity for the participants to learn about each other. Each participant gave a short presentation about herself and her field of study. The presentations were followed by a short quiz to see who learnt most about their fellow participants.

- ▶ **ELIS Small Seminar** A participant introducing herself and her research



Campus Tour : Ewha's Leadership

The tour was to familiarize the participants with the campus, to give a brief introduction of Ewha Womans University and its role in fostering women leadership in Korea. The participants were taken on a docent tour of Ewha Archive. After the archival tour, one of the participants from Ewha, CHOI Seoyoung, introduced the Atmospheric Environmental Chemistry Lab where she works to other participants.



- ▶ **Campus Tour** Participants on a guided tour of Ewha



- ▶ **Campus Tour** CHOI Seoyoung introducing her lab



Women's Leadership

This session explored what it meant to be a woman leader in a society where the traits of leadership are yet masculinized and it broadened our definition of leadership so that the participants could develop their own style of leadership. Prof. CHO Sung-Nam, the director of EILD, talked about how our gender might influence our leadership style, and how the valorization of male-centered leadership styles continues to have negative societal consequences. She spoke of a need to embrace the 'feminine concept' of leadership to better meet the challenges of the twenty-first century. The lecture was followed by a workshop where the participants were asked to find leadership qualities in other participants and discuss their concept of leadership.

- ▶ **Women's Leadership:** Director CHO Sung-Nam delivering a lecture on leadership



- ▼ **Women's Leadership** Participants sharing compliments on post-its





Cross-Cultural Communication

This workshop aimed to learn about cross-cultural communication skills and how to overcome barriers between participants from different cultural backgrounds. The workshop started out with a lecture on the differences between Western and Eastern cultures followed by a group discussion, and activities providing opportunities for participants to share their own experiences and discuss the ways to put their knowledge to test in real life.



Cross-Cultural Communication

Group activity



Conflict Management

This session aimed to experience the participants with details of conflict management. The process of conflict management was broken down into four parts - communication skills, friendship skills, negotiation skills, and documentation skills. The participants explored how those skills would be best utilized to bring about a satisfying resolution to a conflict.



Conflict Management Group discussion



Effective Presentation : Dry Run Workshop

Effective Presentation: Dry Run Workshop provided an opportunity for participants to hone their presentation skills in preparation for their performance at STC. First, the instructors carried out a panel discussion where they shared their tips for public speaking with a Q&A session. Then, the participants rehearsed their own presentations for STC with one panelist leading each group. The panelists and their peers shared advice on how to polish their initial presentation.



Effective Presentation: Dry Run Workshop
Panel discussion



Effective Presentation: Dry Run Workshop A panelist sharing her presentation tips at panel discussion



Effective Presentation: Dry Run Workshop
Group coaching



Effective Presentation: Dry Run Workshop
STC presentation rehearsal

Dialogue with Women Scientist Leaders

Dialogue with Women Scientist Leaders session attempted to discuss leadership qualities based on the experiences of three established women scientists: Dr. KIM Jung Sun, the vice president of Dongseo University, Dr. KIM Jeongmi, CEO and Founder of VetAll, and Dr. Maria KLAWE, president of Harvey Mudd College and this year's keynote speaker. These three speakers discussed various perspectives on the experiences of women leadership in Korea and the US, as well as the different experiences of STEM industry and academia. Also everyday issues and conflict with their peers or at their university were discussed and how to navigate male-dominated spaces while asserting themselves.



◀ **Dialogue with Women Scientist Leaders** Dr. KIM Jung Sun, Dr. KIM Jeongmi and Dr. Maria KLAWE sharing their stories with participants



▲ **Dialogue with Women Scientist Leaders** Panel Discussion



▲ **Dialogue with Women Scientist Leaders** A participant asking a question to the speakers



▲ **Dialogue with Women Scientist Leaders** Participants in discussion with Dr. KIM Jeongmi



▲ **Dialogue with Women Scientist Leaders** Group photo with the speakers

EMPOWERMENT



Group Talk : Un-conferencing I & II

Group Talk: Un-Conferencing aimed to provide opportunity where the participants could discuss the gender issues and possible solutions to improve gender imbalance. The session started out with brief presentation raising issues about gender bias, which initiated the conversation including global issues of gender biases on the macro level and everyday life. As the result of their discussion, the participants came up with a short role-play skit exploring the topic, and showcased the skit.



▲ **Group Talk: Un-conferencing**
Participants sharing their opinions on a whiteboard



▲ **Group Talk: Un-conferencing**
Participants discussing their ideas



▲ **Group Talk: Un-conferencing**
Participants practising their skit



▲ **Group Talk: Un-conferencing**
Participants delivering their skit

ELIS Science Talk Concert (STC)

STC was a brand new program of ELIS 2019 designed to train participants to deliver their exciting research ideas to the wider public. As the successor to the Open Forum in the previous years, STC is a reaffirmation that science is rooted in human society, inviting a wider public. Participants' talks in the STC were based on four themes: 1. Women's Leadership in Science; 2. Nature & Science; 3. Science, Technology & Society; 4. Science Unlocking Future. Through these talks and performance, STC endeavored to present a new mass culture of enjoying science with fun and joy.

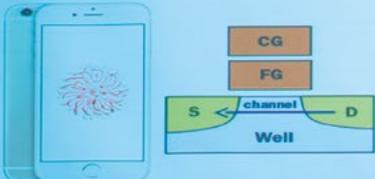
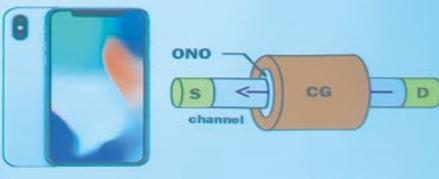
- ▶ **Science Talk Concert Dr. SEONG Yerang** opening the concert



- ▶ **Science Talk Concert Dr. Carlotta ARTHUR** explaining the achievements of the Clare Boothe Luce Foundation and where it will go next



iPhone 6 vs X

iPhone 6	iPhone X
	
<p>MIN : 16GB</p> <p>MAX : 64GB</p>	<p>MIN : 64GB</p> <p>MAX : 256GB</p>

Semiconductor Materials Laboratory

EXPANDING HORIZONS 지평넓히기

SCIENCE TALK CONCERT







 Science Talk Concert Talks by ELIS 2019 Participants



▲ Science Talk Concert STC Wrap-up Discussion



STC Poster Presentation

Prior to individual talks, the participants presented their fields of research via poster presentations, an opportunity to show their fields of research on an interpersonal level. The poster presentation also contributed to expanding the network of participants through communicating with diverse group from professionals to undergraduate students.



▲ STC Poster Presentation Participants sharing their research with one another



▲ STC Poster Presentation A participant explaining her research to an attendant



Self-defense with Taekwondo

Self-Defense with Taekwondo activity was designed to empower participants through physical exercise. Taekwondo is a martial art highly accessible for beginners, and can be practiced according to one's physical ability, and each step motivates and brings out strong self-confidence in the participants.



▲ **Self-defence with Taekwondo**
Participants learning standard Taekwondo postures



▶ **Self-defence with Taekwondo**
Participants practicing their kicks

NETWORKING



Welcome Reception

Welcome Reception officially announced and celebrated the initiation of the Ewha-Luce International Seminar 2019. The welcoming remarks by Professor Cho Sung-Nam, the Director of EILD, and Dr. Maria KLAWE, keynote speaker of the Opening Ceremony, opened the reception. A welcome banquet was followed where the participants got to socialize with one another in a relaxed atmosphere.



▲ **Welcome Reception** Director CHO Sung-Nam giving welcoming remarks



▲ **Welcome Reception** Participants conversing with Dr. Maria KLAWE

▼ **Welcome Reception** Participants during ice-breaking activities

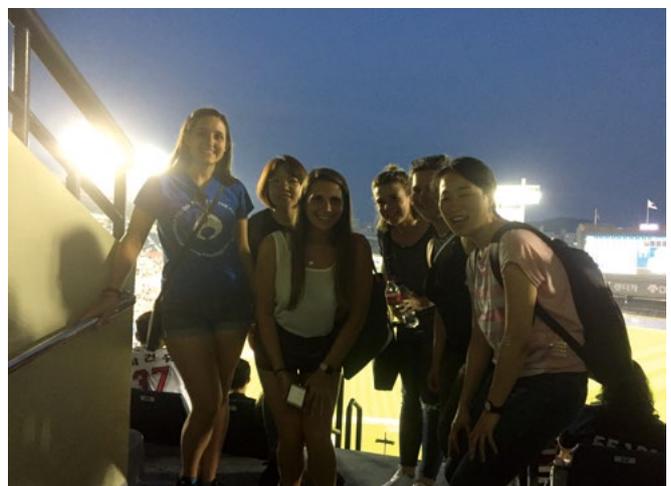


Experiencing Local Life of Seoul

Experiencing Local Life of Seoul was an opportunity for the overseas participants to explore the vibrant capital of Korea with Korean participants. The various activities such as visiting modern art museum, exploring advanced technology through VR café, going on a trip to Korean folk village, making Korean food together and going to a baseball match were included.

▶ Experiencing Local Life of Seoul

Participants exploring the city





DMZ Tour

The visit to the DMZ (Demilitarized Zone) gave participants a chance to reflect on war and peace by being at the border of an only divided nation in the world. The tour included a trip to Imjingak, DMZ theater and exhibition followed by the visit to the 3rd Infiltration Tunnel, and Dorasan Station, where a sign that says “Not the last station from the South, but the first station toward the North.”



▶ **Cultural Visit to DMZ** Participants touring the Third Tunnel of Aggression



▶ **Cultural Visit to DMZ** Dorasan Station, a railway station that used to connect North Korea and South Korea



Cultural Visit to Jeju

The four-day trip was a chance to relax and enjoy Jeju island, the cultural treasure trove of Korea. Participants gained refreshment and enjoyment by visiting many scenic beauties of Jeju island and exploring rural part of Korea.

The theme Haenyeo, with their independent spirit, iron will and determination, the head of households as well as representatives of the semi-matriarchal family structure of Jeju was also carried out this year. By visiting museum of Haenyeo, participants expanded their understandings on women through experiencing different types of women's culture and heritage.

Other trip included the trip to Jeongbang Waterfall, a cliffside waterfall considered one of the ten greatest scenic wonders of Jeju, and the trip to Ecological Excursion to Gotjawal, one of the most diverse ecosystems in Korea. The participants had a walk to the ecological observation trail, to one of the mountain peaks(Oreum). Also participants had a visit to Dongmun traditional market as for their final course in Jeju.



⤴ ⤵ Cultural Visit to Jeju
Haenyeo Museum

▼ Cultural Visit to Jeju



K-Culture

: Experiencing 'Pungmul'

Pungmul springs from a traditional Korean folk music, a whirlwind of movement combining drumming, singing, and dancing into a lively performance. Members of Pungmul club from Ewha Womans University led the session, showed the participants the tradition of Pungmul in Korea as well as organized first hand experience on some of the Korean percussion instruments, such as Janggu, Buk, and Sogo.

- ▶ ▼ **K-Culture: Experiencing 'Pungmul'** Participants trying their hands on traditional Korean instruments



Korean Calligraphy

In this program, the participants learned the basis of Korean alphabet (Hangeul), practiced writing their names in Hangeul Calligraphy. They learned the principles and creation of Hangeul, its constructive structure and enjoyed the beauty of Korean calligraphy by actually writing Hangeul with ink on Korean papers.

- ▶ **Korean Calligraphy Overseas** participants learning how to write in Korean



- ▼ **Korean Calligraphy** Participants displaying their names written in Korean





Farewell Dinner

Farewell Dinner was held to congratulate and celebrate the end of the successful ELIS 2019. The dinner was followed by a talent show organized and performed by the participants, and the staff members joined in with a performance of their own to celebrate the end of ELIS 2019!

▶ ▼ Farewell dinner & Talent show Participants' performances at Talent Show



VISION



Science & Society

Science & Society aimed to broaden the vision and interests of young scientists. The keynote speaker, Prof. JANG Yikweon, a professor of Life Science and a director of the Natural History Museum at Ewha Womans University, introduced the 'Earth Loving Explorers', a citizen science group exploring nature in everyday lives and the research he undertakes in collaboration with the citizen science group. The highlight of the event was participants' talk concert. ELIS participants gave an individual talk on four different themes-(1) Women Leadership in Science, (2) Nature & Science, (3) Science, Technology & Society, (4) Science Unlocking Future.



▲ **Science & Society** Prof. JANG Yikweon giving a talk on citizen science and the 'Earth Loving Explorers' project



▲ **Science & Society** Panel Discussion



▲ **Science & Society** A participant asking a question (Left) and Discussion (Right)



STC Special Performance & Talk

In addition to the participants' talks, there was a special lecture/performance by Prof. YEO Woon Seung, a professor of Fusion Media Arts at Ewha Womans University. The lecture was entitled 'The Sacred Trinity of Eclectic Musicianship'. His musical performance on bass was visualized on screen as digital signal processing, a novel way to experience music.

▼ STC Special Performance & Talk Prof. YEO Woon Seung giving a lecture on eclectic music



▲ STC Special Performance & Talk A participant giving a performance for the audience



Wrapping-up ELIS

In Wrapping-up ELIS, participants traced back their three-week journey with an activity called 'Here & Now' where the participants wrote what they had learned and had experienced through ELIS. Then, they reflected on their experiences as a group as well as an individual and how they grew as leaders through ELIS, and also what the whole experience meant to them.

▼ Wrapping-up ELIS Participants charting their paths up to end of ELIS



▲ Wrapping-up ELIS Participants discussing their time at ELIS



Action Plan

Based on the reflections during Wrapping-up ELIS, participants discussed the actions they would take in order to change their life, designing their personal roadmap of detailing where they would like to be in the course of their career and life.



- ▶ **Action Plan** Participants charting their paths up to end of ELIS



Commencement Ceremony

Commencement Ceremony officially closed the Ewha-Luce International Seminar 2019. It was a time to reflect and reward each other, and began looking back on 18 days with a video showing 'The Journey with ELIS 2019'. The participants received their certificates and congratulations for their successful completion of the programs.



- ▲ **Commencement Ceremony** Revealing secret friends



▲ Commencement Ceremony Jeju Cultural Visit Photo Awards



▲ Commencement Ceremony ELIS 2019 representatives giving their closing speech (Left) and certification ceremony (Right)



▲ Commencement Ceremony A congratulatory performance by Cho kisook New Ballet Company

PARTICIPANTS OF ELIS 2019 & THEIR EXPERIENCE IN ELIS





Elle M. BARNES

Biology | Ph.D.
Fordham University

It's an amazing network of women that support each other - it's a very rare opportunity to have in STEM, the one that I really cherish. And then of course the positive reinforcement of everything I thought about what it means to be a woman leader in STEM. But hearing it from other people, that I haven't been wrong this whole time and that even though the path is really hard sometimes, it's worth going down and soon there will be lots of us on the path together. That's really exciting and something I'm going to take away.



Breana R. CAPPUCILLI

Mechanical Engineering | Master-Ph.D
Purdue University

I feel like I'm getting that lift, getting that encouragement, feeling more confident in myself, which then has an impact on how I communicate with people, how I approach new opportunities, how I feel comfortable being a leader. So I don't know how the final takeaway is going to look like, but I think it's just going to be a lift.



Brittani L. CARROLL

Electrical and Computer Engineering | Ph.D.
Duke University

I think the networking, in general, is nice and knowing that I have those people around me in tears wherever if I need to vent, I can, because going to male lab mates or my boyfriend or my mom, they just don't understand me at times. So that is very nice, too and I did learn a lot about being a leader and stepping up. And I do have a lot of stuff to take away from ELIS.



CHOI Seoyoung

Environmental Science | MSc
Ewha Womans University

I was able to become such good friends with other participants from culturally diverse backgrounds. After participating in ELIS, I wanted to be a leader of a STEM women's community by encouraging other students to also join ELIS, and the goal of becoming a good leader gave me a motivation to study harder.



Tiffany L. CRAWFORD

Analytical Chemistry | Ph.D.
University of North Carolina at Chapel Hill

Before, I wasn't sure exactly what it was like having leadership because I don't usually think of myself as having traditional leadership qualities of taking charge and extroverted. But by ELIS program which let us know about different kinds of leadership, I recognized I can potentially become, maybe a professor or have a leadership position and implement some of the changes that we talked about here.



Erica E. EGGLETON

Chemical Engineering | Ph.D.
University of Washington

ELIS encouraged me a lot to keep going and it was really helpful to be surrounded by a group of people that believe in me. I didn't imagine it would be as close as it turned out so that was a really pleasant surprise. By the things I learned from all of that, now I have a way better understanding of how you actually learn those skills of becoming leaders and turn out to be a better leader.



Sheena Anne H. GARCIA

Chemical and Biological Engineering | Ph.D.
The Hong Kong University of Science and Technology

It is amazing how in a span of eighteen days, they were able to help us build some confidence and share their experiences with us- I mean the guest speakers- their experiences about leadership. And being able to hear not only that they were successful but also that they've also experienced those hardships made us connected to them. Because we also experienced those kinds of hardships in our life and it gives us encouragement to stand up for ourselves and be more motivated in speaking for women in STEM.



HAHM Sung Eun

Mathematics | MSc
Seoul National University

Actually I have never thought about leadership, especially women leadership, and was not sure whether I could become a good mathematician. But ELIS made me learn a lot about women leadership and believe that I can attain more confidence. Challenges from ELIS, searching about issues and discussing with friends from various countries, expanded my horizons.



Natalie M. HALAVICK

Mathematics | Ph.D.
Purdue University

Through collaboration between the Asian participants, and the US participants, I've learned so much during ELIS. This is above and beyond anything else I've ever learned from. And even with everyone being from different countries, and different parts of the US, we are still experiencing some of the same things, understand what it means to be a woman in STEM, but we also again have our own, separate experiences that we can learn constantly from everyone else here.



HAN Jisu

Materials Science and Engineering | Master-Ph.D
Seoul National University

I really liked getting to know other people who study in the same academic discipline as mine, and STC made me realize that there are many passionate female STEM graduate students who are studying in so many different fields. I also liked the whole process of becoming friends with ELIS participants.



HU Jingwen

Ecology | Ph.D.
Wuhan University

The programs taught us how to tolerate different opinions of others from different culture. We can have different opinions on the same issues. Now I came to understand and accept these differences.



Eleni P. HUGHES

Physics | Master-Ph.D
Georgetown University

It's always empowering to hear women who have similar backgrounds as you, and knowing that there is a community of female scientists out there. Anytime I do something like this, I feel refreshed going back into my work and I feel like I'm not alone.



JEON Chaeyeon

Physics | MSc
Ewha Womans University

I think what we, ELIS participants share is that we all feel there is an unsolved social issue regarding women scientists in STEM field which needs to be addressed, and that's what made us all come to ELIS. And I'm really happy that during ELIS, we could actively discuss the issue and express our thoughts, and get to know how others feel about it.



Margaret C. JOHNSTON

Physics | MSc
Creighton University

I think ELIS has definitely accelerated my development. I think that even if I hadn't gotten into ELIS, I would still end up somewhere in academia, I would still try to be an advocate for the female student that I have beneath me, but being in ELIS has made me think about it more. I've already thought about the hard stuff so that I have a plan to implement later, instead of trying to do the mentoring, and figuring out what would be best for the students, and figure out a research position. I've got one thing settled so that it's going to be easier in the future.



Julie JUNG

Biology | Master-Ph.D
Boston University

ELIS made us become friends, facilitating friendship and long lasting relationships, and potential collaborations among all of us. Having time with other participants made me realize that I can relate closely to others of such different backgrounds.



JUNG Hyojin

Mathematics | Ph.D.

Seoul National University

I really liked the programs in ELIS because we could face the problem, solve it, and express it. Not just get angry but learn how to persuade other people and make them understand, all these are important points in solving a problem.



KIM Dasol

Pharmacy | MSc

Ewha Womans University

First thing is confidence, from STC. And second is friends from different countries. I think ELIS is a good opportunity to meet, and to share the feelings that we get when we study STEM as women and the difficulties we encounter so I want to share with everyone from different countries and overcome difficulties.



KIM Minnkyung

Statistics | MSc

Ewha Womans University

I think through ELIS, we were empowered to speak up and speak out for what we like to do. It was really empowering that we have friends who face the same situation and are willing to break the social stereotypes. And we will succeed. Also meeting the mentors and speakers who really were dedicated to empowering women students in STEM was truly a gifted time for us.



KIM Sunwoo

Physics | MSc

Ewha Womans University

Through ELIS programs, I found out that although each ELIS participant has studied in a different field and lived in different countries, we all share common experience. And I liked that during ELIS we could discuss and think about solutions for these issues together.



Ada J. KWONG

Chemistry | Ph.D.

Northwestern University

Before coming to ELIS my career choice was to go into the pharmacy industry but now that I've come abroad for the first time, I think now abroad is more of an option. I also learned a lot from giving and receiving feedback to and from others.



Danielle M. LEMA

Biology | Ph.D.

Fordham University

I think programs in ELIS really allowed us to connect with one another more powerfully because we were actually discussing the things that are personal to us, and how they are not just our own problems but everyone has these things in common and how we fix the things together and how we support ourselves. And I also really enjoyed the cultural activities.



MURUGAIYA Ramashini

Systems Engineering | Ph.D.
Universiti Brunei Darussalam

Now after going through ELIS, I think I have confidence to go to any country and survive there. Also, when I watched how ELIS participants put in so much efforts to the program and achieved good results, it has really motivated me to work hard on my research and my work. So these are the things I got from ELIS as a leader. I think it will be helpful for me and for the future to go forward.



PARK Suhyeon

Nano-scale Semiconductor Engineering |
Master-Ph.D
Hanyang University

I feel now having a leadership is not as difficult as I thought. I can't speak definitely and exactly what women leadership is, but I feel being the leader is finding directions to my future. I can imagine myself being confident in my research field, and being able to speak to my under-juniors about my research field, and leading them to move forward.



SUN Ting

Electronic and Computer Engineering | Ph.D.
The Hong Kong University of Science and Technology

I actually learnt a lot from ELIS on how to communicate, how to be caring and learnt how to organize very different aspects, not just as an engineer or about machines. Exploring the human side, communication and friendship was what I have gained during ELIS. How to organize this to happen was important. I think ELIS was really inspiring for us, engineering students.



SUZUKI Hikaru

Mathematics | MSc
Nara Women's University

Before attending ELIS program, I tended to spend time with friends, teachers or family, in a comfort zone of sorts. But after getting out of my comfort zone, I feel I can do more difficult things with the help of others. Also through ELIS, I could have more time to think about issues especially on situation or environment in STEM field which I could never have known if I hadn't come here. I regained confidence and motivation thanks to others' kindness and support.



Jill B. WILLIAMSON

Chemistry | Ph.D.
University of North Carolina at Chapel Hill

I made some amazing friends that will live across the world from me. And I think that it feels so good to know that there are like-minded individuals across the whole world. We can contact each other because now we're very close friends. Having love for Korean culture was very special about ELIS.



KWON Yurim

Nano-scale Semiconductor Engineering | MEng
Hanyang University

After ELIS, I was really surprised at how many women are in STEM fields and how they love their fields, what their jobs are and what they are doing now. It was great time for me to think about myself and my inner-self. After finishing this program, I will spend some time thinking about my dream.

PLENARY & SPECIAL TALKS





by Maria KLAWE *_ President, Harvey Mudd College*

“TWISTS AND TURNS IN MY CAREER”

– DIALOGUE WITH WOMEN SCIENTIST LEADERS

This talk describes some of the significant experiences and decisions that shaped my career as one that bridged math and computer science, science and engineering, and industry and academia. It also covers why I became so passionate about making the culture of science and engineering welcoming to all, independent of gender or race, and some of the insights I have gained on working on this issue.

“INCREASING THE PARTICIPATION OF WOMEN IN TECH CAREERS”

– OPENING KEYNOTE

Over the past fifteen years the participation of females in the tech industry has declined rather than advanced. This is unfortunate for young women because of the incredible career opportunities, for the tech industry because of the loss of incoming talent, and for society because of the loss of diversity of perspective among tech teams. I will talk about the reasons why women tend not to major in computer technology fields and how Harvey Mudd College dramatically increased the number of females majoring in computer science from 15% of the majors to 50% and how similar approaches can help in industry as well as universities.

Maria KLAWE Maria KLAWE became Harvey Mudd College's fifth president in 2006. She joined HMC from Princeton University after serving 14 years at the University of British Columbia. Prior to UBC, KLAWE spent eight years with IBM Research in California and two years at the University of Toronto. She received her PhD (1977) and BSc (1973) in mathematics from the University of Alberta. In addition to numerous other commitments, Klawe is a member of the boards of the American Association for the Advancement of Science, the nonprofits Math for America and EdReports.org and is a fellow of the American Academy of Arts & Sciences.

Education

- B.Sc., Mathematics, University of Alberta, 1973
- Ph.D., Mathematics, University of Alberta, 1977
- Graduate Studies, Computer Science, University of Toronto, 1979

Selected Professional Experience, Publications, Awards and Honors, and Current Interest

- 2017 recipient of the Academic Leadership Award from the Carnegie Corporation of New York
- No. 17 on Fortune's 2014 list of the World's 50 Greatest Leaders
- KLAWE is a North American expert on diversity in science, technology, engineering and mathematics and on gender and gaming.
- Recipient of numerous honorary doctorates, from such institutions as University of Toronto, McGill University, and the University of British Columbia, among others.

“CITIZEN SCIENCE : RECONNECTING PEOPLE TO THE NATURAL WORLD”

— SCIENCE & SOCIETY

by **JANG Yikweon** _ *Department of Life Science, Director of Natural History Museum, Ewha Womans University*



Since 2012 I have been running citizen science projects, primarily to understand the causes of population decline in an endangered treefrog species in Korea. The citizen science approach has been very fruitful to me in terms of publication of scientific papers and suggestion of policy recommendation for the conservation of the treefrog species. However, I was intrigued by what prompted citizen scientists to participate in our projects, given that they did not receive any material benefit from the projects. Over the years I have observed changes that young students become accustomed to exploring the nature by regularly participating in the projects. Parents, who were dragged to go to the field by their children, now often organize exploration events by themselves. Citizen science is not only an indispensable tool for professionals of many scientific fields but also an effective way to reconnect people to the natural world.

JANG Yikweon I love animals and love to watch what they do. I also believe that understanding what animals do and why they do the way they do is the best way to help them. My research interests focus on the ecology and evolution of communication in insects, frogs, birds and mammals. One of the main components in my research is the citizen science programs, called «The Earth Loving Explorers», organized by our lab and a local publishing company. The ultimate goals of my research are the wildlife conservation and the harmonious coexistence of humans and animals.

- Education**
- Ph.D. University of Kansas, 1997
 - M.S. University of Kansas. 1994
 - B.S. Seoul National University, 1991

Selected Professional Experience, Publications, Awards and Honors, and Current Interest

- 2008-present: Professor, Life Sciences, Ewha Womans University
- 2018-present: Director, Natural History Museum of Ewha University
- 2014-2015: Visitor Scholar, University of California Los Angeles
- 2013-present: Captain, The Earth Loving Explorers
- 2017, 2018: National Geographic Explorer

“THE SACRED TRINITY OF ECLECTIC MUSICIANSHIP”

— SPECIAL PERFORMANCE & TALK

by Prof. YEO Woon Seung _ *Department of Content Convergence, Director of Ewha Art and Science Institute, Ewha Womans University*



Music has changed continuously throughout the history of humanity. Especially, thanks to the recent advancements in science and technology, music rapidly evolves into something interesting, yet strange and totally unexpected. While the results of this evolution are often difficult to appreciate, understand, or even define, they actually present new chances for music and art, as well as science, technology, engineering and mathematics (STEM).

In this talk, I will discuss my career as a musician/artist/researcher/educator (partly to emphasize how “meaningless” these job titles are) in the context of STEM for music, introduce what I have done throughout my career at the intersection of music, visual art and engineering (or in the middle of nowhere), and share some of my personal experiences (i.e., lessons learned the hard way) en route to “convergence”. The talk will be accompanied by short visual music pieces programmed/performed by myself.

YEO Woon Seung YEO Woon Seung is a bassist, media artist, and computer music researcher. He is Associate Professor at Ewha Womans University, Seoul, Republic of Korea, and leads the Audio and Interactive Media (AIM) Lab. Dr. Yeo has received B.S. and M.S. degrees in Electrical Engineering from Seoul National University, M.S. in Media Arts and Technology from University of California at Santa Barbara, and M.A. and Ph.D. in Music from Stanford University. His research interests include audiovisual art, cross-modal display, musical interfaces, mobile media, and audio DSP. Results of his research are commonly shared by exhibitions and performances in the public interest.

Education

- B.S. in Electrical Engineering, Seoul National University (1995)
- M.S. in Electrical Engineering, Seoul National University (1999)
- M.S. in Media Arts and Technology, University of California at Santa Barbara (2002)
- M.A. in Music, Stanford University (2007)
- Ph.D. in Music, Stanford University (2008)

Selected Professional Experience, Publications, Awards and Honors, and Current Interest

- Chair, Department of Content Convergence, Ewha Womans University (2019 -)
- Director, Ewha Art and Science Institute (EASI) (2018 -)
- Director, Ewha Digital Storytelling Institute (2019 -)
- General Chair, 13th International Conference on New Interfaces for Musical Expression (NIME) (2013)
- 7 Interdisciplinary Leaders. Awarded for creative and interdisciplinary achievements, Joongang Daily (2010)

“WOMEN IN STEM IN ASIA AND THE PACIFIC NATIONS”

– DIALOGUE WITH WOMEN SCIENTIST LEADERS

by **KIM Jung Sun** _ Vice President, Dongseo University



Underrepresentation of women in science and engineering is still quite widespread worldwide. Fortunately, in Korea, we are witnessing advancement in government policies for women in STEM, which is attributed to the efforts of women over the past two decades, in the form of formal and informal “networks.” My involvement in women in STEM networks in Korea (KWSE) as well as internationally will be discussed in this talk. I will share my experience during the past five years of conducting the international collaborative study among members of the Asia and Pacific Nations Network of INWES (International Network of Women Engineers and Scientists)

KIM Jung Sun KIM Jung Sun is currently Vice President of Dongseo University where she had served as Dean of the Human Resources and Evaluation Office and Chair of the Division of Health Sciences. She received her BS and MS at the College of Pharmacy at Ewha Womans University, Korea and Ph.D. in Medicinal Chemistry at Rutgers-the State University of New Jersey, USA. She has been involved in activities and projects for promoting women in STEM. She and her colleagues have published five annual reports on gender barriers in STEM based on a joint international survey. She is Vice President for Conferences of INWES for 2018-2020.

Selected Professional Experience, Publications, Awards and Honors, and Current Interest

- Director, BIS-WIST (Regional Center for Supporting Women in STEM), 2009-2011
- Jung Sun Kim & Hye Young Park, Small Group Support: Attracting and Retaining Women in SET in Korea, *International Journal of Gender, Science and Technology* 6(2), 252-263 (2014)
- Joint International Survey and Policy Studies on women in STEM in Asia & the Pacific, KWSE (2014-2018)
- Prime Minister Citation, National Science & Technology Advancement Awards, Republic of Korea (April 21, 2011)
- Order of Science and Technology Merit (Ungbi Medal), Republic of Korea (April 22, 2019)

“DO ROUTINE AT THE HIGHEST LEVEL!” DISEASE DIAGNOSIS STORY OF A WOMAN SCIENTIST

— DIALOGUE WITH WOMEN SCIENTIST LEADERS

by **KIM Jungmi** _ CEO & Founder, VetAll Laboratories Inc.



We all want to live long and healthy without pain. From the beginning of human history till now, efforts to do so have continued. It is all about disease, diagnosis, drugs and prevention. Among them, what I have been interested in the field of 'diagnosis'. Starting with the women cervical cancer diagnostic chips (HPV chips), many human diagnostic products including virus, bacteria and genetic disease diagnostic products were developed and commercialized. Such professional experiences led to establishing a global veterinary diagnostic company. I would like to share my experiences including adversity, trial and error, failure and how I overcame. It was not easy but it was doable and worth to challenge as a woman scientist, daughter, mom, wife and business woman. “Do routine at the highest level!” what I have learned from my experiences. I will share it with young women scientists and hope you get encouraged and demand for your upcoming journey of careers.

KIM Jungmi KIM Jeongmi is the CEO and founder of VetAll Laboratories Inc. (www.vetall.com), a global veterinary diagnostic company. Ph.D. from College of Pharmacy in University of Texas at Austin and postdoctoral training at MIT. Served as a research director in Korea Centers for Diseases Control & Prevention, a bio-venture and pharmaceuticals. Received numerous awards including Grand prize in Women Entrepreneurship Competition and commendation from Ministry of Science, ICT and Future Planning. She has been devoting in fostering women scientists as next generation leaders and serving a principal mentor in EWHA Bio-mentoring group in Women in Science, Engineering and Technology in Korea (www.wiset.or.kr) over 13 years.

Selected Professional Experience, Publications, Awards and Honors, and Current Interest

- CEO and Founder, VetAll laboratories Inc
- Director of Diagnostic Business, ISU Chemical & ISU Abxis
- Grand Prize winner in Women Entrepreneurship Competition and commendation from Ministry of Science, ICT and Future Planning
- Advisory board member; Women Science and Technology Promotion Committee, Agriculture, Forestry and Food Science and Technology Committee, Human Resource Division of Small Business Policy Council
- Current interest: Global veterinary diagnostics & Fostering women scientists as next generation leaders

INSTRUCTORS



INSTRUCTORS



KIM Ye Eun

Program : Science & Society : Panel Discussion

Affiliation/organization : Donga Science



MOON Byung Jun

Program : Taekwondo

Affiliation/organization : Doboksori



JANG Sehoon

Program : Taekwondo

Affiliation/organization : Doboksori



JANG Chae-rin

Program : Korean Calligraphy

Affiliation/organization : Ewha Language Center



Members of Pungmul club - Puri

Program : K-Culture : Experiencing 'Pungmul'

Affiliation/organization : College of Social Sciences, Ewha Womans University



KIM Min Ho (Joseph)

Program : Conflict Management

Affiliation/organization : Asian Square, Sogang University



Isabelle MIN

Program : **Cross-Cultural Communication, Effective Presentation : Dry Run Workshop**
Affiliation/organization : **Transition Catalyst Korea Institute**



KIM Laehee Jayne

Program : **Effective Presentation : Dry Run Workshop**
Affiliation/organization : **Candela Medical Corp.**



KIM Hai Kyong

Program : **Effective Presentation : Dry Run Workshop**
Affiliation/organization : **DWhoWinz Ltd.**



SO Jihye Sharon

Program : **Effective Presentation : Dry Run Workshop**
Affiliation/organization : **Baker Hughes, A GE company**



YOON Myungok

Program : **Effective Presentation : Dry Run Workshop**
Affiliation/organization : **General Motors**



LEE Eunyoung

Program : **Effective Presentation : Dry Run Workshop**
Affiliation/organization : **Gaia Consult Inc.**

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Ewha News



이화뉴스

- 전체
- 기획
- 인물
- 연구
- 행사

이공계 차세대 여성리더 양성을 위한 '2019 이화-루스 국제세미나' 개최

등록일 : 2019-07-04

조회수 : 2317

본교와 헨리 루스 재단이 공동 주최하는 '2019 이화-루스 국제 세미나'는 지평 넓히기가 6월 26일(수)부터 7월 13일(토)까지 교내에서 진행된다. '이화-루스 국제 세미나'는 본교와 미국의 헨리 루스 재단이 함께 미국과 아시아 이공계 여성 대학원생의 경력 개발과 상호 교류를 촉진하고, 차세대 과학계 여성 리더를 양성하고자 주최하는 국제 세미나이다.



올해로 5회를 맞이한 이번 세미나에는 공모를 통해 최종 선발된 한국, 미국, 중국, 일본, 브라질 등 국내외 대학의 STEM(Sciences·Technology·Engineering·Mathematics) 분야 여성 대학원생 총 26명 이공계 학제간 국제 네트워킹을 다지고 전문가들과의 연구 교류 및 토론 등의 활발한 활동을 펼친다.

'2019 이화-루스 국제세미나'는 6월 27일(목) ECC 이상봉홀에서 개최된 개회식을 필두로 18일간의 세미나 일정을 본격 개막했다. 김혁숙 총장은 환영사를 통해 "4차 산업혁명이라는 새로운 시대가 펼쳐지는 가운데 고등교육은 학생들이 새로운 도전을 직면할 수 있도록 준비하게 할 의무가 있다"며 "이화-루스 프로그램과 같은 STEM 분야 여성 교육이 앞으로 변화하는 미래를 준비하는 우리의 목표에 가장 효과적으로 기여할 것이라고 믿는다"고 강조했다.



환영사를 전하는 김혁숙 총장(왼쪽)과 기초연설자 마리아 클라베 허비 머드 칼리지 총장(가운데)

이어 미국 허비 머드 칼리지 마리아 클라베(Maria KLAWE) 총장이 기초연설자로 나서 "이공계열 여성 커리어 확대"를 주제로 특강을 펼쳤다. 클라베 총장은 2018 포브스지가 선정한 '세계 과학기술분야를 이끄는 여성 50인'에 선정된바 있는 수학자이자 컴퓨터 과학자로, 여성으로는 최초로 허비 머드 칼리지 총장에 취임하는 등 학계와 기업계의 유력인사는 많은 장본인이다.

클라베 총장은 특강에서 과학기술계에 여성의 수가 적은 것은 소질이나 능력 부족이 아니라 기존의 교수법이나 남성 위주의 평가기준이 문제임을 제기하고, 공과대학의 여성성 신발 비율이나 여성 교수 채용 비율 등 과학기술계 여성들의 수직인 증가가 제도적으로 얼마나 중요한 의미를 지니는지 다양한 사례를 통해 소개했다.

이와 함께 7월 3일(수)에는 본교 생명과학전공 장인근 교수가 '사람과 자연을 연결하는 시민과학'을 주제로 공개 특강을, 7월 4일(목)에는 융합 콘텐츠학과 어문송 교수가 '정충적 윤학의 심취'를 주제로 특별 공연과 토크 콘서트를 진행했다. 올해 공개 특강은 과학 지식을 대중에게 쉽고 친근하게 전하고 있는 선배 과학자과의 만남을 통해 미래 여성 과학자로서 대중과 소통하는 역할을 키울 수 있는 시간으로 마련됐다.



공개 특강 강연자로 나선 장인근 교수(왼쪽)과 어문송 교수(오른쪽)

'지평 넓히기(Expanding Horizons)'의 슬로건 아래 글로벌 리더십, 역량강화, 비전, 네트워킹이라는 4개의 주제로 기획된 이번 세미나는 리더십 교육, 과학 주제 특강, 발표 및 토론, 워크숍 및 문화행사탐방 등의 프로그램으로 구성됐다. 참가자들은 7월 13일(토)까지 17박 18일의 기간 동안 리더십 역량을 훈련하고, 글로벌 네트워킹을 만들어감으로써 차세대 이공계 여성 리더로서의 지평을 넓혀가게 된다.

한편 본 세미나를 공동 주최하는 헨리 루스 재단은 미국 타임(Time)지와 라이프(Life)지의 공동 설립자인 헨리 R. 루스(Henry R. Luce)가 1936년 창립한 비영리재단으로, 미국 내 이공계 분야 여성들을 지원하는 단일 자원으로는 최대 규모의 장학기금을 조성해 지급하고 있다. 2015년 아시아 최초로 본교를 파트너 기관으로 선정된 이래 매년 여성 차세대 리더 양성을 위한 프로그램을 진행하고 있으며, 2020년까지 총 27억 원을 지원하기로 했다.





"백인 남성이 만든 기술은 백인 남성에게만 도움될 위험 있어"

송고시간 | 2019-06-29 08:01



美 하비머드칼리지 첫 여성 총장 마리아 클라베 "여성의 이공계 진출 중요"
"이공계 기술, 사회 모든 구성원이 사용...다양한 인재가 연구해야"



인터뷰 하는 마리아 클라베 하비 머드 칼리지 총장
[이화여대 제공]

(서울=연합뉴스) 최평천 박형빈 기자 = "백인 남성이 만든 기술은 백인 남성에게만 도움이 될 수 있는 위험성이 있습니다."

미국 하비 머드 칼리지의 첫 여성 총장인 마리아 클라베 총장은 29일 연합뉴스 인터뷰에서 이같이 말하며 여성의 이공계 진출의 중요성을 강조했다.

하비 머드 칼리지는 매사추세츠공대(MIT)보다 STEM(과학·기술·공학·수학) 계열 박사학위 졸업생이 많은 이공계 중점대학이다. 수학자이자 컴퓨터과학자인 클라베 총장은 2006년 하비 머드 칼리지의 최초 여성 총장이 됐다.

클라베 총장은 "이공계에서 만드는 기술과 제품이 특정 집단에 한정된 것이 아니다"라며 "사회 모든 구성원이 사용하는 것이기에 다양한 인종, 배경을 가진 사람이 기술을 연구하고 물건을 만들어야 사회 전체에 이익이 된다"고 설명했다.

이어 "미국의 경우 여러 인종이 많이 들어오고 있는데 이공계가 (백인과 같은) 한정된 집단으로 구성된다면 다양한 사회 구성원들의 수요를 맞추지 못할 것"이라며 "성별, 인종을 떠나 다양한 인재들이 이공계에 진출하는 것이 국가적 차원에서 중요하다"고 말했다.

클라베 총장은 이과에 남성, 문과에 여성이 적합하다는 고정관념에 대해서 "문화적으로 학습된 결과"라고 지적했다.

그는 "여성이 수학을 못 하고 남성은 잘한다라는 생각은 양육 과정에서 학습된 결과"라며 "이러한 생각이 쌓여서 성별대로 선호하는 것"이라고 말했다.

이어 "통계적으로 보면 북미는 20년 전부터 이공계의 남녀 비율이 얼추 5대5가 됐다"면서 "화학이나 생물학에 여성이 많고, 물리나 기계공학에는 여전히 남자가 월등히 많지만, 여성 교육이 잘 이뤄진다면 모든 분야에서 남녀 비율이 5대5가 될 것"이라고 설명했다.

한국 IT기업의 고된 근무환경으로 여성들의 IT기업 진출이 적다는 우려에 대해서는 "여성들이 신체적으로 약하다거나 여성이 일을 잘하지 못하리라는 것은 과학적 근거가 없는 속설일 뿐"이라며 "여성이 남성보다 (신체적으로) 더 잘하는 사례도 많다"고 말했다.

그러면서 "여성뿐 아니라 모든 근로자의 불이익을 줄이기 위해서라도 IT 기업의 근무환경 개선은 필요하다"고 덧붙였다.

여성의 이공계 진출이 드물었던 1970년대 수학 박사학위를 취득한 클라베 총장은 당시 이공계의 남성 친화 문화를 직접 겪었다고도 했다.

그는 "내가 수학 박사학위를 받았을 때 (박사학위 취득) 여성이 (전체의) 10%밖에 안 됐다"며 "수학교과에는 여교수도 없었고, 남 교수는 나더러 수학자가 되지 않았으면 좋겠다고 말하기도 했다"고 전했다.

그는 또 "학회에서 남성 학자 한 명이 일부러 나를 무시하고 노골적으로 배제했다"면서 "몇 년 후 내가 면접위원을 맡은 교수 채용 면접에 그 학자가 응시했다. 인장이 뒤바뀌면서 아주 우스운 상황이었는데, 나는 그 학자의 채용을 결정했다"고 회고했다.

클라베 총장은 "과거와 비교해 (이공계 문화가) 훨씬 나아졌다"면서 "많은 단체가 여성 과학자들의 이공계 진출을 장려하는 운동을 했다. 나 역시 박사학위를 취득하려는 여학생들을 돕는 단체를 만들었다"고 말했다.

클라베 총장은 자신과 같은 여성 이공계 학자를 꿈꾸는 한국 여학생들에 대한 조언도 잊지 않았다. 그는 "과학에만 몰두하지 말고 자신이 좋아하는 분야에 (과학 등을) 접목해야 한다"고 조언했다.

클라베 총장이 하비 머드 칼리지 총장이 된 이후 이 대학 컴퓨터과학과 등의 여학생 수가 50%가량 증가했다. 그는 지난해 미국의 유력 경제매체 '포브스'가 선정한 '세계 과학기술계 여성 50인' 중 1명으로 이름을 올렸다.

클라베 총장은 미국과 아시아 이공계 여성 대학원생의 경력 개발과 상호 교류 촉진을 위해 이화여대에서 열린 '2019 이화-루스 국제세미나' 기조연설을 위해 한국을 찾았다.

pc@yna.co.kr

HOME > 뉴스 > 대학

이화여대,이공계여성리더양성 '2019이화-루스 국제세미나' 개최

자성배 기자 | 승인 2019.06.25 11:55 | 댓글 0



'2019 이화-루스 국제 세미나: 지평 넓히기' 포스터

[에듀인뉴스=자성배 기자] 이화여자대학교는 미국의 헨리 루스 재단과 공동으로 오는 26일부터 7월13일까지 교내에서 '2019 이화-루스 국제 세미나: 지평 넓히기'를 개최한다.

'이화-루스 국제 세미나'는 미국의 헨리 루스 재단이 이화여대와 함께 미국과 아시아 이공계 여성 대학원생의 경력 개발과 상호 교류를 촉진하고 차세대 과학계 여성 리더 양성을 목적으로 주최하는 국제 세미나이다.

헨리 루스 재단은 미국 타임(Time)지와 라이프(Life)지의 공동 설립자인 헨리 R. 루스(Henry R. Luce)가 1936년 창립한 비영리재단으로 미국 내 이공계 분야 여성들을 지원하는 단일 재원으로는 최대 규모의 장학기금을 조성해 지급하고 있다.

이 재단은 이화여대의 여성 차세대 리더 양성 역량 및 기여도가 매우 높다고 판단해 2015년 아시아 최초로 이화여대를 파트너 기관으로 선정하고, 2020년까지 총 27억원을 '이화-루스 국제 세미나'에 지원하는 협약을 체결했다.

올해로 5회째를 맞이하는 이번 세미나에는 공모를 통해 최종 선발된 한국, 미국, 중국, 홍콩, 일본, 브루나이 등 국내외 대학의 STEM[Sciences(과학), Technology(기술), Engineering(공학), Mathematics(수학)] 분야 여성 대학원생(석사·박사) 총 26명이 참가한다.

26명의 참가자들은 오는 26일부터 17박18일 동안 '글로벌 리더십(Global Leadership)' '역량강화(Empowerment)' '비전(Vision)' '네트워킹(Networking)'이라는 4개의 주제로 기획된 리더십 교육, 과학 주제 특강, 발표 및 토론, 워크숍 및 문화역사탐방 등의 프로그램을 통해 리더십 역량을 훈련하고, 글로벌 네트워크를 만들어감으로써 차세대 이공계 여성 리더로서의 지평을 넓혀가게 된다.

이번 세미나는 관심 있는 일반인 누구나 수강할 수 있다.

Tag #이화여자대학교 #헨리 루스 재단



- 최신기사
- | 이슈
- | 대학입시
- | 중·고교입시
- | 초등교육
- | 취업·시험
- | 문화·엔터
- | PASS
- | 어린이동아

교육계소식

이화여대, 이공계 차세대 여성리더 양성 '2019 이화-루스 국제세미나' 개최

김수진 기자

일력: 2019.06.25 11:05

프린트 | + | 기사공유 URL복사

이화여자대학교가 "미국의 헨리 루스 재단과 공동으로 6월 26일(수)부터 7월 13일(토)까지 교내에서 '2019 이화-루스 국제 세미나 : 지평 넓히기'를 개최한다"고 25일 밝혔다.

'이화-루스 국제 세미나'는 미국의 헨리 루스 재단이 이화여대와 함께 미국과 아시아 이공계 여성 대학원생의 경력 개발과 상호 교류를 촉진하고 차세대 과학계 여성 리더 양성을 목적으로 주최하는 국제 세미나이다.

헨리 루스 재단은 미국 타임(Time)지와 라이프(Life)지의 공동 설립자인 헨리 R. 루스(Henry R. Luce)가 1936년 창립한 비영리재단으로 미국 내 이공계 분야 여성들을 지원하는 단일 재원으로는 최대 규모의 장학기금을 조성해 지급하고 있다. 이 재단은 이화여대의 여성 차세대 리더 양성 역량 및 기여도가 매우 높다고 판단해 2015년 아시아 최초로 이화여대를 파트너 기관으로 선정하고, 2020년까지 총 27억원을 '이화-루스 국제 세미나'에 지원하는 협약을 체결하였다.

올해로 5회째를 맞이하는 이번 세미나에는 공모를 통해 최종 선발된 한국, 미국, 중국, 홍콩, 일본, 브루나이 등 국내외 대학의 STEM(Sciences(과학), Technology(기술), Engineering(공학), Mathematics(수학)) 분야 여성 대학원생(석사·박사) 총 26명이 참가한다.

26명의 참가자들은 6월 26일(수)부터 17박 18일 동안 '글로벌 리더십(Global Leadership)' '역량강화(Empowerment)' '비전(Vision)' '네트워킹(Networking)'이라는 4개의 주제로 기획된 리더십 교육, 과학 주제 특강, 발표 및 토론, 워크숍 및 문화역사탐방 등의 프로그램을 통해 리더십 역량을 훈련하고, 글로벌 네트워크를 만들어감으로써 차세대 이공계 여성 리더로서의 지평을 넓히게 된다.

6월 27일(목) 이화여대 이상봉홀에서 열리는 개회식의 기조연설자인 마리아 클라베(Maria KLAWE)는 미국 하버드 칼리지(Harvey Mudd College)의 최초 여성 총장으로 학계뿐만 아니라 기업계에도 이공계 분야 여성들의 수적 증가의 필요성을 주장하였으며, 이를 적극적으로 실천에 옮긴 사람이다. 이번 강연에서는 '여성 기술자 참여 확대(Increasing the Participation of Women in Tech Careers)'를 주제로 과학기술계에 여성의 수가 적은 것은 소질이나 능력 부족이 아니라 기존의 교수법이나 남성 위주의 평가 기준이 문제임을 제기하고, 공과대학의 여학생 선발 비율이나 여성 교수 채용 비율 등 과학기술계 여성들의 수적인 증가가 제도적으로 얼마나 중요한 의미가 있는지를 사례를 통해 들려줄 것이다.

특히 '2019 이화-루스 국제세미나'는 참가자들이 미래 여성 과학자로서의 대중과 소통하는 역량을 키울 수 있도록 선배 과학자 2명의 특별 공개 강연을 준비했다. 7월 3일(수)에 이화여대 생명과학전공 장이권 교수가, 7월 4일(목)에는 이화여대 융합콘텐츠학과 여운승 교수가 강연자로 나서 과학 지식을 대중들에게 쉽고 재미있게 전파하는 '전달자' 혹은 '촉진자'로서의 역할을 몸소 보여준다.

'행동하는 생태학자'로 불리는 장이권 교수는 일반 시민이 자발적으로 과학 연구에 참여하는 '시민과학'의 개념과 참여 성과를 공유하고, 시민이 참여하는 과학 탐사의 중요성에 대해 생각해보는 계기를 마련한다. 전자공학에 전공한 컴퓨터 음악 연구자인 여운승 교수는 특별 공연 및 강연을 통해 인공지능 시대 속 예술과 창작의 변화상을 살펴보고 예술가로서 인간이 자리매김할 수 있는 새로운 길을 모색하고자 한다.

이밖에도 7월 4일(목) 오후에는 26명의 이화-루스 세미나 참가자들이 직접 기획하고 준비한 '과학토크콘서트'가 열려 대중들과 만나 과학에 얽힌 다양한 이야기들을 펼쳐보는 시간도 마련된다. 관심 있는 일반인 누구나 수강할 수 있다. 자세한 내용은 이화여대 심개발원으로 전화 문의하면 된다.



▶ 에듀동아 김수진 기자 genie87@donga.com

아시아투데이

☰ 전체 정치 사회 경제 전국 국제 연예·스포츠 오피니언 포토·영상 > 아투TV

사건·사고 | 법원·경찰 | 교육·행정 | 노동·복지 | 보건·의약 | 일반사회

이화여대, '2019 이화-루스 국제세미나' 개최

김서경 기자 | 기사승인 2019. 06. 25. 18:01



이화여자대학교가 미국의 헨리 루스 재단과 손을 잡고 오는 26일부터 내달 13일까지 서울 서대문구 교내에서 '2019 이화-루스 국제세미나 : 지평 넓히기'를 개최한다. 사진은 행사 포스터의 모습. /제공=이화여대

이화여자대학교가 미국의 헨리 루스 재단과 손을 잡고 오는 26일부터 내달 13일까지 서울 서대문구 교내에서 '2019 이화-루스 국제세미나 : 지평 넓히기'를 개최한다고 25일 밝혔다.

'이화-루스 국제세미나'는 아시아 이공계 여성 대학원생의 경력 개발과 상호 교류를 촉진하고 차세대 과학계 여성 리더 양성을 목적으로 한다.

헨리 루스 재단은 미국 타임(Time)지와 라이프(Life)지의 공동 설립자인 헨리 R. 루스(Henry R. Luce)가 1936년 창립한 비영리재단으로 미국 내 이공계 분야 여성들을 지원하는 단일 자원 중 최대 규모의 장학기금을 조성해 지급하고 있다.

헨리 루스 재단은 이화여대의 여성 차세대 리더 양성 역량 및 기여도가 매우 높다고 판단, 지난 2015년 아시아 최초로 이화여대를 파트너 기관으로 선정했다.

이어 양 기관은 오는 2020년까지 총 27억원을 '이화-루스 국제세미나'에 지원하는 협약을 체결했다.

오는 27일 이화여대 이삼봉홀에서 열리는 개회식은 기조연설자인 마리아 클라베(Maria Klawe)가 문을 연다. 마리아 클라베교수는 미국 하버드 머드 칼리지(Harvey Mudd College)의 최초 여성 총장으로 학기업계에 이공계 분야 여성들의 수적 증가의 필요성을 주장, 실천으로 옮긴 인물이다.

클라베 교수는 이번 강연에서 '여성 기술자 참여 확대(Increasing the Participation of Women in Tech Careers)'를 주제로 과학기술계에 여성의 수가 적은 이유로 기존의 교수법이나 남성 위주의 평가기준을 끔고 공과대학의 여학생 선발 비율이나 여성 교수 채용 비율 등 과학기술계 여성들의 수적인 증가가 제도적으로 중요한 의미가 있다고 강조한다.

이화여대는 선배 과학자 2명의 특별 공개 강연도 준비했다. 이화여대는 내달 3일과 4일 각각 장이권 생명과학전공 교수와 어운송 융합콘텐츠학과 교수를 초청해 쉽고 재미있게 과학 이야기를 들을 시간을 마련했다.

'행동하는 생태학자'로 불리는 장 교수는 일반 시민이 자발적으로 과학 연구에 참여하는 시민과학의 개념과 참여 성과를 공유하고 시민 참여형 과학 탐사의 중요성에 대해 이야기한다.

컴퓨터 음악 연구자인 어 교수는 특별 공연 및 강연을 통해 인공지능 시대 속 예술과 창작의 변화상을 살펴보고 예술가로서 인간이 자리매김할 수 있는 새로운 길을 모색하고자 한다.

올해로 5회째를 맞이하는 이번 세미나에는 공모를 통해 선발된 한국, 미국, 중국, 홍콩, 일본, 브루나이 등 국내외 대학의 STEM(Sciences, Technology, Engineering, Mathematics) 분야 여성 대학원생 총 26명이 참가한다.

참가자들은 오는 26일부터 17박 18일 동안 △글로벌 리더십(Global Leadership) △역량강화(Empowerment) △비전(Vision) △네트워킹(Networking) 등 4개 주제로 기획된 여러 프로그램을 통해 리더십 역량을 기른다.

이화여대는 이번 프로그램을 통해 글로벌 네트워크를 만들고 학생들이 차세대 이공계 여성 리더로서의 지평을 넓혀가는 발판을 마련한다는 방침이다.

이화여대는 이 외에도 내달 4일 세미나 참가자들이 직접 기획하고 준비한 '과학토크콘서트'를 통해 대중들과 만날 예정이다.

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이화여대



ELIS 2019: Expanding Horizons

PROGRAM BOOK

**18 Days of Extraordinary Adventures
with Women Scientists of the Future**

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EXPANDING HORIZONS

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