



2020 KWise Virtual Conference

KWiSE
Korean-American Women In Science Engineering

Women Scientists in Society

October 10, 2020 (Saturday)
Noon–3pm EDT (9am–noon PDT)

Pre-registration required

<https://www.eventbrite.com/e/2020-kwise-virtual-conference-tickets-119830643681>



PRESIDENT'S WELCOME ADDRESS

Dear colleagues,

Welcome to the 2020 Annual Korean-American Women in Science and Engineering (KWise) Conference! We are excited to have you join us today.

KWise is the largest science society representing a diverse group of women scientists with a Korean-based heritage. The goal of the KWise Conference is to promote scientific collaboration opportunities and close networking of Korean women in science and engineering, and to stimulate enthusiasm for participating in the scientific community. In order to achieve these goals, we will focus on 4 core areas:

- Promote career development and scientific inquiry of members
- Provide a platform for exchange among women scientists.
- Support young women scientists, physicians, and engineers
- Become a voice for science and engineering at the national and international levels

As a member-driven, non-profit, ethnic professional organization, the success of KWise depends solely upon the volunteered time and commitment of participants, which comes as a result of strong bonding amongst proactively participating members. The KWise Annual Conference not only aims to provide the opportunity to build strong connections and solidarity among the current members, but also to seek and welcome new women professionals who can serve as mentors and role models for young students. We thank you all for participating in our ambitious mission.

Today is the day we learn from each other's scientific work and career paths and share the experiences and values that have come to shape ourselves. We are grateful that you are here with us today. Thank you so much to our sponsors, partners, and supporters. Generous sponsorships from our sponsors have made this KWise Annual Conference a record-breaking event. I wish you all a fruitful day full of interesting and stimulating discussions and exchanges of knowledge so that we can, together, pave the successful career development of women scientists and engineers.

Welcome and Enjoy,

A handwritten signature in cursive script, appearing to read "Jayoung Kim".

Dr. Jayoung (Jay) Kim
KWise President
CEDARS-SINAI MEDICAL CENTER, UCLA

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TIME	CONTENT	CHAIR
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12:00pm EST (9:00am PST)	Opening remarks Dr. Jayoung Kim (KWise President)	Dr. Jayoung Kim
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12:05-12:30pm EST	Welcome remarks Korean Embassy in DC KOFWST President KUSCO Director	
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12:30–12:50pm EST	 <p><u>Keynote Talk</u> Dr. Elizabeth Quinlan (Professor of Biology, Co-Director of Brain and Behavior Initiative, Co-Director of MPower Initiative on Brain Health and Human Performance, University of Maryland College Park) "Rejuvenation of plasticity in the adult cortex to reverse visual deficits"</p>	Dr. Hey-Kyoung Lee
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12:50–2:50pm	 <p><u>Short Talks</u> (10 min + 5 min Q/A) Dr. Soyoung Kim (Director of Korea Policy Center for the Fourth Industrial Revolution (KPC4IR), KAIST) KOFWST "A myth of so few women (to hire or promote) in S&T"</p>	Dr. Dong-Yun Kim
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Mr. Domin Lee (Co-founder & Director of SoDAVi Group, FX Supervisor at Dreamworks Animation Studio)
"Lead Effects Artist to FX Supervisor"



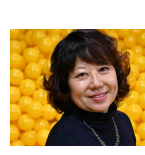
Dr. Seung-Hee Yoo (Assistant Professor in Biochemistry and Molecular Biology, UTHS)
"Genetic and pharmacological manipulation of circadian rhythms in pathophysiology"



Dr. Jeonghee Kim (Assistant Professor in Engineering Technology & Industrial Distribution, Texas A&M University)
"The future of healthcare: wearable, mobile, and non-invasive technology for health"



Dr. Sohyun Park (Lead Epidemiologist, CDC)
"Rethink your drink: Reducing sugar-sweetened beverage intake among Americans"



Dr. Jung Joo Hwang (Director, International Innovation Initiative (i3), California Institute for Telecommunications and Information Technology (Calit2) Director, Global Partnership-Korea, Institute for the Global Entrepreneur (IGE) University of California San Diego)
"Uncharted paths of women scientists in evolving society"

2:50-3:00pm EST	Closing Remarks Raffle (\$500 cash prize) Networking and Meet the Speakers	Dr. Jayoung Kim
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KEYNOTE TALK

Elizabeth Quinlan

Rejuvenation of plasticity in the adult cortex to reverse visual deficits



University of Maryland College Park

Co-Director; Brain and Behavior Initiative (BBI)

Co-Director; MPower Initiative on Brain Health and Human Performance

Research Interests

The goal of my research is to understand how experience differentially influences the juvenile versus adult mammalian brain. A primary focus is the role of experience in the regulation of the visual system. Pioneering work in the mammalian visual system demonstrated a significant decline in experience-dependent synaptic plasticity over the course of postnatal development. One of the severe consequences of the loss of experience-dependent synaptic plasticity is the inability to recover from form-deprivation amblyopia (Amblyopia ex anopsia) caused by a unilateral congenital cataract. If untreated, neurons in the binocular cortex become dominated by the unaffected eye, and resistant to recovery by removal of the cataract. Recently we have developed a method (binocular visual deprivation through dark exposure) that allows for the recovery from severe amblyopia in rodents, even when a monocular occlusion is initiated immediately at eye opening and continues until adulthood. This work was recognized with the Advancement of Science Award by the Neuro-Optometric Rehabilitation Association. Currently, we use a multidisciplinary analysis that includes electrophysiology, opto- and chemogenetics, morphometry and visual psychophysics, to characterize the functional consequences, and the molecular mechanisms, by which dark exposure promotes the recovery from chronic deprivation amblyopia.

So Young Kim

A myth of so few women (to hire or promote) in S&T

Prof. So Young Kim is an Associate Professor at the Graduate School of Science, Technology, and Policy at KAIST. She graduated from Seoul National University with English Education for the BA and Political Science for the MA. She then earned her Ph.D. and M.S. from Northwestern University with Fulbright Scholarship specializing in International Political Economy and Mathematical Methods in Social Sciences. Prof. Kim worked as a data archivist for the Social Science Computing Center at the University of Chicago and taught as an assistant professor at Florida Atlantic University before joining KAIST. Her research deals with high-stake issues at the interface of S&T and public policy such as government R&D funding and evaluation, basic science policy, science advising, science & engineering workforce, science-based ODA, and global governance of emerging technologies. Her scholarly work includes publications in International Organization, Journal of Asian Survey, Science and Public Policy, Journal of Science & Technology Studies, and STI Policy Review as well as the edited volume of Science and Technology Policy: Theories and Issues and co-authored volume of the Specter of the Fourth Industrial Revolution.



Domin Lee

Lead Effects Artist to FX Supervisor

Director of Visualization

Lead Effects Artist, Dreamworks Animation

Domin Lee is a co-founder and Director of Visualization at a non-profit organization, SoDAVi Group. He has been applying various vfx techniques to visualize social data that can be easily consumed by general audiences. He also works as FX Supervisor at DreamWorks and has been in the animation industry for over thirteen years. His credits include "Ratatouille", "Kung Fu Panda", "How to Train Your Dragon 2 & 3", and "Abominable". He has been developing systems and methods to offer solutions for complicated effects in animated feature films. His most recent work was nominated for Best FX for Feature at 47th ANNIE Awards and for Outstanding Effects Simulations in an Animated Feature at 18th Annual Visual Effects Society Awards. Domin also recently started working as Adjunct Faculty at School of Cinematic Arts, University of Southern California. He enjoys teaching students about many different areas of 3D animation.



Seung-Hee Yoo

Genetic and pharmacological
manipulation of circadian rhythms in
pathophysiology

Assistant Professor

BCB Graduate Program

UTHS



Jeonghee Kim

The future of healthcare: wearable,
mobile, and non-invasive technology
for health

Assistant Professor

Department of Electrical and
Computer Engineering

Texas A & M University



Sohyun Park

Rethink your drink: Reducing sugar-sweetened beverage intake among Americans

Team Lead/Lead Epidemiologist, Epidemiology and Surveillance Team

Obesity Prevention and Control Branch

Division of Nutrition, Physical Activity and Obesity

National Center for Chronic Disease Prevention & Health Promotion, CDC



Jung Joo (JJ) Hwang

UNCHARTED PATHS OF WOMEN SCIENTISTS IN EVOLVING SOCIETY

Director, International Innovation Initiative (i3), California Institute for Telecommunications and Information Technology (Calit2)

Director, Global Partnership-Korea, Institute for the Global Entrepreneur (IGE) University of California San Diego

Dr. Hwang currently manages several Korean projects, while developing and implementing new strategies for international educational programs and multi-discipline research collaborations in health, energy, environment & art and culture areas. At Institute for the Global Entrepreneur (IGE), Dr. Hwang is also managing the Global Entrepreneur Accelerator program. Dr. Hwang brings over 25 years of experience of international project development and management, strategic/operational planning and consulting in Korea, France, and the US, both from academia and industrial fields.



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한국여성과학기술단체총연합회
Korea Federation of Women's Science & Technology Associations



Chung, Hee Sun
CBE, Ph.D.
President, KOFWST

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“Frontier of Korea -U.S. S&T Cooperation!”

The Korea-U.S. Science Cooperation Center (KUSCO) is a non-profit organization, established in Vienna, Virginia in 1997.

KUSCO was established to accomplish two major missions: to enhance cooperative efforts in S&T between Korea and the U.S. and to support Korean-American scientists & engineers here in the United States.



KUSCO Programs

KUSCO Programs are composed of three categories; Nurturing Human Resource & Exchange, Strengthening S&T Cooperation, and Developing Infrastructure for S&T Professionals.

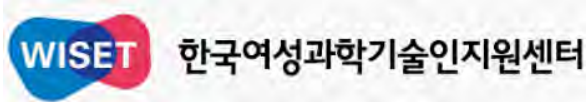
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SPONSOR ACKNOWLEDGEMENT

GENERAL SPONSORS THANK YOU FOR YOUR SUPPORT!



BECOME A KWISE MEMBER TODAY!

HOW TO JOIN

By becoming a member, you will establish the network of Korean-American women scientists and engineers and have the opportunity for collaboration and career development especially between the United States and Korea. Furthermore, you will have the opportunity to take advantage of the many benefits of membership and to participate in local community service. Through monthly seminar series (every first Friday at 7 pm), the KWISE provides scientific talks, career advice, and networking opportunities to meet and connect with women in all areas of science, including those of similar background as well as those with different fields of expertise.

Applications for membership may be submitted at any time during the year. You may submit the official KWISE membership application online (free):

<https://www.kwise.org/membership/registration/>



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