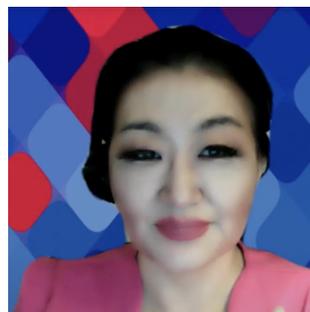




KOREAN-AMERICAN WOMEN IN SCIENCE AND ENGINEERING'S OFFICIAL NEWSLETTER

MESSAGE FROM THE PRESIDENT

JAYOUNG KIM, PHD
8TH KWISE PRESIDENT



Dear Colleagues and Friends,

The joyous celebrations for KWise Forums at UKC with colleagues, friends, and finally visible smiles, were a welcome sign that we are beginning the return to a more normal world for our KWise community. Like so many, I recognize that the pandemic has forced many changes in our work lives and personal lives of us. I also want to recognize the loss and emotional cost that each of us has experienced in different ways during the pandemic. However, as vaccines and boosters continue to proliferate, we have recently seen some easing of the COVID-19 pandemic and crisis needs.

Today, I am so grateful to each of the members who make up the KWise community and have time and again demonstrated our common values and mission, and commitment. Together, we have been driven by our desire to contribute to the betterment of our world and by our constant ambition to become an ever-better society by Korean American Women who are in Science and Engineering fields. I am thankful to the Advisory Board and Chapter Presidents, who showed strong and endless support for me as president during this time of dramatic evolution and progress.

We have so many amazing examples of how everyone pulled together so far. There will be time enough to look back, so in this brief note, I want first to express my thanks and to look forward to what we must try to accomplish together in the year ahead. Our active members and alumni continue to achieve amazing things, and they are the true source of both our pride and our contributions. There are too many things to relate here, so I'll just mention just a few representatives as examples.

One inspirational story is that of KWise Global Mentoring Program. It was especially gratifying for our KWise mentors, mentees, and organizing committee of the Class of 2021 Global Mentoring Program. Their return as alumni to the 2022's Mentoring Program was a moving affirmation of the importance of our extended community, and a reminder to all of us of what a privilege it is to be a part. Many mentees of the 2021 Mentoring Program have achieved big progress in their career, which includes getting admission to MS or Ph.D. programs, being hired by Biotech/pharma companies, getting internships in government sectors, and joining research institutes.

In addition, our community engagement efforts encouraged many female STEM students at National Math and Science Competition. This is just the tip of the iceberg on the range and impact of the work our members are doing to enable nurture the potential of our young female mentees in a wide array of fields. You can read the many stories in this newsletter.

Turning to our active members and mentors, I want to acknowledge the incredible dedication, resilience, and flexibility that each of you has shown in dealing with the pandemic over the past years. I want to thank our members. Their talent, creativity, engagement, and care for each other have constantly inspired us to do better and to do more. To put it simply: I am in absolute awe of what they have done.

Our 8th Administration Executive Committee Members are simply extraordinary. No headquarter office of our size spans such a range of endeavors with such excellence and impact. Our EC members constantly push the frontiers. I want to thank them, which in so many cases have made the challenging and the difficult appear smooth and easy, most especially during past years. Their dedication and the service we provide to our community and beyond make a difference in what we as a ONE KWise can achieve.

None of what we have accomplished would have been possible without the incredible support of our Chapter Presidents and members of KWise. Thank you.

This year ahead is an important one, with much to be accomplished and that cannot be deferred. The world is changing and expanding rapidly, and we must move forward to position ourselves for the future. We will begin making the additional funding strategies to support our community. It aims to support our service to the science community and academic endeavors.

We will also continue the process of improving diversity and inclusion in our community. We will plan and make changes for that and assure that we support career development, professional excellence, and a unique sense of community. To fully support the increasing breadth of the KWise experience, we will continue a series of workshops and webinars in strong collaboration with other scientific societies. We will continue to expand our online offerings, enabling KWise Global Mentoring Program to serve and empower new groups of young female STEM students around the world. As travel opportunities return, we will renew and enlarge our international engagements and outreach.

To continue to support all these ambitions, we must move to the next stage of our Membership Drive and Seeding for New Chapters, which has already been crucial to many achievements in these areas. I am extremely excited as we pursue the challenges and opportunities ahead of us. I am also hopeful that we'll be able to organize in-person events organized by chapters around the country this year. These last two years have been extraordinarily challenging, but KWise has continued to achieve and contribute much, and our future is promising indeed.

Thank you.

With warm regards and deepest gratitude,

Jayoung Kim
KWise President

Annual Supporters 2022



Thank you to our 2022 Annual Supporters

WiSET
한국여성과학기술인육성재단



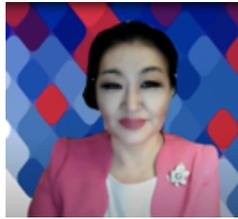
Korea Federation of
Women's Science & Technology Associations





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President Dr. Jayoung Kim
Cedars-Sinai Medical Center, UCLA



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Atkins



Treasurer Dr. Minhee Ko
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ED Director Dr. Bo Young Park
California State University Fullerton



PR Director Dr. Sung-Sil Moon
CDC



IT Director I Dr. Hyesung Park
Georgia Gwinnett College



IT Director II Ms. Sohyun An
UCLA

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LA Chapter Dr. Bo-ram Bang
Promis Diagnostics



SD Chapter Dr. Haekyung Lee
Cue Health

Interim



TX Chapter Dr. Yangjin Bae
Baylor College of Medicine



SE Chapter Dr. Sohyun Park
CDC



DC Chapter
Dr. Jinyoung Barnaby-Yang
USDA



NIH Chapter Dr. Dong-Yun Kim
NIH

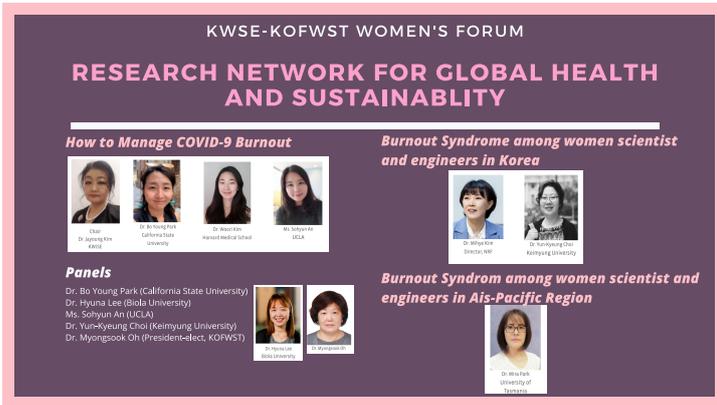


NY Chapter Dr. HeaYeon Lee
Mara Nanotech NY Inc.

Active engagement and interaction among KWiSE members between October 2020 to May 2021, KWiSE actively engaged and interacted with our members. The KWiSE HQ leads all member events were organized and brief information and flyers are included below. KWiSE chapters' specific activities are organized by chapters and their detailed activity description can be found under each chapter heading on pages 8-22.

National and International Conferences

KWiSE-KOFWST Women's Forum



This forum was open to both genders, and its goal was to exchange ideas on how to promote and empower women scientists in the various STEM fields, and to share information on education and policy needed for this process.

Burnout Syndrome among women scientists and engineers in the US.

The presentation highlighted the current lack of knowledge on burnout syndrome among women scientists and engineers and presented burnout survey results from data collected among US KWiSE members. Survey results showed that quality of life and effectiveness and productivity at work were all negatively impacted by COVID. The severity of the impact varied by major, age, career path, rank, and length of time in the US. Our results highlighted the need for further research and to allocate funds and resources to support women scientists and engineers to build resilience in the community.

Burnout Syndrome among women scientists and engineers in Korea

The presentation illustrated the current status of burnout among women scientists and engineers in Korea. Various strategies for tackling burnout syndrome at personal, organizational, and community levels were discussed. Available resources were presented for the audience to utilize to better manage psychological stressors that impact women scientists and engineers due to COVID.

Burnout Syndrome among women scientists and engineers in Asia-Pacific Region

Qualitative data on experiences of burnout syndrome among women scientists and engineers in Tasmania, Australia were presented. Experience from various ranks was shared, ranging from department heads to doctoral students. It was apparent that burnout syndrome was felt at all levels of rank and was especially impactful for those who were living abroad, separate from their family.



KWiSE-KWSE Joint Forum



The forum's main purpose was to share the success stories of multi-country webinar programs initiated previously and foster further collaboration and networking among women scientists and engineers in the United States, Canada, and Korea.

Hyo-Suk Lim (KWSE President) and Jayoung Kim (KWiSE President) opened the forum, the co-chairs of the forum. Dr. Mihyeon Jeon (KWiSE Vice President) and Dr. Jinah Park (Korea Advanced Institute of Science and Technology) administered and moderated the forum on-site from US and Korea.

After the brief welcome and greetings from Dr. Lim and Dr. Kim, the program moved forward with two technical presentations. First, Dr. Jinah Kim (Korea Institute of Ocean Science and Technology) presented "Deep Learning for Understanding Ocean-Atmosphere-Climate Phenomena." Dr. Sungsil Moon (Centers of Disease Control and Prevention) then presented on "Climate Change and Infectious Disease."

Next, the program continued with a panel discussion around Global Networking with Korea and USA. Dr. Mihyeon Jeon (Atkins) began the panel discussion, presenting on "Invaluable Human Interactions through Networking and Active Participation in Professional Organizations" sharing her 14-year professional experience insights.

The following three presentations were about collaborative webinar programs in the US, Canada, and Korea. First, Dr. Jinyoung Jeon (Korea Research Institute of Bioscience and Biotechnology) presented on "2020-2021 KWSE-KWiSE Joint Web-Seminar: the Past, Present, and Future." Dr. Dong-Yun Kim (National Heart, Lung, and Blood Institute) then presented "Experience from KWiSE Forum Series: COVID-19." Lastly, Dr. Eun-Young Choi (Korea Atomic Energy Research Institute) presented "Networking through Webinar between Korea and Canada: One Year Performance and Development Direction."



Support to Build New Chapters!

We Grow Together Interview Series KWise by Simplesteps

KWiSE
NEW CHAPTER DAY
Supporting campaign for new chapter development

May FROM TO JUNE

MAKE your own chapter

Application

- Find potential KWise members!
- Apply by April 30th.
- Enjoy the network drive!

JOIN KWise as a NEW CHAPTER!

SIMPLESTEPS

Events Programs Resources G

WE GROW TOGETHER Interview Series – KWise

한국어모모보기

Simple Steps presents an interview series introducing inspiring women's communities and companies that solve difficult problems in the name of solidarity. The fourth interview is with KWise, Korean-American Women in Science and Engineering.

On August 7, 2021 (PST), Simple Steps met with Dr. Jayoung Kim (President), Dr. Mihyeon Jeon (Vice President), Dr. Minhee Ko (Treasurer), Dr. Sungsil Moon (PR Director), Dr. Bo Young Park (ED Director), Dr. Hyesung Park (IT Director), and Sohyun An (TT Director II).

<https://www.simplestepsc.org/blog/interview-weconnect-kwise>

"Women in Science" Second Book

호모사이언스 (과학하는 여자들2)

A book by the Korean Federation of Women's Science and Technology Associate (KOFWST) has been published (Alma)! It was authored by five outstanding female scientists in hopes to serve as a guide for aspiring next-generation scientists. Especially, the three authors, Dr. Eun-Suk Seo, Dr. Hee-Yong Kim, and Dr. Sung-Sil Moon are KWise members and served as KWise president or chapter president.



Dr. Eun-Suk Seo, Univ. of Maryland
Dr. Hee-Yong Kim, NIH
Dr. Sung-Sil Moon, CDC

STEM Talk Concert

<p>GLOBAL CROSS-MENTORING MY CAREER IN KOREA for Korean & Korean American Career Development</p> <p>Friday July 30, 2021, 5:00-6:30 PM PST, 8:00-9:30 PM EST July 31, Saturday 9:00-10:30 AM KST</p> <p>REGISTRATION? Pre-registration is required. https://tinyurl.com/nwc3wvvh</p> <p>WHERE? Virtual CONTACT? kwisementoring@gmail.com COST? Free but space is limited LANGUAGE? Korean</p> <p>Are you looking for career advice? Please join the GLOBAL CROSS-MENTORING MY CAREER IN KOREA to learn about career paths in Korea. These inspiring mentors will guide you how to prepare for job openings in Korea. The discussion will be followed to talk about the life and career in Korea.</p> <p>Alice Oh, Associate Professor, School of Computing KAIST, Director MARS AI Research Center Hyeong Ha Kim, Senior Research Engineer, Korea Research Institute of Standards and Science Eun Jin Park, Management Planning Director, National Institute of Ecology Won Hwa Kim, Assistant Professor, The University of Texas at Arlington, Pohang University of Science and Technology</p>	<p>STEM TALK CONCERT MY CAREER IN GAME WORLD for Korean & Korean American Career Development</p> <p>Friday September 17, 2021, 5:00-6:30 PM PST Friday September 17, 2021, 8:00-9:30 AM EST Saturday September 18, 2021, 9:00-10:30 AM KST</p> <p>REGISTRATION? Pre-registration is required. https://kwise.org -> Registration</p> <p>WHERE? Virtual CONTACT? kwisementoring@gmail.com COST? Free but space is limited LANGUAGE? English and Korean</p> <p>Do you love computer game? Are you looking for career in 'game world'? Please join us and learn how to develop your career in the game world.</p> <p>Dami Yoon, Sr. Technical Artist, Riot Games Gia Park, Senior Artist, Jam City Kevin Kim, CEO, Brave Turtles Raffle, Nintendo Switch Life for 2 winners</p>	<p>STEM CAREER TALK CONCERT SMART TRANSPORTATION SYSTEMS</p> <p>5:00-6:30 PM PDT (8:00-9:30 PM EDT), Friday, October 22, 2021 9:00-10:30 AM KST, Saturday, October 23</p> <p>REGISTRATION? Pre-registration is required. https://tinyurl.com/KWISE-WISET</p> <p>WHERE? Virtual CONTACT? kwisementoring@gmail.com COST? Free but space is limited LANGUAGE? English</p> <p>Are you looking for career advice? Please join the KWise STEM CAREER TALK CONCERT series to learn about STEM careers from established transportation professionals in the United States. These inspiring mentors will talk about their life and careers in transportation fields ranging from governments, academia, and private sectors.</p> <p>David S. Kim, Secretary, California State Transportation Agency (CalSTA) Kyung-Hwa Kim, Performance Analysis and Monitoring Group Manager, Atlanta Regional Commission (ARC) Ann Xu, Ph.D., Co-Founder/CEO, ElectroTempo, Inc. Hyun Jeong Park, PE*, PTOE**, Research Scientist, Texas Transportation Institute (TTI) Mihyeon (Christy) Jeon, Ph.D., PE*, PTOE**, AICP***, Senior Engineer VI & Senior Project Manager, Atkins</p> <p>*PE (Professional Engineer) **PTOE (Professional Traffic Operations Engineer) ***AICP (American Institute of Certified Planners)</p>
<p>2021 KWISE SPONSORS THANK YOU</p>	<p>2021 KWISE SPONSORS THANK YOU</p>	<p>2021 KWISE SPONSORS THANK YOU</p>

Introducing KWiSE New Logo!



Our logomark symbolizes sustainable development with arrows in the upward direction and represents an intent to interact with the world with flexibility and an open mind through a smooth curve design of the image.

KWiSE의 아이콘은 상승 방향의 화살로 우리 커뮤니티의 지속적인 발전을 표상했고 외곽의 부드러운 곡선 처리를 통해 유연함 태도 및 열린 마음으로 전세계와 교류하려는 의지를 담았습니다.

The logotype embodies the solid networking of the community through a trustworthy and family-like atmosphere and expresses our bond with anyone who is eager to develop one's career by networking.

로고 문자 디자인은 신뢰감을 주는 폰트를 사용하여 가족같은 분위기의 탄탄한 네트워킹을 상징하고자 했고 나아가 커뮤니티 속에서 커리어를 발전시키고자 하는 모든 사람들과의 유대감을 표현하고자 했습니다.

KWiSE 9th President-Elect



MIHYEON (CHRISTY) JEON, PHD



Mihyeon (Christy) Jeon is a Senior Engineer VI / Senior Project Manager at Atkins with 20 years of combined experience in research and practice in traffic engineering, transportation planning, sustainability, and connected/automated vehicle policies. As a professional engineer and a certified planner, she has contributed to numerous transportation projects encompassing a full range of planning, design, operations, and delivery. She was named one of the industry's "Top 20 Under 40" by Engineering News-Record (ENR) Southeast in 2015. As a recognized researcher in the area of sustainable transportation systems, she published a book and multiple refereed journal papers. She is currently serving as the Vice President of Korean-American Women in Science and Engineering (KWiSE) Headquarter and the Conference Chair of the 2022 Georgia Institute of Transportation Engineers (ITE) Annual Conference (Summer Seminar). Christy also held a part-time faculty position in the Department of Civil and Construction Engineering at Kennesaw State University and taught a senior-level transportation engineering course. She received her master's and Ph.D. degrees in Civil Engineering at the Georgia Institute of Technology (Georgia Tech).

KWiSE

LOS ANGELES CHAPTER

VOL. #9, ISSUE 1 MAY 2022

WISET-KWiSE GLOBAL CROSS MENTORING

July 2021-November 2021

KWiSE-LA Chapter conducted an online mentoring program and held an offline meeting in July at Bacari in LA on July 31, 2021. While brunching at this meeting, current members and new members who joined KWiSE through mentoring gathered together to have a good time and a place of exchange between mentors and mentees. Mentors and mentees met in person to get to know each other more, and mentees had a useful time solving their lives and curiosity as female scientists by meeting mentors, who are real role models. In addition, at online meetings, mentors shared their thoughts and goals for the future, mentors spent time writing resumes for career development, helping develop the future in an Elevator pitch session, and giving advice on career development processes and how to prepare for the future.



Organizers:

Bo-ram Bang, Director of R&D, Promis Diagnostics
 Sunyoung Park, Assistant Professor, California Lutheran University
 Eun Bin Go, Scientific Developer, Emerald Cloud Lab
 Grace Suh, Manufacturing Associate, Immunitybio

July Meeting
 "LIFE LESSONS LEARNED AS A KOREAN-AMERICAN WOMAN IN STEM"

Mentor Sessions
 "How can I find my own niche in the U.S. as a Korean woman in STEM?"
 "Can Women in Engineering/Computer Science/Technology have it all: a stellar career and a family? Considering Gender Discrimination"
 "Strengthen Your Resilience: How to Deal with Stress and Burnout"

Strengthen Your Resilience: How to Deal with Stress and Burnout
 "What are the top stressors in your team, and what are the patterns of behavior that may result for your team if your team were to be tasked with a project?"

Join us on Thu 8/30/2022
 8:00pm - 9:00pm PST
 8:00pm - 9:00pm EST
 8:00pm - 9:00pm KST

Event Fee: \$20 (includes Zoom meeting)
 Meeting ID: 924 6281 1795
 Passcode: 88847

October Meeting
 "HOW CAN I FIND MY OWN NICHE IN THE U.S. AS A KOREAN WOMAN IN STEM?"

Opening Session
 "Pursuing a career in the U.S. for students in Korea: How is it different from the job market in Korea?"
 "Understanding and appreciating diversity and how to avoid the bias of both American & Korean cultural values: How do I stand out in both cultures in STEM?"

Networking Remarks
 Stick around for an optional dinner to the network!

Time & Place
 Fri, October 28th 10:00 am PST
 Fri, October 28th 10:00 am EST
 Fri, October 28th 10:00 am KST

Event Fee: \$20 (includes Zoom meeting)
 Meeting ID: 924 6281 1795
 Passcode: 88847

Monthly Meeting & Special Meeting

KWiSE Leadership Forum

Speaker 1: Sunmin Park (Attending Physician, Division of Surgery, Cedars-Sinai Medical Center)
 Speaker 2: KWise Members

7PM, SEPTEMBER 10, 2021

YONGSUSAN RESTAURANT & VIRTUAL
 950 S VERMONT AVE, LOS ANGELES, CA, 90006
 Please Join via ZOOM
 Meeting ID: 924 6281 1795
 Passcode: 88847

KWiSE MONTHLY MEETING

We are having a **MOVIE NIGHT**

Oct 22th (Fri), 7pm
 Heyri Cafe 2F
 (755 S Hobart Blvd, Los Angeles, CA 90008)

2021 CHRISTMAS PARTY

Join us for a fun & fabulous Christmas lunch!

SAT DEC 4 - 12-2 PM
 THE DRAGON RESTAURANT (882)

Bring a \$20+ worth wrapped gift for White Elephant

\$30 PER ATTENDEE (\$20 FOR STUDENTS)
 Please RSVP for a special Christmas gift!



Korean-American Women In Science and Engineering
KWiSE-WISET Global Cross Mentoring Program

KWiSE and WISET Korea are launching a mentorship program for undergraduate, graduate, and postgraduate female students of Korean descent.

The program will meet once a month from May to November of 2022.

The program is designed to strengthen the network of female members in STEM field, and help their career building.

Our Mentors Includes:

- Faculty of Cal. Lutheran, Biola, UCLA
- Co-Founder & Director of AI-powered health care company
- CEO of metaverse for NFT business
- R&D Director, R&D Scientist, Analyst/ Scientist of Biotech company
- Staff scientist of research hospital

Application Due: 4/20/2022
Mentee Evaluation: 4/21/2022 ~ 4/27/2022

Apply Here



Contact Email: kwise.la@gmail.com

LOS ANGELES CHAPTER

UKC 2021 Women's forum

After UKC2021 was held in Garden Grove, we had a time of harmony not only with LA Chapter members but also with KWiSE members from other parts of the United States. We had a time of exchange between Chapter members, who could not meet because offline meetings were not easy due to Corona, and members who were not able to meet because of remote areas.



UKC 2021 Women's forum

The KWiSE LA Chapter was present at the National Math and Science Competition Ceremony held at Harvey G. Mudd College on April 16, 2022. The LA Chapter president introduced KWiSE to the attending students and parents. The LA Chapter president then awarded eight outstanding female students with excellent grades in the competition on the behalf of KWiSE. These KWiSE Awards will encourage the efforts of girls, will also help them advance into the STEM field, and will promote KWiSE to the general public.



KWiSE-WISET

Global Cross Mentoring

KWiSE San Diego Chapter started Global Cross Mentoring in April 2021 and finished the mentoring program in November 2021 successfully. 9 Mentors from the San Diego chapter and 15 mentees (San Diego US 9 and South Korea 6) participated in this mentoring program.

The mentors and the mentees met through the 1:1 virtual meeting as well as in person. The mentors actively guided mentees including career paths as role models by providing their personal experiences. The mentoring program provided career development seminars, resume writing, publication writing, and interview tips to the mentees. The global cross mentoring was supported by WiSET (Korea center for women in science, engineering, and technology)



On Aug 20th San Diego chapter had an interim virtual meeting. And mentors and mentees who participated in the global cross mentoring program discussed the current challenges during the mentoring as well as how to lead the program successfully and contribute to the society through a global mentoring program.

Also one of the SD chapter mentors, Dr. Lee Haekyung introduced several books that provided great advice to mentees.



On Sept 17th San Diego chapter invited a special guest mentor Dr. Yang Ester who had worked in the biomarker industry for a long time. Dr. Yang gave a speech "Critical Success Factors in Medical Industry" to mentors and mentees. She gave a talk about how to develop professional careers successfully and the strategies to survive in such a competitive environment.

The last meeting was held on Nov 17th. During the meeting, the SD chapter had an award ceremony, and outstanding mentees (Grace Chung and Haeri Chang) were awarded.

This global cross mentoring program not only provided educational mentoring but also networking opportunities between future leaders and mentors who are working in professional fields.

Organizers:

- Haekyung Lee (Cue Health)
- Eunjeong Yoo (Hengenix Biotech)
- Eunyoung Sung (Qualcomm)
- Kiwon Park (Vividion Therapeutics)
- Dajung Lee (Qualcomm)



Fall Gathering

Place: Bayside Walk, Crown Point Park, San Diego, 92109

Time: October 2nd, 2021

Attendees: 8 members, Eunjeong Yoo, Eunha Hoh, Elizabeth Dajung Lee, Eunyoung Sung, Kiwon Park, Heekyung Chung, Yujin Kim, Haeun Chung, Haekyung Lee

We gathered for a short walk along the bayside and had a chat with no particular subject having lunch. The lunch menu was a roll of Kimbab (take-out from Manna ddukkjip and red bean pastry from Tous Les Jours) and a bottle of water. We had a lot of laughs and shared personal stories at work. The weather was perfect as always. Year-round weather in San Diego is more likely at some point between April and May in Korea. After about an hour-long lunch, we still had a lot to share but had to hit the road in all different directions to carry on other activities on that busy Saturday. It was a very pleasant time to see all the happy/healthy faces and have a cheerful conversation. On the way home, I wish we find more frequent chances to gather like this. No need to mention it again but the weather was too perfect for a walk and picnic lunch...



News from HOUSE OF KOREA
at Balboa Park, San Diego

Virtual Christmas Party

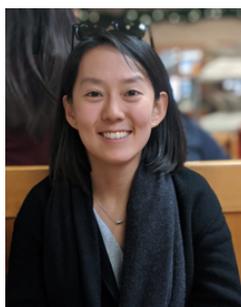
San Diego Chapter had a virtual Christmas party on December 18th, 2021.

The party began with a welcoming opening from San Diego Chapter president Dr. EunJeong Yoo. Dr. EunJeong Yoo summarized the 2021 KWiSE San Diego chapter activities followed by Dr. Meeyoung Hong's KWiSE history. Ms. Eunyung Sung also summarized the KWiSE San Diego chapter's financial activities in 2021. Dr. Haekyung Lee played the gayageum and received a lot of applause. It was a great time for social networking and catching up on our lives as friends during the COVID-19 pandemic.

The meeting was adjointed with Dr. Haekyung Lee's closing remarks on thanks for the participation and wishing members a merry Christmas and a happy new year 2022.



Message from a new member



Dr. Surl-Hee (Shirley) Ahn is a postdoctoral scholar at UCSD in the Department of Chemistry and Biochemistry and has been a member of the KWiSE San Diego chapter since 2021. She had participated as one of the speakers for "One Lesson from You" in May 2021 and had been a mentor for Yoonjung Choi, a recent UCSD graduate in Chemical Engineering. From the mentorship, Yoonjung successfully became an associate member of the technical staff at QuantumScape, a Bay Area startup focused on building next-generation batteries for electric vehicles.

Besides KWiSE activities, Surl-Hee has been actively doing research using molecular dynamics simulations to study proteins and important biophysical phenomena. In particular, her work unveiled the opening mechanism of the SARS-CoV-2 spike protein, which is the first step for SARS-CoV-2 to start infecting human cells. Her work was featured in local San Diego news and published in Nature Chemistry in Aug 2021. Outside of work, she enjoys running half-marathons and marathons and exploring national parks.

Introduction of HoK at San Diego

House of Korea (HoK) was inaugurated by its president, Jung Joo Hwang who is a long-time member of KWiSE, at Balboa Park in San Diego in November 2013. The HoK is an educational, cultural, non-political, and non-profit organization and has propagated Korean culture and food via several annual events such as December Nights/International Christmas Festival, Ethnic Food Festival, and Lawn Program. The HoK cottage construction was finally completed last year through 8 years of the diligent fundraising effort. The grand opening ceremony was held with other 8 international cottages at Balboa Park on August 28, 2021, and celebrated with many guests including KWiSE SD chapter president and membership director, Drs. Eun Jung Yoo and Ki Won Park. The HoK cottage opens every Saturday and Sunday to spread and share Korean history and culture, and KWiSE members are welcome to volunteer to host the HoK cottage. Please contact Dr. Heekyung Chung (membership director of HoK) at membership@house-of-korea.org if you are interested in volunteering for the HoK.

Letter from House of Korea President Hwang Jung-Joo

I wish you and your family a happy and healthy New Year! Kudos to you all, as we all did our best throughout the year 2021, which had been a very difficult time for everyone.

All members of the House of Korea are truly appreciative of the endless love and support by many people for the Cottage construction project even in very difficult times under the COVID-19 pandemic. With your encouragement and dedication to fundraising about \$600,000, the House of Korea Cottage is finally completed at Balboa Park, the largest municipal park in the United States. To build the House of Korea Cottage, it took almost 8 years since the New Cottages Construction Committee was established in 2013. Last August 28th, the opening ceremony of the 9 Cottages representing 9 countries including Korea was held with many guests including 9 Consul-Generals, San Diego Mayor Todd Gloria, California State Senate Tony Atkins. The "Korea Day at Balboa Park" event on October 23rd jointly hosted by the Korean Cultural Center in Los Angeles and the House of Korea attracted more than 10,000 attendees to celebrate the completion of the House of Korea Cottage in Balboa Park.

From March of 2022, all members of the House of Korea are volunteering to host our cottage with an open mind and heart to the visitors during weekends. Our mission is to be ambassadors of Korean cultures to the San Diego community and the World. We hope that the House of Korea Cottage will be your playground, shelter, and learning place where anyone can learn and enjoy Korean culture together. May the roaring tiger energy dwell in your home and community throughout 2022!

From House of Korea Founder and President, Jung-Joo Hwang



KOREA DAY AT BALBOA PARK October 23



The 3rd Annual KWiSE @TAMU
Conference at Texas A&M University



Soon-Mi Lim, Instructional Associate Professor,
Department of Chemistry, Texas A&M University;
Founder of KWiSE@TAMU

In Fall 2021 Texas A&M University finally went back to full capacity after the COVID pandemic. KWiSE@TAMU resumed community activities and hosted the 3rd annual conference on November 13, 2021. Members of KWiSE@TMC, Dr. Sanghee Yoo, Dr. Yangjin Bae, Dr. Yunju Yang and the Consulate General of Republic of Korea in Houston joined the conference from Houston. The conference was held in Chemistry building of Texas A&M University, College Station, TX. Family members of KWiSE members also joined social gathering part of the conference. The conference started with warm welcome and lunch with Kimbop, Tteokbokki, Dakgangjeong, and Japchae. Most of attendees were graduate students and postdocs recently came from Korea, who were missing Korean food, and enjoyed those Korean soul foods. The lunch time also served as an ice breaker that softens the environment with casual conversations among participants. Mingoo Kang, the Consulate General of Republic of Korea in Houston announced the beginning of conference with an opening remark and shared information about the services at the Korean Consulate Services. Participants took a group photo before moved to a lecture hall for presentations and the rest of the conference programs.

The 1st speaker of the official program was Hyunjin Kim (Ph.D. student in Department of Chemistry). As a senior graduate student, she presented fun activities that graduate students and postdocs can enjoy in College Station, Houston, Austin, and Dallas. Students and postdocs appreciated the ideas of melting stress away only (?) with a couple of hours of driving. The conference transitioned to research talks presented by a faculty, a postdoctoral researcher and a student. Dr. Kiju Lee, who is an Associate Professor in the Department of Engineering Technology & Industrial Distribution and Mechanical Engineering and also a mom of two children, shared her research work on developing adaptive swarm robotics for solving complicated problems in real world. Her videos of swarm robots awed audience from the delicate movements of the robots. Next speaker, Dr. Gyoungok Gang, a postdoctoral researcher in the Department of Nutrition, educated us with the health effect of nutrition to seniors. Living in the era of longer lifespan, all audience were paying attention to applicable lessons of healthy nutrition from her presentation. The last research presentation was by Ms. Soowan Chun, who just completed the thesis defense for her Master's degree. As a visualization major, she shared her research on virtual reality simulation for nursing education for Leopold's Maneuvers which estimates the size, position, and weight of a fetus by touching the patient's abdomen. For safer and efficient education, they developed a virtual reality system with a SeseGlove and a custom-made vibration gloves along with visual reality that allow users to feel vibrations from a virtual patient and provides more realistic experiences. All three research presentations were highly related to real world that kept the audience paying attention through all here presentations.

Following after research presentations, Ms. Marilyn Yeager from the Career Center at Texas A&M University gave a talk on Career Center Resources specifically for graduate students. She is an Associate Director for Graduate Student Services and has been serving students with career advising and education for decades. Topics in her presentations included how to prepare resume, cover letters, job search, interview tips and networking for Master's or Ph.D. students. She emphasized the value of networking and setting up LinkedIn profiles which are critical in job search as a professional. The final program of the conference was award ceremony and announcement of future events of KWiSE. Dr. Sanghee Yoo, who was the president of KWiSE@Texas, gave awards to the presentation winners and certificate of appreciation to the executive committee of KWiSE@Texas.

Organizers:

Yangjin Bae, Ph.D., Baylor College of Medicine
Soon Mi Lim, Ph.D., Texas A&M University
Crystal Shin, Ph.D., Baylor College of Medicine
Yuri Park, Ph.D., Baylor College of Medicine
Ju Eun Yim., Texas A&M University
Sanghee Yoo, Ph.D., Qureator Inc.

Dr. Jeonghee Kim, who is an Assistant Professor in the Department of Engineering Technology & Industrial Distribution at Texas A&M University, and Dr. Crystal Shin, who is an Assistant Professor in the Department of Surgery at Baylor College of Medicine, received the outstanding Member Awards for their excellence in research. There had been a series of virtual research presentations by graduate students and postdoctoral researchers in 2021. Dr. Yunju Yang from the Institute of Molecular Medicine at University of Texas Health Science Center was voted as the top presenter and awarded with the Young Scientist and Engineer Award. All presenters at the 3rd annual conference were also appreciated with special gifts. The conference was adjourned with caring and cheering words to each other and excitement for the next conference.

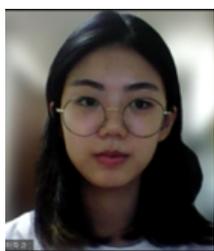
3rd Annual KWiSE@TAMU Conference Program

- 12:00 – 12:30 pm **Welcome and lunch, 2119 CHEM**
-Opening Remark and Korean Consulate Service, Consulate General of Republic of Korea in Houston
-Group photo
- 12:30 – 1:00 pm **Having Fun in College Station and Vicinity, 2119 CHEM**
Hyunjin Kim, Graduate Student, Department of Chemistry, Texas A&M University
- 1:00 – 1:45 pm **Research Presentations, 2122 CHEM**
“Swarm Robotics and its Potential for Complex Real-World Problems”
Dr. Kiju Lee, Associate Professor, Department of Engineering Technology & Industrial Distribution and Mechanical Engineering, Texas A&M University
“Senior Nutrition”
Dr. Gyoungok Gang, Postdoc, Department of Nutrition, Texas A&M University
“Exploration of Visuo-haptic Interactions to Support Learning Leopold's Maneuvers Process in Virtual Reality”
Soowan Chun, Graduate student, Department of Visualization, Texas A&M University
- 1:45 – 2:15 pm **Career Center Resources, 2122 CHEM**
Marilyn Yeager, Associate Director for Graduate Student Services, Career Center, Texas A&M University
- 2:15 – 2:30 pm **Award ceremony, KWiSE Future Events and closing remark**
Dr. Sanghee Yoo, KWiSE@TMC
- 2:30 pm **Epilogue and Debrief**



2021 KWiSE SE Chapter WiSET Global Cross Mentoring

KWiSE Southeastern Chapter successfully hosted the KWiSE-WiSET Global Cross Mentoring Program in 2021. This program aims to foster dialogue about the continually changing professional landscape in your careers. Seven mentors (Drs. Sohyun Park, Hyesung Park, Mikyoung Shin, Sung-Sil Moon, Jae-Kyung Lee, Junghui Koo, and Mihyeon Jeon) and 27 mentees from the Southeastern region of the United States and South Korea participated in this mentoring program.



Bin Han (Korea University, 2022) presented “Improving the Efficiency of Remote Healthcare Using Mobile Augmented Reality” at the 2021 Annual Decision Sciences Institute Conference. She discussed the importance of no contact service in the healthcare sector during the COVID-19 pandemic by improving the efficiency of mobile augmented reality. This work was done while participating in this Mentoring Program in 2021 (Mentor: Dr. Hyesung Park).

2021 WiTSE Best Mentor Award



Dr. Sung-Sil Moon, Microbiologist in CDC, has received the 2021 WiSET Best Mentor Award from WiSET President. Dr. Moon recognized that mentorship is a critical component of enthusiastic and professional communication with her mentees to help mentees.

In-Person Network Meeting on July 2021



Organizers:

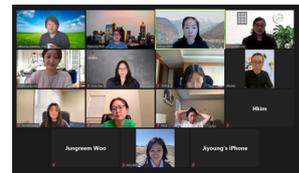
Sohyun Park, Ph.D., Team Lead/Lead Epidemiologist, Centers for Disease Control and Prevention (CDC)
 Hyesung Park, Ph.D., Associate Professor, Georgia Gwinnett College
 Mikyoung Shin, DrPH, Epidemiologist, CDC
 Sung-Sil Moon, Ph.D., Microbiologist, CDC
 Mihyeon [Christy] Jeon, Ph.D., Senior Engineer, Atkins
 Jae-Kyung Lee, Ph.D., Associate Professor, University of Georgia

#1 Scientific Writing

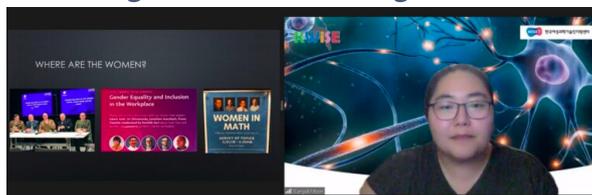
Drs. Mikyoung Shin and Sohyun Park (Epidemiologists at CDC) presented tips on scientific writing based on their experience of writing articles for the WiSET-KWiSE SE chapter mentor-mentee program.



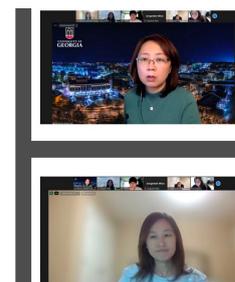
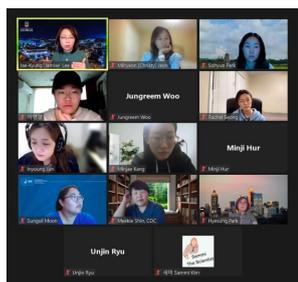
#2 – Fellowship Opportunities at CDC and Tips on Applying for GOV job



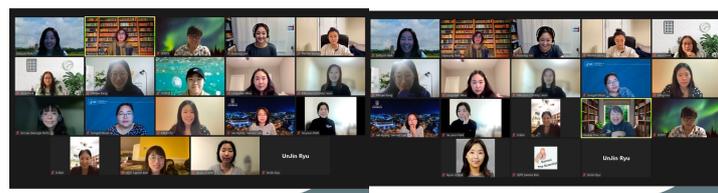
#3 – Networking and Retention Strategies



#3 – Tips on Resume Writing and Job Interview



2021 End of Program Meeting



News from Chapter Members



Minji Hur is a recipient of the '2022 IAFF Student Travel Scholarship' by International Association for Food Protection (IAFF). IAFF recognizes that students from around the world are future leaders in the field of food safety. This scholarship will award plaque and support travel funds to attend the Annual Meeting of the IAFF 2022 (July 31-August 3, 2022, in Pittsburgh, PA). Ms. Hur is a Ph.D. student in the Department of Food Science and Technology and Center for Food Safety at the University of Georgia, Athens



The CDC Science Clips, Top Articles of the Week: Dr. Sohyun Park's article entitled Factors related to water filter use for drinking tap water at home and its association with consuming plain water and sugar-sweetened beverages among U.S. Adults was published in the American Journal of Health Promotion, Jan 2022. This article was highlighted in the CDC Science Clips Top Articles of the Week, which are selected on the basis of potential for population impact and practical implementation.



Dr. Mikyong Shin has been appointed as president of the Southern Regional Chapter (AL, GA, SC, FL, TN), Korean American Scholarship Foundation (KASF), and started on April 5, 2022. The KASF is a non-profit, volunteer-managed organization established to help meet the financial needs of Korean-American students seeking higher education and to encourage community and civic service as an integral part of leadership development. In 2021, KASF awarded \$600,000 to undergraduate and graduate students, high school students, and Korean War Veterans' Descendants.

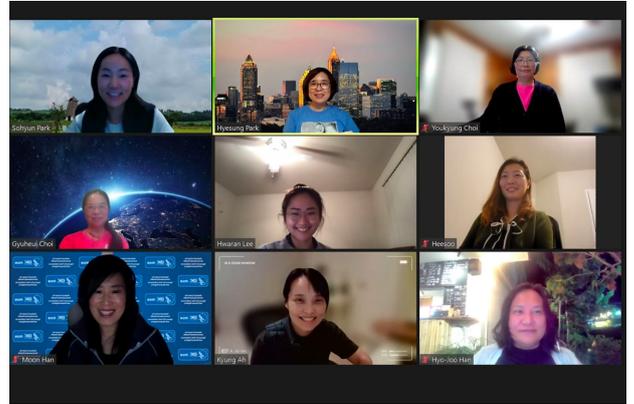
International Conference on Convergence
BIEN 2021
 Women Scientists and Engineers
 Leading the Future from New Normal



Dr. Sung-Sil Moon, Microbiologist in CDC, has been invited as speaker for the BIEN 2021, Women Scientists and Engineers Leading the Futures from New Normal. The talk was titled "'Her Story' in the COVID-19 era" and she provide the reason why we should spread the "Her story," which is the narrative of all-female scientist in the COVID-19 era.

New Year 2022 Meeting

We had a New Year's meeting virtually. At the meeting, we each shared our New Year's resolution. And we shared anecdotes that we experienced while working and living in the United States. KWISE-SE, happy new year to you all.



**2022 KWISE-WISET
 Global Cross Mentoring Program**

KWiSE SE plans several mentoring programs for over 50 mentees from the East area of US and Korea.

2022 Networking Meeting

In-Person Meeting with New KWISE Members
 April 24, 2022, Chungdam, Duluth GA



NIH/ DC CHAPTER

KWiSE Forum Series COVID-19

This series was sponsored by Korea Foundation.

Development and Implementation of COVID-19 Vaccines

Date/Time: US: June 10th, 2021, 8:30-10 PM EST

Speakers:

Dr. Jerome Kim, Director General of the International Vaccine Institute (IVI), Seoul, Korea

- **Talk Title:** Pearls and Perils: The evolving Legacy of COVID-19 Vaccine Development, Implementation, Access, and Equity
- **About Dr. Kim:** Dr. Kim is an international expert on the evaluation and development of vaccines. Dr. Kim was Principal Deputy and Chief, Laboratory of Molecular Virology and Pathogenesis in the U.S. Military HIV Research Program. He led the Army's Phase III HIV vaccine trial (RV144). A prolific author of more than 250 publications, he is a Fellow of the American College of Physicians and the Infectious Diseases Society of America. Dr. Kim is a graduate of the University of Hawaii and received M.D. from Yale University.



- YouTube link: <https://www.youtube.com/watch?v=lRx1JnUOHAg>

Dr. Philip R. Dormitzer, Vice President and Chief Science Officer of Viral Vaccines at Pfizer

- **Talk Title:** Scientific Basis for the Rapid Development of Highly Effective RNA-Based COVID-19 Vaccines
- **About Dr. Dormitzer:** Dr. Dormitzer leads Pfizer viral vaccines research and development programs including the Pfizer-BioNTech RNA-based COVID-19 pandemic vaccine and influenza vaccine collaborations. Before joining Pfizer, he led a research team that developed H1N1 influenza vaccines. Before joining the industry, he was an Assistant Professor of Pediatrics at Harvard Medical School and led a structural virology laboratory that determined the structures of the rotavirus neutralization antigens. Dr. Dormitzer has a bachelor's degree in anthropology from Harvard and Ph.D. and M.D. from Stanford University.



화이자 mRNA백신 개발 도미처 박사 한인들과 만나다

국제백신연구소 사무총장 제롬 김 박사도 특별강연

10일(목) 오후 8시30분부터
한인 등 누구나 참석 가능




제롬 김 필립 도미처

코로나19 mRNA백신을 개발한 화이자의 필립 도미처(Philip R. Dormitzer) 박사 개발 부대표·최고 과학책임자(CSO)와 국제백신연구소(IVI) 제롬 김(Jerome H. Kim) 사무총장으로 부터 백신 개발 과정과 분배에 관한 강연을 들을 수 있는 시공간이 마련된다.

재미한인여성과학자협회(KWiSE) 워싱턴DC지부와 미국립보건원(NIH) 지부가 주최하는 '코

하는 코로나19 백신 분야를 이끌고 계신 제롬 김 박사와 도미처 박사 두분의 귀중한 경험을 배울 기회가 될 것으로 기대한다'고 말했다.

참가비용은 무료이며, 등록 기한

NIH Chapter organizer

Dong-Yun Kim, Ph.D., NIH
Youngmi Ji, Ph.D., NIH
Sung Jung Kang, Ph.D., NIH

DC Chapter organizer

Jinyoung Barnaby, Ph.D., USDA
Hee-Jung Song, Ph.D., U of Maryland
Sooyoung M. Cho, Ph.D., Edward Jones

Monoclonal Antibodies as Therapeutics against SARS-CoV-2

Date/Time: US: September 30, 2021, 8:30-10 PM EST

Speakers:

Dr. Su-Young Choi, Clinical Pharmacology Team Leader, FDA

- **Talk Title:** Monoclonal Antibodies Targeting SARS-CoV-2
- **About Dr. Choi:** Dr. Su-Young Choi is a clinical pharmacology team leader



for antiviral products, Office of Clinical Pharmacology, Office of Translational Sciences, Center for Drug Evaluation and Research, US Food and Drug Administration. She is primarily responsible for leading scientific and regulatory assessments on clinical pharmacology aspects of antiviral drug development. Particularly, she has been involved in the research and regulation of investigational products for COVID-19, smallpox, or Ebola. Dr. Choi obtained her Pharm.D. and Ph.D. at the University of Illinois at Chicago.

Dr. Soo-Young Lee, Vice President of Celltrion, Inc. Korea

- **Talk Title:** Neutralizing Effect of CT-P59 against SARS-CoV-2 Variants
- **About Dr. Lee:** Dr. Soo-Young Lee is vice president of Celltrion, Inc. Dr. Lee



also leads the New Drug Research Division, Research Management Development, and New Drug and Vaccine Development. He has developed therapeutic mAbs for flu, Hepatitis B, rabies, MERS, and COVID-19. Dr. Lee received his PhD from the Department of Bioengineering at Inha University, South Korea.

- Link for the 4th KWiSE Forum program http://www.kwise.org/nih/wp-content/uploads/2022/03/KWiSEForum4_Program.pdf

코로나 바이러스 치료제 개발 주도

한인여성과학자협회 포럼

재미한인여성과학자협회(KWiSE) 국립보건연구원(NIH)/DC 지부가 제4회 KWiSE 포럼을 개최한다. 코리아 파운데이션(Korea Foundation)에서 후원하는 온라인으로 진행되는 이번 행사는 셀트리온의 이수영 박사(한국)와 연방식품의약품안전청(FDA)의 최수영 박사(미국)이 연사로 참여한다. 이수영 박사는 코로나바이러스 변이(SARS-CoV-2)에 대한 CT-P59의 중화효과를 설명한다. 셀트리온에서 개발한 CT-P59는 코로나바이러스-2의 회복기 환자의 혈중으로부터 분리된 단클론항체(mAb)이다.

CT-P59의 기작은 코로나바이러스-2의 작용기 결합부위(RBD)와 숙주의 ACE2의 상호작용을 차단해, 중화 효과를 나타내며 코로나바이러스-2에 대한 치료제로 개발되고 있다. D614G와 영국 변이 코로나바이러스-2는 CT-P59에 의해 유의한 중화 효과를 나타냈다. 델타 플러스 혹은 람다 변이주와 같은 최근 나타나는 코로나바이러스-2의 새로운 변이에 CT-P59가 항바이러스 활성을 갖는지 지속적으로 평가하고 있다. 최수영 박사는 SARS-CoV-2를 표적으로 하는 단클론항체 치료제에 대해 설명한다. COVID-19 치료 및 예방을 위해 많은 단클론항체가 개발되고 있으며, 그중 몇몇 단클론항체 치료제



가 임상적으로 의미 있는 항바이러스 효과를 입증했다. 현재 개발되고 있는 대부분의 항바이러스 단클론항체 치료제는 바이러스가 숙주 세포에 침입할 때 사용되는 스파이크 단백질 표적으로 한다.
김연미 기자

KWSE-KWiSE Joint Forum at UKC 2021, California, USA

Global Networking with Korea and the USA

Date/Time: US: December 17, 2021 4-6 PM (PST)

In this panel discussion, Dr. Dong-Yun Kim presented a talk titled "Experience from KWiSE Forum Series: COVID-19". One of the core missions of KWiSE is the promotion of international cooperation, esp. between the US and Korea. KWiSE NIH and DC chapters hosted the forum because of research relevance and location. The forum covered COVID-19 research, new diagnostics technology, vaccine development, and therapeutics. In the talk, she also discussed the positive impacts of the forum on the researchers, KWiSE, and the Korean community in general. The forum provided an opportunity to bring the latest COVID-19 research and vision of leading scientists to a diverse audience. KWiSE played the core role in the forum and raised the reputation of KWiSE among fellow scientists. The event introduced the work of Korean researchers to non-Koreans. In addition, the unqualified success helped dispel bias and preconceptions about women scientists.

<https://youtu.be/beQ2WWCG3GY>

- Affiliation
- Location

Forum	Academia	Government	Industry	Other	Forum	Registration	US	Korea	Other
1	37%	33%	15%	15%	1	149	66%	33%	1%
2	37%	35%	19%	9%	2	168	56%	41%	3%
3	37%	33%	12%	18%	3	289	61%	36%	3%
4	42%	28%	18%	12%	4	230	65%	33%	2%
total	38%	32%	16%	14%	total	836	62%	36%	2%

New KWiSE Forum on US-Korea Network for Scientific Collaboration

In 2022, the NIH and DC chapters are proud to host a new KWiSE forum on scientific collaboration between Korea and US. Built on the experience of the highly acclaimed Covid-19 forum, the 2022 forum significantly expands both diversity and accessibility. While the previous forum was more focused on a relatively narrow audience, we designed the new forum to cover scientific topics that are relevant and informative, thereby appealing to both professionals and the general public. Tentative topics include public health after COVID-19 and the impact of climate change on human health and food security. This event is sponsored by Korea Foundation.

2022 KWSE-KWiSE Global Webinar Series [Korea-USA-Canada]

This series was sponsored by Korean Woman Scientists and Engineers. The joint KWSE (Korea)-KWiSE (USA) webinar series 2019 has been extended to Canada. This year, Korean women researchers from three countries, Korea, the USA, and Canada, meet twice a month and run bi-weekly webinar series. Webinar topic areas include life science, data science, ecoscience, aerospace science, defense science, engineering science, etc. The speakers for the 2022 webinar series are listed below.

The 1st KWSE-KWiSE Global Webinar

Date/Time: US: March 22, 2022, 9-10:30 PM EST

Title: 과학기술이 만드는 세상

About the speaker: Dr. Sung-Jin Ju is a senior scientist at the Agency for Defense Development (ADD), and the former (14th) KWSE president



Dr. Ju received BS and PhD from Hanyang University in Mathematics. The mission of ADD is to research, develop, test and evaluate weapon systems, equipment, and related technologies to reinforce defense capabilities for self-reliant national defense. During her talk, she covered the power of science and technology, the mission and history of ADD, weapon systems development history, and introduced case studies, and examples of civilian use of military technologies.

The 2nd KWSE-KWiSE Global Webinar

.Date/Time: US: April 12, 2022, 9-10:30 PM EST

Title: Germs, Antibiotics, and Alternatives to Antibiotics in Animal Agriculture

About the speaker: Dr. Hyun Lillehoj is a supergrade research immunologist at the Agricultural Research Service, USDA. Dr. Hyun Lillehoj is recognized worldwide for her expertise in avian immunology and as a leading authority on the research and development of antibiotic alternatives for the prevention and treatment of poultry diseases. Dr. Lillehoj's research has resulted in more than 490 original papers, 18 patents, and 105 commercial licensing agreements, and her accomplishments have been recognized by numerous awards, most notably American Service Medal for Career Achievement Award (Sammies America Medal) which is the highest award given to federal government workers. Dr. Lillehoj was inducted into the ARS Hall of Fame in 2014, AAAP Hall of Honor in 2021, and received the 2015 Presidential Rank Award. During her talk, she reviewed current knowledge on the underlying mechanisms of action of growth promoting drugs, the effects of antibiotics on gut microbiota and available alternatives to antibiotics.



notably American Service Medal for Career Achievement Award (Sammies America Medal) which is the highest award given to federal government workers. Dr. Lillehoj was inducted into the ARS Hall of Fame in 2014, AAAP Hall of Honor in 2021, and received the 2015 Presidential Rank Award. During her talk, she reviewed current knowledge on the underlying mechanisms of action of growth promoting drugs, the effects of antibiotics on gut microbiota and available alternatives to antibiotics.

NIH/ DC CHAPTER

2022 여성과학자 글로벌 웨비나



등록하기

월	이름	소속	주제
3월	주성진 Seong Jin Ju	대한여성과학기술인회 회장, 국립과학연구소	과학기술이 만드는 세상
4월	한현순 Hyun S. Lillehoj	USDA-Agricultural Research Service	Germes, Antibiotics, and Alternatives to Antibiotics in Animal Agriculture
4월	유상희 Sanghee You	Questor	Evolution of Drug Discovery Platform
5월	박성희 SungHee Park	세계김치연구소	Development of Vegan Kimchi for Export according to Global Consumption Trends
5월	백란 Ran Baik	호남대학교	인공지능 교육, 디지털전환을 이끄는 교육
6월	김여원 Yeowon Kim	Carleton University	도시공학, Safe-to-Fail Infrastructure for Urban Resilience to Extreme Weather Events
6월	김선미 Sunmee Kim	University of Manitoba	계량심리학, 사회/행동/보건과학 데이터를 위한 통계학의 활용
7월	정지선 Jeesun Jung	NIAAA / NIH	통계유전학, What Makes Biological Aging Accelerated? Implications for Epigenetic Aging in Alcohol
7월	이혜연 Hea Yeon Lee	Mara Nanotech New York, INC.	나노센서 기반 POCT, POC (Point-of-Care) Diagnosis Platform by Electrochemical Nanowell Biosensor
8월	최은정 Eun Jung Choi	한국천문연구원	우주상황인식, The Space Situational Awareness for Long-Term Sustainability of Space Activities
8월	이우경 Woo Kyoung Lee	한국천문연구원	우주탐사, Space Exploration in New Space Era
9월	레지나 리 Regins S. K. Lee	York University	우주물체감시, 광학감시기술, Image Analysis and Compression for Space Surveillance
9월	장혜주 Hyeju Jang	Univ. of British Columbia	자연어처리의 의료분야 응용, Dementia Classification based on Patient Language
10월	이영화 YoungWha Lee	Breeding Informatics Lead, CGIAR	양적유전학, Improving Smallholder Farmer Livelihoods through Technology Adoption and Innovation
10월	서울현 Eul Hyun Suh	UT Southwestern Medical Center	MR 이미징, Magnetic Resonance (MR) based Detection and Imaging of Metabolic Alteration in Disease
11월	김지선 Jiseon Kim	KAIST 과학영재교육연구원	과학영재교육, Perspective of College Environment and Career of Gifted Female Students Majoring in Science and Engineering
11월	정보현 Bohyeon Jeong	한국생명공학연구원	발생생물학, Biological Effects of Nanoplastic Exposure during Development

하반기 (한국 10시 / 미국, 캐나다 동부 20시)

NIH/DC Chapter Meet and Greet 2022

NIH and DC Chapters had the first in-person meeting in two years since COVID-19. The dinner gathering took place on April 23 at Dr. Dong-Yun Kim's house. Members greeted each other and three new recruits, Drs. Heejong Sung, Sooyoung M. Cho, and Sukeyoung Son over pizza and refreshments. Participants discussed planned events this year including the in-person annual joint chapter symposium and KWiSE forum on the impact of climate change on our lives. Members enjoyed the food and agreed on the need for more frequent in-person meetings in the future.



Meeting with Minister Kwon at the Korean Embassy

Dr. Dong-Yun Kim had a meeting with Dr. Seijoong Kwon, the minister and consul-general of the Embassy of the Republic of Korean, Washington DC. Dr. Kwon is the expert on climate change and environment and has represented the South Korean government on these issues for many years. Dr. Kim introduced KWiSE and its mission and Dr. Kwon agreed on the importance of close collaboration among scientists of two countries. He was impressed by the successful KWiSE forum on COVID-19 that NIH and DC chapters hosted last year. Dr. Kwon graciously agreed to speak at the upcoming KWiSE forum on climate change. Dr. Kwon asked Dr. Kim about KWiSE activities for the young generation of Korean heritage in US, and Dr. Kim mentioned mentoring program and Florence Nightingale Day event.



NIH/ DC CHAPTER

News from NIH Chapter Members

Dr. Myung Hee Park retires after 42 years at NIH



Dr. Myung Hee Park, a former KWiSE NIH chapter president (2017-18), retired after 42 years of service at NIH. Dr. Park is recognized for her pioneering research on the hypusine modification of eIF5A and on the functions of polyamines and eIF5A as key regulators in mammalian cells. First, she joined the Laboratory of Biochemistry at NIDCR as a visiting fellow in 1979, she became chief of the Molecular and Cellular Biochemistry in NIDCR in 1998.

Her work opened a new field of research that has revealed important clues about certain neurodevelopmental disorders. Dr. Park received a bachelor's degree from Seoul National University, Korea, a Ph.D. in chemistry from Brown University, and completed postdoctoral work in cell biology at MIT.

NIH news link:

<https://nihrecord.nih.gov/2021/07/23/nidcrs-park-retires-after-42-years-nih>

Dr. Dong-Yun Kim is elected as CWS president (2023)



Dr. Kim was elected as president of the Caucus for Women in Statistics (CWS). CWS is an international professional society for women in statistics. Founded in 1971, the organization's mission is to advance the careers of women statisticians through advocacy, providing resources and learning opportunities, increasing professional participation and visibility, and promoting research that impacts women. CWS has produced numerous women leaders in statistics for more than 50 years.

Dr. Kim is a mathematical statistician at NHLBI/NIH. Before joining NIH in 2013, she held a faculty position at Virginia Tech. Her research areas are sequential statistics, change-point inference, and statistical genetics. She has been involved in large NHLBI-sponsored clinical trials and intramural projects in MRI imaging, pulmonary disease, and cancer research. She is a board member of the Korean International Statistics Society (KISS). She received Ph.D. in Statistics from the University of Michigan, Ann Arbor.

Dr. Sun Jung Kang receives APPA scholarship award

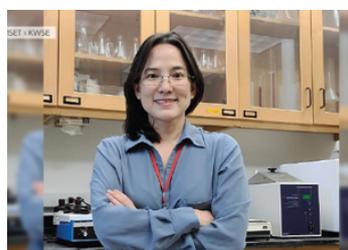
Dr. Kang got scholarship award from the 2020 American Psychopathological Association (APPA). At the APPA Conference, she presented "Association of objectively assessed sleep and physical activity with major depressive disorder and cardiovascular risk factors" at the APPA conference.



Dr. Kang is a Staff Scientist at NIMH. Dr. Kang focuses on the development of translational studies to identify the regulatory systems underlying motor activity and sleep across species by joint analysis of multiple domains. She worked as a statistician at Albany Stratton VA Medical Center and as an assistant professor at SUNY Downstate Medical Center before she joined NIMH. She received her BA in Mathematics from the University of Virginia, an MS in Applied Mathematics from New York University, a Ph.D. in Applied Mathematics and Statistics from the State University of New York Stony Brook, and post-doctoral training from Duke University and Case Western Reserve University.

News from Washington DC Chapter Member

Dr. Jinyoung Barnaby was introduced in the WISSET "She did it" campaign.



She Did It #47

미국 농무성에서 농작물의 미래를 설계하는 한국인 식물유전학자 양진영
미국 농무성 식물유전학자

Dr. Barnaby was nominated and selected for the "she did it" campaign in 2021 - interviewed by WISSET [Korea Foundation for Women in Science, Engineering, and Technology: founded to empower women in STEM in Korea to demonstrate their strength and contribute to social value]. The campaign she did it" is programmed to introduce successful stories of mid-career female scientists or engineers who are actively working in their f

field to young female Korean students who want to be a scientist/engineers. Annually, nominations are received by colleagues who are in the science and engineering fields and select a few women scientists/engineers based on their career/research achievements. In the campaign, numerous scientists or engineers in diverse scientific fields, e.g. life science, data science, earth science, physics, mathematics, chemical engineering, civil engineering, etc are introduced to let young students know what fields are available, what they can do, etc, to foster them. Barnaby was one of the nominees, and her Ph.D. work at Duke University on plant innate immunity and her ongoing USDA research efforts on promoting sustainable agriculture were appreciated and thus selected. The article was published at the

<https://m.blog.naver.com/wisetter/222607369907?referrerCode=1> on Dec 31, 2021

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KWise (Korean-American Women in Science and Engineering) is a non-profit organization of Korean-American women professionals in science and engineering.

We offer members opportunities for networking, career development, and mentoring for junior members and provide opportunities for collaborations. We promote international cooperation, especially between the United States and Korea.

Why KWise?

Most Science, Technology, Engineering & Mathematics (STEM) fields have seen growth in women over the years; however, there are still persistent challenges.

- While the ratio of women in Biological Sciences and Mathematics is close to 50%, there is a considerably lower proportion of women in higher-level positions. This is called the “leaky pipeline” or the “glass ceiling” problem.
- In Physical Sciences, Computer/Information Technology, and Engineering, the ratio of women is only about a quarter, which indicates a severe problem of recruitment into those fields of study.
- The proportion of Asian-Americans in leadership positions in STEM-related academia, government, and industry jobs are disproportionately low compared to other races. This is called the “bamboo ceiling” problem. In particular, Asian American Women show the lowest percentage in promotion in all STEM-related jobs. KWise aims to help address & solve these issues.

Together, we can make a difference!

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2022 Summer KWise Newsletter (Vol. 9, Issue 1) edited by Dr. Sung-Sil Moon (PR Director)