

Spring 2012



President's Remark

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Hello KWise members,

Spring is finally here with blossoms and birds' chirping. This made me think that the birth of KWise was like a beautiful butterfly hatching from its pupa. Last year many new members joined KWise. Although many of them hadn't heard of KWise before they joined, they became enthusiastic about being a part of KWise, once they found out about the community changing impacts that KWise can have. Meeting new members is always joyful and feels like seeing sisters whom I have not seen for a long time. It is probably due to the fact that we, as a woman scientist and engineer, have the emotional connection in our career and life. That is the foundation that keeps us together within KWise.

KWise relies on many volunteers. Without their contribution, KWise would not exist any more. First of all I would

like to express my gratitude to the executive committee, Dr. Hoh Eunha, Vice Presidents who also takes charge of publication of the newsletters and programs, Dr. Lim Minyoung who took care of public relations, and Dr. Yoo Eunjeong who takes charge of new membership. I would like to recognize volunteers who serve KWise as chapter presidents, Dr. Cho Seongeun (East coast), Dr. Ko Minhee (Los Angeles), Dr. Kim Gwe-Ya (San Diego), Dr. Park Yongjin (RTP) and Dr. Lee Cathy (Georgia). We organized KWise conference and social meetings, and presented KWise awards at KSEA- National Math and Science contest to girls with high scores. The chapter presidents have represented KWise at each region and supported career development for KWise members. The KWise advisory committee is also critical for the growth. In particular, Dr. Yang Esther, Dr. Han Gye Won and Dr. Kim Sooja are the key advisors for major activities and showed their generosity even further by personal donation to KWise. I would like to express my gratitude to all KWise supporters in KSEA, Dr. Lee Jongdae (2011

KSEA-SD president), Dr. Kim Jaehoon (39th KSEA president), and Dr. Lee Hosin (40th KSEA president). They promoted collaborative opportunity for KWise with the Korean Federation of Science and Technology Societies. In particular, I thank Dr. Lee Hosin for attending the KWise annual meeting, delivering his career advice, and providing a membership drive opportunity at KSTILC.

KWise added a new chapter last year in the southwest region, covering Georgia and Alabama. Approximately 50 new members attended the kick-off meeting. After the conference, the members shared their visions for KWise. I believe there are many potential KWise members, women scientists and engineers, who would like to network and help their colleagues and the young generation with sharing their knowledge and experience. I have done my best to find new members, build a network, and share our experiences under KWise. Our efforts will continue. I have no doubt that growth of KWise will continue not only in number of members, but also in quality of





Continued (President's Remark)

member service.

We will have a new president and executive team in August of this year. Dr. An Haejung is the president candidate, Dr. Yang Susan is the vice president candidate for the science section, and Dr. Kim Jihie is the vice president candidate for the engineering section. They will lead KWiSE to a next level. I am looking forward to seeing new changes in KWiSE.

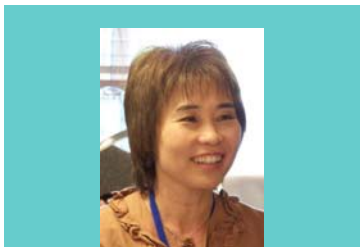
Here are my two cents to our new leaders;

1. KWiSE needs to have a specific plan to make the organization useful and beneficial to the members, including the young generation members.
2. KWiSE needs to have an interactive website to attract potential members, and provide a place for members to express their opinions and exchange ideas.

3. KWiSE needs to have a long term financial plan to be sustainable while growing.

It has been my honor and privilege to serve KWiSE as the president for the last two years. Everyone that I met was great and inspiring in many different ways. Thank you, everyone! Wish KWiSE the best!

—Sanghee Yoo, Ph.D.



President and VP Candidates for KWiSE : Dr. An Haejung (top), Dr. Kim Jihie (left), and Dr. Yang Susan (right)

2011 7th Annual KWiSE Meeting

The 7th KWiSE annual meeting was held on Oct 15th, 2011 in Santa Monica Double Tree. The annual meeting was to celebrate the founding of KWiSE. The keynote speakers were Dr. Lee Hosin, KSEA president, Dr. Han Gye Won, the founder of KWiSE, and Dr. Seo Eun-Suk, Professor in Astrophysics. Dr. Lee's presentation on "Which career path is right for you" was a huge success. Dr. Han's presentation on KWiSE was a very appropriate topic to celebrate the 7th anniversary of KWiSE foundation. She was chocked upon recalling the early days of KWiSE when it was hard even to get a small funding as little

as \$100. She shared her pride about the growth of KWiSE, and was proud of this 7th annual KWiSE meeting as the biggest meeting in the KWiSE history. For the first time, two parallel sessions, engineering and sciences, were held. Each session focused on career showcase for young generation. The speakers in the engineering session included Dr. Kim Jihie (USC, computer science), Dr. Jeon Christy (Parson, transportation engineer), and Dr. Han Hyo-Joo (Georgia Southern University). The speakers for the sciences session included Dr. Kwon Oyun (UCLA, Chemistry), Dr. Yoo Sanghee (Vertex

Pharmaceuticals, Research), and Dr. Kim Gwe-Ya (UCSD, Medical Physics). After the session presentations, the meeting was adjourned in the general ballroom followed by a fun raffle session. Several raffle prizes were donated by KWiSE members. Additionally, Labogene donated a centrifuge as a raffle prize, for which Dr. Kim Jihyun was the recipient. The grand prize was a "kindle-fire" worth Amazon gift card (contributed by KWiSE). It was a meaningful annual meeting to recognize the growth of KWiSE, and to provide advice to young students for their successful career in science and technol-



Dr. Lee Hosin



Dr. Han Gye Won



Dr. Seo Eun-Suk



WiSE Forum at UKC 2011

The theme of 2011 WISE forum was “Overcoming challenges as female scientists and engineers in their career”. The first speaker was Professor Oh Myoung Sook from Chemical Engineering Department of Hongik University, Korea. Her topic was “Education of female engineering students”. The population of female engineers in Korea is only 5.2% of the total engineer population, and the engineering fields are extremely male dominating. She mentioned the confidence levels of female students are very low despite good grades and working ethics. She stated that the female students were being exposed to “Chilly climate”, describing the male oriented education environments at many universities. Projects are traditionally driven by men and led by older guys who came back from the military duty. To overcome these problems, she suggested “Inclusive education” for the female students. Faculty members have to recognize the differences between the genders and identify curriculums that are appropriate for female students in recognition, aims, and objectives. Korea WISE is the supporting organization and is trying to implement programs for female engineers to follow through their education.

The second speaker was the renowned Professor Kim Narry from Seoul National University. Her presentation title was “Hidden genome and new opportunities”. She discussed a gap between Korea’s publication rank in science and

its recognition in the world. The speaker suggested Korean scientists need to contribute more to the scientific community in order to be recognized by international scientist communities, and concluded her talk with the discussion on human genome.

The third speaker was Dr. Yang Esther, Senior Director at Abbot. Her title was “How to become a successful scientist in a global economy”. She has been working on diagnostics, and described the importance of her work in the global economy. The population is aging with many diseases. 80% of budget in health care are being spent on chronic diseases, making diagnostic kits high in demands for early direction and follow-ups. In this complex, intertwined and fast moving world, we

need to adapt to changes, integrate information from multiple sources, communicate directions clearly and provide situational leadership in real time. Dr. Yang emphasized supervisors and managers need to build a strong foundation for leadership development. In this competitive economy, key factors in future leadership building include clear communication, rapid adaptability, customer oriented conversation (customers are people we

are facing at work), risk management, and intellectual value creation.

The last speaker was Dr. Hwang Tae Souk, Dean of school of medicine, Konkuk University, Korea. Her title was “Leadership, Nature or Nurture” She told her personal story of soft leadership in the male dominating medical society in Korea. She was one of the few female medical students. She had never thought of leading anything, but only followed what were expected by parents, her husband and peers. When she was asked to become the dean of Konkuk medical school, she took it with hesitation by asking people not to expect her to be the



same as other male counterparts. She turned out to be a better listener and a soft negotiator, who became more successful than the forceful negotiators that her colleagues were used to. As a result, her family members and colleagues recognized her leadership as different from the traditional leadership style, and she was able to find her inner side leadership that was nurtured by opportunities.

The female students are exposed to “Chilly climate” describing the male oriented education environments at universities.

KWiSE Woman Scientist Award

Dr. Hey-Kyoung Lee is the recipient of 2011



KWiSE Woman Scientist Award and the fifth awardees since 2007. Dr. Lee is an Associate Professor in Department of Neuroscience at Johns Hopkins University, Baltimore, MD. Her research interest has focused on exploring the cellular and molecular changes that happen at the synapses to allow memory storage. Her current research also includes elucidating the events that occur in disease brains such as Alzheimer’s disease. At the UKC bio-summit, she was one of two main-speakers (the other was Dr. Gye-Won Han). She is active in the Eastern KWiSE chapter.

KWiSE Regional & Local Chapter Meetings

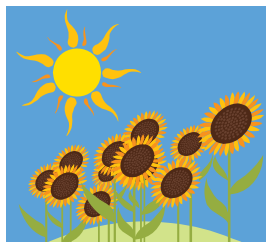


sity of Maryland. Dr. Sohyun Ahn from NIH presented her research on a key factor involved in the brain stem cell differentiation and development under the title of “Neurogenesis in the Fore-brain”. Dr. Jong-in Hahm from Georgetown University presented the latest nanotechnology development entitled “Interfacing Nanotechnology with Biology and Medicine”. At the panel discussion, all attendees shared their experiences as female scientists when faced with career selections and job interviews, and discussed how they manage the balance between life and work. The conference concluded with positive notes from the attendees that the meeting provided a great opportunity to meet scientists from various places and to build a professional and social network.

As women scientists when faced with career selections and job interviews and discussed how they have been managing the balance between life and work

The 6th Annual East Coast meeting was held in the KUSCO conference room in Vienna, VA, on May 14th. The meeting was attended by scientists and professionals from industry, government agencies and academia in the participating region. The meeting opened with the welcome remarks by Drs. Seoungun Cho (President of the East Coast Chapter) and Jae Hoon Kim (president, Korean-American Scientist and Engineers Association). The theme of

the 1st session was “Science and Beyond”. Dr. Ildiko Antal from Bristol-Myers Squibb, NJ presented a scientist’s life from bench to bedside and shared her experience in how she has managed her career as a mother and a scientist. Dr. Jessica Kim from FDA delivered statistical considerations on non-inferiority study design in clinical trials for new drug development. The afternoon session was chaired by Dr. Hey-Kyoung Lee from Univer-



Continued

The 5th Annual West Coast meeting was held in Doheny Eye Institute, Los Angeles, CA on May 14. The meeting was

begun with the welcoming remark from the KWiSE president, Dr. Yoo Sanghee. The key note speaker was Dr. Jae

Jung, Chair of molecular microbiology and immunology department at the University of Southern California.

Importance of communication skills in everyday life of research.to speak more actively to advisors what you need and involve in many activities at work



Continued

He presented “Autophagy”, the garbage cleaning system in cells. He showed the identification of new players in autophagy, Rubicon and FLIP proteins. These players are also important in our immune system. The second session was organized by two sponsors. IGE sponsored the West coast meeting luncheon and the director presented the activities of IGE. IGE is a non-profit organization that provides working experiences via internship to international students. KWiSE member, Dr. Woo JeongIm (co-organizer of the meeting) worked with two Korean interns arranged by IGE. The second speaker was Dr. Cho Do Hyun from Korea Health Industry Development Institute (KHIDI). He shared the missions of KHIDI. One of critical missions is to promote collaboration between Korea and other countries and build network with other countries. KHIDI also supports many consortia as the key driver for research and development. The third session was chaired by Dr. An Hae Jung. Dr. Park Hyunsook shared her personal journey to becoming a professor at Calstate university.

She emphasized that writing a good teaching philosophy as important as many proofs of independent research capability. Dr. Lee Sun Young. She talked about the importance of communication skills in everyday life of research. She recommended to speak more actively to advisors your needs, and be involved in many activities at work. It was very informative meeting and concluded with positive feelings on the role of KWiSE.

The RTP KWiSE members gathered on September 30, 2011 for networking dinner with an invited speaker, Dr. JiYoung Park from Duke. Because of unexpected inclement weather, some people were not able to attend the meeting. Total 10 attendants including scientist and engineer researchers in companies, postdoctoral researchers and graduate students attended the meeting. The speaker, Dr. Park, presented a talk about her new job in FDA, and advices for how to search jobs and process interviews. The attendants also discussed about how to balance between career and personal life and also plans for

KWiSE-RTP. The newest KWiSE chapter, Georgia-Alabama KWiSE members had their second meeting at Seo Ra Beol, Atlanta, GA, on December 3, 2011. Sixteen members attended the meeting and had an election for the new leaders for the Georgia-Alabama chapter. Dr. Cathy Lee (Gordon

Are you interested in creating your local KWiSE chapter? Please contact us (info.kwise@gmail.com)



College) was elected as President, Dr. Cho Sunyoung (Georgia Gwinnett College) as vice president, and Dr. Moon Sungshil (CDC) as the secretary.



Community Outreach

☺ KWiSE presented KWiSE Awards to the top scoring high school girl students at the 2012 KSEA National Math & Science competition (KSEA-NMSC). Congratulations to the recipients!

☺ Awardees:

San Diego:

- Na Yeon Lee (9th grade, Calvary Murrieta Christian School)
- Sarah Bhattacharjee (10th grade, Torrey Pines High School)
- Namyoon Kwon (11th grade, Eastlake High School)

Los Angeles:

- Seo Surin (10th grade, Crescenta Valley High School)



Photos in KWiSE Activities



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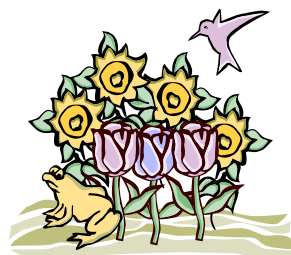


Book:

Editor's Recommendation

2012 is the 50th year since Rachel Carson's landmark book, "Silent Spring", was published. As we are humans and woman scientists, we will learn the morality and courage of Rachel Carson. According to Al Gore, "In 1962, when "Silent Spring" was first published, "environment" was not even an entry in the vocabulary of public policy." The book and Rachel Carson, who had once worked as a marine biologist for the Fish and Wildlife Service, met with considerable resistance from the industry profiting from pollution. She was accused of being hysterical and extremist. Without her work, and more importantly her courage, our environment would have been in much worse danger.

- KWiSE Chapter Presidents**
- SD: Kim Gwe-Ya (UCSD)
 - LA: Ko Minhee (USC)
 - RTP: Park Youngjin (SAS)
 - Great Washington: Cho Sungeun (FDA)
 - NIH: Kim Hee Young (NIH)
 - Georgia-Alabama: Lee Cathy (Gordon College)



- KWiSE Executive Committee:**
- President: Yoo Sanghee (Vertex)
 VP: Hoh Eunha (SDSU)
 Executive director: Kim Gwe-Ya (UCSD)
 Treasurer: Lee Youngshin (SDSU)
 Membership director: Yoo Eunjeong (TSRI), Yoo Julie (USC)
 Webmaster: Kim Na Young (General Atomics)
 Public Relations: Lim Minyoung (USC)
 Publication Directors: Koo Dong-In (UCSD), Jeong Chaim (UCSD)
 Advisory Committee: Han Gye Won (TSRI), Yang Ester (Abbot), Jung Mira (Georgetown U), Kim Sooja (NIH), Song Minkyung (NIH)

Acknowledgements

We acknowledge the KWiSE members who provided the meeting summary reports. Thanks to KSEA, KUSCO, KOFST, KOSEN, KHIDI, and NIS-WIST for their financial support for KWiSE activities, including the publication of this Newsletter. We also appreciate the local sponsors and personal donations from KWiSE members. Finally, thank you all for your supports and participation.



6th Annual West Coast Symposium

When: Saturday, May 5th 2012
9:30AM – 3:30PM

Where: Goldberg Auditorium (2nd floor)
Moore's UCSD Cancer Center
3855 Health Sciences Drive
La Jolla, CA 92093

RSVP to gweyakim@gmail.com



Online Abstract Submission - UKC 2012

Abstract Submission Deadline: May 31, 2012. (Extended)

WiSE Forum at the UKC 2012

✓ KWise will organize WiSE forum in UKC 2012 on August 11. Details of topics and subjects will be available in the webpage of UKC 2012 (<http://ukc.ksea.org/ukc2012/default.asp>). We expect to see many KWise members at the forum.

KWise 7th Annual East Coast Conference

- ✓ When: Saturday, June 16th, 2012, 9:30AM—3:45PM
- ✓ Where: KUSCO Headquarter, 1952 Gallows Road, Suite 330, Vienna, VA
- ✓ Session 1: Science and Leadership at a Public Sector
- ✓ Session 2: Forefront Research
- ✓ Session 3: Special Topic: Collaborations for Success and Beyond

KWise 2nd Annual Georgia-Alabama Conference: Hyatt Place at Duluth, GA, Apr 7, 2012

7:30 am – 8:20 am	Registration
Session 1	General Session
8:30 am – 9:00 am	Keynote Speaker 1: Dr. Soojin Yi (Associate Professor of Biology, Georgia Institute of Technology)
9:00 am – 9:30 am	Keynote Speaker 2: Dr. Sohyun Park (Research Scientist, Epidemiology, Center of Disease Control)
9:30 am – 9:45 am	Break
Session 2	Panel Mentoring Discussion
9:45 am – 12:00 pm	Presentation: Short Tips for College Teaching Career: Prof. Cathy Lee (KWise SE Chapter President) Discussion 1: “Now you got a Ph.D., what is next for searching the best career? Research Career or Teaching Career at the College?” Discussion 2: Survey Report for short and long-term goals of KWise-SE Chapter Facilitator: Prof. Sunyoung Cho (KWise SE Chapter Vice-President)
12:00 pm – 1:00 pm	Networking Lunch
1:00 pm – 3:00 pm	Executive member meeting with invited leaders for development of chapter future plans

Agenda

6 TH WEST COAST SYMPOSIUM PROGRAM SATURDAY MAY 5 TH , 2012 – GOLDBERG AUDITORIUM	
9:30-10:00	Registration/Breakfast
10:00-10:15	Opening/Welcome Remarks Chair: Dr. SangHee Yoo, KWise president, Vertex Pharmaceuticals
10:15-12:30	Morning Session Chair: Dr. HaeJung An, U.S. Food and Drug Administration
10:15-11:00	“Role of Interdisciplinary Computational Science in Biosciences and Biotechnology: Integrative Approaches to Neurological Disorders” Dr. Susan Yang, Chapman University
11:00-11:45	“Global Partnering Opportunities under Korea-US FTA” Hojoon Kim, Deputy Director, KOTRA
11:45-12:30	“Regional and Economic Impacts Induced by Climate Change” Dr. Menas Kafatos, Chapman University
12:00-1:30	Group Photo/Luncheon/Networking
1:30-3:30	Afternoon Session Chair: Dr. Eunha Hoh, San Diego State University
1:30-2:15	“Above Science: A Journey of Chronic Diseases” Dr. Young-Shin Lee, San Diego State University
2:15-3:00	“A Long Journey to Find a Job : Lessons and Tips from Personal Experiences ” Dr. Eunyong Ahn, University of California San Diego
3:00-3:30	Silent Auction Chairs: Dr. Jung-Joo Hwang & Dr. Young-Shin Lee
3:30	Closing Remarks/Adjourn Chair: Dr. Gwe-Ya Kim, KWise-SD Chapter president

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Publisher: Sanghee Yoo
Editor: Eunha Hoh
Associate Editor: Dong-In Koo

