

The 4th EAPSI-Korea Conference



8.9-10.2013

Courtyard Marriott Hotel, NJ



I. OVERVIEW

▶ BACKGROUND

- EAPSI-Korea program (also known for Korea Summer Institute) was established through the memorandum of understanding between National Research Foundation of Korea (formally KOSEF) and National Science Foundation in July, 1995. Since 1996, EAPSI-Korea program provides US graduate students in science and engineering with first-hand research experience in Korea during the summer for two months.
- Every-year, NRF invites about 20~25 US graduate students in order to introduce them to Korean science and engineering in the context of a research laboratory, and to experience a new professional culture. Up until today, there are 249 participants in total.

<Total number of Participants>

YR	'96	'97	'98	'99	'00	'01	'02	'03	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	Total
No.	10	8	12	9	6	6	17	11	10	24	14	15	15	8	25	20	25	14	249

▶ EAPSI-Korea Conference

- Since 2010, KUSCO has organized the conference meeting in the U.S. to strengthen cooperation in S&T between the U.S. and Korea through networking among participants based on research and cross cultural experience

▶ Conference AGENDA



II. AGENDA

- NAME : The 4th EAPSI-Korea Conference
- DATE : August 9th ~ 10th, 2013
- ATTENDEE : 54 in total (Program Participants: 49 + Other Invitees: 5)
- AGENDA

DATE	CONTENTS	REMARKS
< Aug. 9th >		
15:30 ~ 16:00	Registration	
16:00 ~ 16:30	Poster Presentation & Networking	
16:30 ~ 16:45	Opening Remarks	• Dr. Seung Jong Lee, President of NRF
16:45 ~ 17:00	Introduction of KUSCO Programs	• Dr. Jong-Deok Kim
17:00 ~ 17:40	Presentation on EAPSI-Korea Experience	• Barbi Wheelden (2012) • Michael Lee (2012)
17:40 ~ 18:40	Leadership Workshop	• Dr. Dennis Hong, <i>Virginia Tech</i> • Dr. Daniel Lofaro, <i>GMU</i>
18:40 ~ 20:00	Banquet	
20:00 ~	Korean Cultural Event & Conference Closing	
< Aug. 10th >		
08:00 ~ 09:30	Breakfast	Courtyard Marriott
09:30 ~ 12:00	Participating in UKC 2013	Sheraton Meadowlands Hotel
12:00 ~ 13:30	Lunch	Sheraton Meadowlands Hotel
13:30 ~ 16:00	Young Generation and Professional Forum	Sheraton Meadowlands Hotel

- Guests










NAMES	OCCUPATION	CONTACT
Dr. Seung Jong Lee	President, National Research Foundation of Korea	
Dr. Dennis Hong	Associate Professor & Director of RoMeLa, Virginia Tech.	dhong@vt.edu
Dr. Jong-Deok Kim	Director, KUSCO	jdkim@kusco.org
Mr. Woojin Lee	Program Director, KUSCO	wojinlee@kusco.org
Ms. Woojin Chang	Program Manager, KUSCO	wjchang@kusco.org




III. LIST OF PARTICIPANTS






#	Year		Name	Institution	Occupation	Email
1	2012		Dewi Harjanto	Boston University	Postdoctoral associate	dewi.harjanto@gmail.com
2	2012		Richard Henrikson	University of California, Berkeley	Graduate Student Researcher	rhenrikson@gmail.com
3	2012		Elaine Lee	University of Pennsylvania	PhD Candidate	lelaine@seas.upenn.edu
4	2012		Michael Lee	University of Washington	PhD Candidate	mikaly@gmail.com
5	2012		Michael Okyen	Virginia Tech	Controls Engineer at HDT Robotic, Inc	mokyen@vt.edu
6	2012		Oyindamola (David) Oluwatimi	Purdue University	Student/ Research Assistant	ooluwati@purdue.edu
7	2012		Gregory Reeves	New Mexico State University	Master's Research Assistant	gregree@nmsu.edu
8	2012		Brian Seok	University of Colorado Boulder	PhD Candidate	seok@colorado.edu

9	2012		William Sharpee	NC State University	PhD candidate	wcsharpe@ncsu.edu
10	2012		Dana Vogtman	University of Maryland	Graduate Research Assistant	dvogtman@umd.edu
11	2012		Barbara (Barbi) Wheelden	Ohio University	Graduate Research Assistant	barbiwheelden@gmail.com
12	2012		Yair Korenblit	Georgia Institute of Technology	Sr. Graduate Engineer at Securaplane Technologies Inc.	ykorenblit@gmail.com
13	2012		Joshua Williams	Texas A&M University	Doctoral Student-	jwilliams@ocean.tamu.edu
14	2012		Michael Witek	Northwestern University	PhD Candidate	mwitek@earth.northwestern.edu
15	2011		Charles Brummitt	University of California, Davis	PhD	brummitt@gmail.com
16	2011		Walter Hannah	Colorado State University	Graduate Student	whannah@atmos.colostate.edu
17	2011		Cedric Jacob	University of Delaware	PhD	cjacob@udel.edu

18	2011		Kenneth Kort	University at Buffalo	Research Assistant	kenrkort@gmail.com
19	2011		Suman "Sue" Lam	University of California, Irvine	American Productivity and Quality Center; Research Specialist	sumanl@uci.edu
20	2011		Soshana Smith	Cornell University	Graduate Student	sas265@cornell.edu
21	2011		Kalon Lasater	University of Delaware	R&D Project Engineer at Barrday Composite Solutions	lasater@udel.edu
22	2011		Aurora MacRae-Crerar	University of Pennsylvania	PhD	aurorama@sas.upenn.edu
23	2011		Christopher Ryan	University of Louisiana, Lafayette	Adjunct Instructor	ceryan83@gmail.com
24	2010		Joseph Hagmann	University of Notre Dame	Graduate Research Assistant	jhagmann@nd.edu
25	2010		Sunny Shah	University of California, Davis	Senior Scientist, University of Notre Dame	sshah1@nd.edu
26	2010		Joseph Kim	Vanderbilt University	PhD Candidate	dwqkim@gmail.com

27	2010		Casey Galvin	North Carolina State University	PhD Candidate	casey.j.galvin@gmail.com
28	2010		Lindsay Halladay	University of California, Los Angeles	Postdoctoral Researcher	lrhalladay@gmail.com
29	2010		Katherine Kim	University of Illinois Urbana-Champaign	Ph.D. Student	katakim@gmail.com
30	2010		Bob Sherbert	Drexel University	Consultant at Carbide Labs	bob.sherbert@gmail.com
31	2010		Daniel Young	University of Tennessee HSC	Ph.D. Candidate	danielyoung@gmail.com
32	2010		Kimberly Lau	University of California at Berkeley	Graduate Student	kimberly.m.lau@gmail.com
33	2010		Dannielle Figueroa	Drexel University	University of Pennsylvania, Postdoc Fellow	danni.solomon@gmail.com
34	2009		Diane Kim	University of Southern California	Undergraduate Programs Coordinator	dianekim@usc.edu ; diane.y.kim@gmail.com
35	2009		Jonathan Leiner	University of Notre Dame	Postdoctoral Researcher at Oak Ridge National Laboratory	jleiner@alumni.nd.edu

36	2009		Jake Lennon	University of Louisiana-Lafayette	University of Louisiana at Lafayette, Adjunct Professor	jake.lennon@gmail.com
37	2008		Daniel Lofaro	Drexel University	George Mason University Assistant Professor	dan@danlofaro.com
38	2008		Corey Stambaugh	Univ. of Florida	NRC Postdoctoral Researcher at NIST	c.stambaugh@hotmail.com
39	2008		Bryce Sadtler	Univ. of California at Berkeley	Post-doctoral Research Fellow at the California Institute of Technology	brysad@gmail.com
40	2008		Thai Chu	Univ. of California, Santa Barbara	Envision Schools, Learning Specialist	thaichu@gmail.com
41	2008		Hui Son	Duke Univ.	PhD	huison@gmail.com
42	2008		David Tahmoush	Univ. of Maryland	ARL, engineer	dtahmoush@gmail.com
43	2007		Nastaran Hashemi	Virginia Tech	Assistant Professor at Iowa State University	nastaran@iastate.edu
44	2005		Charles Chang	University of California, Berkeley	Lecturer at Rice University	cbchang@post.harvard.edu

45	2005		Ladan Mohaddes-Ard abili	University of California	Patent Examiner, US PATENT AND Trademark Office	ladan.mohaddes@gmail.com
46	2003		Hyun-Kyung Chung	Univ. of California-LA	GE Healthcare, MR Systems Engineer	hkchungusa@hotmail.com
47	2003		David Sorensen	Texas A&M University	Staff Software Engineer at National Instruments	mightysorensen@hotmail.com
48	2003		Bryan Murphy	Texas A&M University	Dynamics & Control Systems Engineer at Boeing	juggler2000@yahoo.com
49	2002		Jason Fleming	North Carolina State Univ.	Chief Engineer at Seahorse Coastal Consulting, LLC	jason.fleming@seahorsecoastal.com

V. EAPSI-Korea Leadership Workshop

● Guest Speaker1



Dr. Dennis Hong

Associate Professor & the Founding Director of RoMeLA of the Mechanical Engineering Department at Virginia Tech

Dr. Dennis Hong, a TED alumnus, is an Associate Professor and the Founding Director of RoMeLa (Robotics & Mechanisms Laboratory) of the Mechanical Engineering Department at Virginia Tech. His research focuses on robot locomotion and manipulation, autonomous vehicles and humanoid robots. He is the inventor of a number of novel robots and mechanisms, including the 'whole skin locomotion' for mobile robots inspired by how amoeba move, a unique three-legged walking robot STRiDER, an air-powered robotic hand RAPHaEL, and the world's first car that can be driven by the blind. His work has been featured on numerous national and international media. Washington Post magazine called Dr. Hong "the Leonardo da Vinci of robots."

Dr. Hong has been named to Popular Science's 8th annual "Brilliant 10", honoring top scientists younger than 40 years of age from across the United States, "Forward Under 40" by the University of Wisconsin-Madison Alumni Association, and also honored as "Top 40 Under 40" alumni by Purdue University. Hong's other past awards include the National Science Foundation's CAREER award, the SAE International's Ralph R. Teetor Educational Award, and the ASME Freudenstein / GM Young Investigator Award to name a few. Dr. Hong also actively leads student teams for various international robotics and design competitions winning numerous top prizes including the DARPA Urban Challenge where they won third place and the \$500,000 prize, and the RoboCup, the international autonomous robot soccer competition where his team won First Place in both the Kid-Size and Adult-Size Humanoid divisions and brought the Louis Vuitton Cup Best Humanoid Award to the United States for the very first time.

Dr. Hong received his B.S. degree in Mechanical Engineering from the University of Wisconsin-Madison (1994), his M.S. and Ph.D. degrees in Mechanical Engineering from Purdue University (1999, 2002).

● Guest Speaker2



Dr. Daniel Lofaro

George Mason University Assistant Professor & DARPA Robot Challenge Track-A (DRC-Hubo) Team Member

Daniel M. Lofaro Ph.D. graduate from the Electrical and Computer Engineering Department at Drexel University and works at the Drexel Autonomous Systems Lab (DASL) at under Dr. Paul Oh and is currently researching Complex Control Systems and Robotics. Daniel's dissertation title is Unified Algorithmic Framework for High Degree of Freedom Complex Systems and Humanoid Robots. Recent achievements include:

Doctoral recipient, Electrical and Computer Engineering Department at Drexel University, 2013

Designed Hubo to Throw First Pitch at Major League Baseball Game, 2012

NSF-Graduate Research Fellowship Program (GRFP) Honorable Mention, 2009

NSF-East Asia and Pacific Summer Institutes (EAPSI) Fellow, 2008

Lester Kraus Award, 2008

Dean's Fellowship, 2008

Honors College - Graduated Honors with Distinction, 2008

Drexel University, Cum Laude, BS/MS, 2008

VI. Korean Cultural Performance



KUSCO Presents:

EXPERIENCE

"Korean Cross-Cultural Music"
with
Rami Seo's Project
<World Music Ensemble>

[Musicians]

25 strings Gayageum: Rami Seo, Koara Kim,
Naomi Park
Contrabass: Joonsam Lee
Piano: Willerm Delisfort
Percussion: Satoshi Takeishi

- PROGRAM -

Pachelbel' s Canon (3' 50")

Rearr. by Scott Ethier & Rami Seo

A rearrangement of Pachelbel' s canon in G for World Music Ensemble

A Mid - Summer Night at Bryant Park (4' 50")

Composed by Sunhee Anna Hur

A rearrangement of the most established folk song in Korea, ARIRANG,
for three 25 strings Gayageums

A Woolsan Lady (3' 40")

Rearr. by Jihye Choi

A rearrangement of a Korean folk song, WOOLSAN AGASSI, for Music Ensemble

Racing Through The Prairie (4' 50")

Composed by Hojoon Hwang

A lively piece that displays the friendship and energy of Mongolian horses
as they race across the grasslands

VII. Young Generation and Professional Forum in UKC 2013

August 09, Friday

■ Session: Young Generation and Professional Forum I

Time	Presenter	Affiliation	Title
2:20	Yongho Sohn	University of Central Florida	A Day in the Life of A University Faculty: Perspective from 1.75 Generation Korean-American
3:00	Break		
3:20	Jane Oh	Jet Propulsion Laboratory - NASA	Women Leaders at NASA
4:00	Break		
4:20	Career Panels: Industry and Academia		

August 10, Saturday

■ Session: Young Generation and Professional Forum II

Time	Title
2:00	Poster Session (See List of Posters and Location below)
4:00	Break
4:20	Team Competition
5:00	Break
5:20	YGPF Awards Ceremony
5:40	Break

* List of Posters

Category	Presenter	Affiliation	Title
Leadership	Hyunkyung Lee, Mi Hye Cho, Seung Hyun Yoon, Hojun Ji	Texas A&M University	Texas A&M University YG at its RISE
	Kyung Hwan Kim, Yunhwa Choi	Purdue University	KSEA YG Purdue on the Rise
	Yun Tae Cha	University of California Los Angeles	Preparing for a Successful General Meeting at Your Student Chapter
	Yuna Shim	University of Washington	University of Washington Korean Graduate Students Make Connections with KSEA
	Soo Eung Lee	University of Washington	KSEA YG in Seattle, Washington
	Daeun Park	Johns Hopkins University	KSEA Johns Hopkins University YG Chapter
Technical	Sunah Kim	Korea Environment Institute	Regulatory Aspects for the Safety Management System on Nanomaterials
	Ju Dong Park	North Dakota State University	The Magnitudes of economic and non-economic factors in demand for US domestic air passengers
	Joo In Jung	University of Florida	Therapeutic Potential of Endogenous Cholesterol Metabolites in Alzheimer's Disease
	Yong Shin Park	North Dakota State University	Passenger's Decision Model to Access Airport in the Presence of New Public Bus System: A Case Study
	Tak Yeon Lee	University of Maryland	Enhancing the Web With End-User Programming
	Sungjae Ha	Massachusetts Institute of Technology	Microfluidic Electric Impedance Spectroscopy for Malaria Diagnosis
	Dongho Lee	North Dakota State University	All Smile in Asia; It's all about the smile
	Sun Young Jeong	Columbia University	Pb2+ exposure as a risk factor for schizophrenia: parvalbumin expression in the striatum, frontal co
	Michael Lee	University of Washington	Increasing Novice Programmers' Engagement Using an Online Game
	Richard Lee	University of Washington Tacoma	Introducing Algorithmic Thinking to High School Students through Game-Based Problem Solving
	Heegun Yang	University of Washington Tacoma	Cloud-based Free and Open-Source Software (FOSS) Solution for Small Business and Non-Profit Organiza

	Jina Lim	Seattle Children's Research Institute	The Role of the Anterior Thalamus on Behavior in Early and Late Learning in a Contextual Learning Ta
	Dolim Lee	University of Pennsylvania, School of Medicine	Hepatic CREB is Not Essential for Glucose Homeostasis
	Haena Kim	Read Jones Christoffersen, Ltd.	Sustainable Transportation
	Seungeun Park	University of Washington	Data Visualization in Public Health Nursing
	Stella Chun	University of British Columbia; Genome Sciences Centre	Identification and validation of CDK13 Interacting Proteins
	Seung Cha	California State University, Fullerton	Interaction between MAGP-2 and Tie receptors

* location : UKC poster area at Sheraton Meadowlands hotel



*The 4th EAPSI-Korea
Conference*

<http://eapsi.kusco.org>

HOSTED BY



SPONSORED BY

