

Report on 2004 KPS-ASML- WISE Physics CAMP

September 30, 2006
Korean Physical Society

Presented by Youngah Park (Myongji University)
Chairperson Women Committee of KPS



Background of the Camp Project

- Women physicists consist of only 5% in Korea
- Girls are discouraged to show interest in science, especially in physics
- Need to bring more women into the mainstream and leadership of physics in order to make them equal partner in a technological society and enhance contribution to the society through physics by both genders.

- In April 2002, KPS established the **Women Committee** to improve the situation of women in the Korean physics community.
- Women Committee of KPS co-organized **physics camp for the high school girl students** with **WISE center** of Ewha Woman's University during the summer of 2002 and 2003.

WISE(Women into Science and Engineering) Center played a role of recruiting students and provided administrative activities for the camp.

- **Goals of Physics camp for girl students.**
To give them an opportunity
to work and interact with working physicists
and to be motivated in physics and
enhance smart girl networking,
- **With the donation from the Foundation ASML Trust,**
KPS could double the size of the 2004 physics
camp and much more attentions were given to the
camp among high school girl students.

Camp Schedule

- **July 9 - 28: Announcement and registration**
- **July 30: Matching students and laboratories**
- **Aug. 2 - 6 : Laboratory-visiting
and research-participating program**
- **Aug. 11 - 12: Two-day camp at the WISE Center of
Ewha Woman's University**
- **Presentations are evaluated and awarded**

- **Number of Participating students**
77 students from all over the country
- **Number of Participating Laboratories**
20 excellent University and Research Institute Labs.
- **Three or four students were arranged to visit a laboratory and members of each of twenty teams did basic experiment for the period of five days.**
- **After they finished visiting programs, they prepared cooperatively to present their result.**
- **Mentor: Professors and graduate students.**

At the laboratories







On - Site Camp Daily Schedule

Date	Time	Program
First day (Aug. 11, 2004)	13:00 - 13:30	Registration
	13:30 - 13:50	Opening Ceremony
	13:50 - 15:20	Oral Presentation I (5teams)
	15:20 - 15:40	Recess
	15:40 - 16:45	Special Lecture I
	17:00 - 18:30	Oral Presentation II(5 teams)
	18:30 - 20:00	Dinner
	20:00 - 21:00	Oral Presentation III (5 teams)
	21:20 - 23:00	Dialogue with graduate students and buddies
23:00 -	Sleep	
Second Day (Aug. 12, 2004)	09:00 - 10:40	Oral Presentation IV(5 teams)
	10:40 - 11:00	Recess
	11:00 - 12:00	Poster Presentation
	12:00 - 13:30	Lunch
	13:30- 14:30	Special Lecture II
	14:30- 15:30	Evaluation and Award ceremony

Opening Ceremony (Aug 11, 2004)



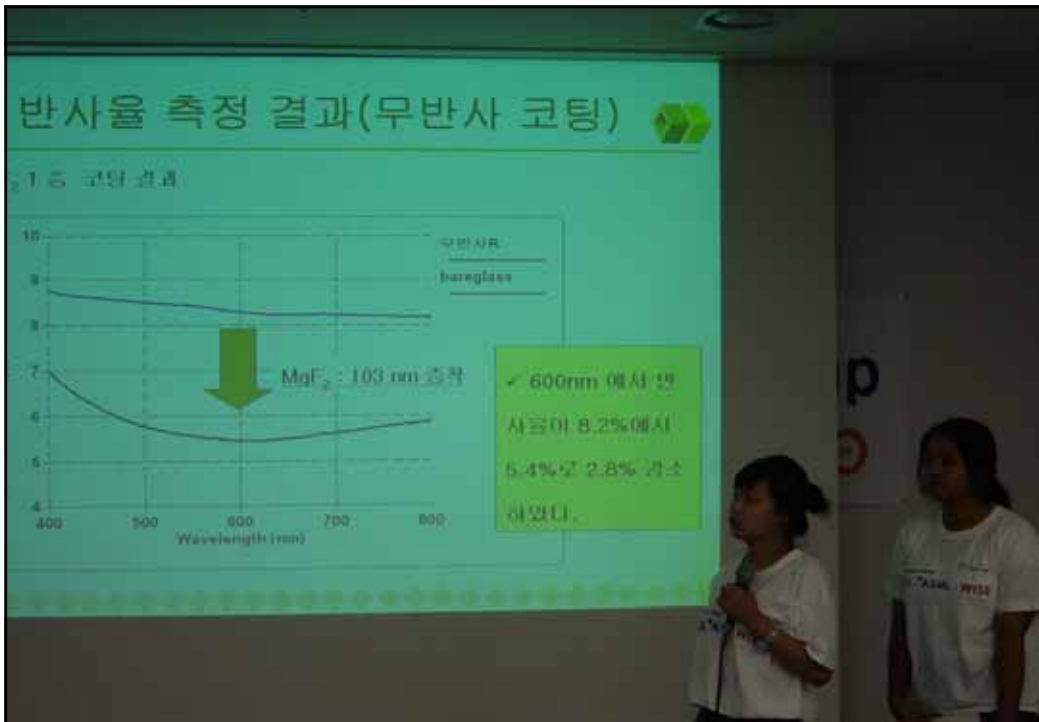
Opening remark from KPS President



Congratulating remark from WISE Center President

Oral Presentation







- Questions from evaluating professors



Special Lecture I

Prof. Soo-bong Kim (Seoul National Univ.)
Title: Big Bang and the Early Universe

Special Lecture II



Dr. K. W. Jung (KRISS)

Title: Vacuum Technology in Everyday Life

Dialogue with graduate students and buddies



Poster Presentation









Evaluation Committee



Closing Ceremony (Aug. 12, 2004)



Awarding a certificate of camp participation



Evaluation Comment
Chairman of the committee Professor Jun Tak Lee

KPS President Prize



KPS President Prize

- Recipients: Jang Eunyoung, Jo Hyegeun (Suwon Girls' High School), Lim Soran (Sawoo High School)
Title: Study on OLED at Nano Structure and Display Lab
- Mentor: Professor S-H Choi and
graduate student Jang Inhee,
Kyunghee Univ. (Suwon)
- Awarded a chance to visit ASML in Netherlands.
- Chosen to be Korean Students delegates to participate the "Physics for Tomorrow", Launching Conference of the International Year of Physics 2005, Jan 13-15 at UNESCO Headquarters in Paris



**Study Trip to Netherlands and Conference
in Paris by the winning team members of
KPS President Prize
(Jan 10-Jan 19, 2005)**

Tuesday January 11 in Paris: Orsay Museum, Notre
Dame Cathedral, Tour Eiffel

- **Wednesday January 12 in Paris:** Louvre Museum, Arc
de Triumphe, Rodin Museum
- **January 13-15 in Paris:** "Physics for Tomorrow"
- **Launching Conference of the International Year of
Physics, Unesco Headquarters**

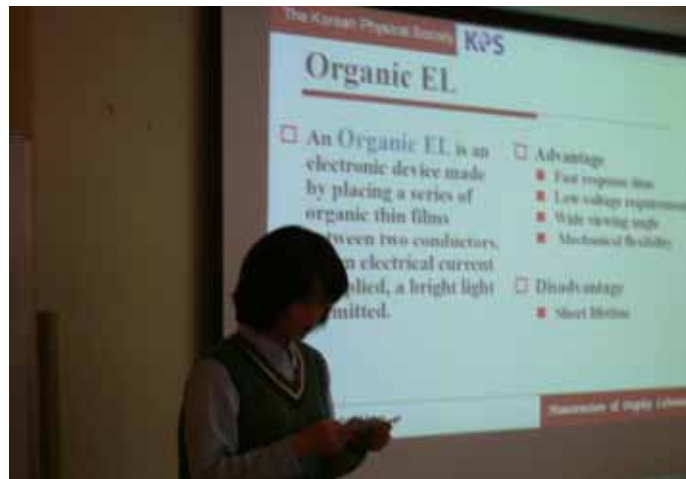
Visiting Netherlands

- * **Sunday January 16 in Amsterdam:** Van Gogh Museum,
- Anne Frank House, riding a museum boat
- * **Monday January 17 in Eindhoven :**
- Visiting ROC Eindhoven (ROC=Regional Education Center)
- Visiting PSV Soccer club Eindhoven, Training centerg
- **Tuesday January 18 in Veldhoven:**
- Visiting Sondervick College, High school in Veldhoven
- Visiting ASML Headquarters in Veldhoven

Visiting ASML Headquarters



Presentation at ROC in Eindhoven



Visiting PSV soccer club



Sondervick College class



“Physics for Tomorrow”, Launching Conference of the International Year of Physics 2005, Jan13-15, Paris





“Physics for Tomorrow”



Amsterdam



Paris



Outcome

- (1) Provided girl students an opportunity to work and interact with working physicists and graduate student mentors.
- (2) Valuable experience in performing basic experiment at excellent laboratories.
- (3) Developed a network with girls having common concern as a result of group activity.
- (4) Important chance to determine study path and career development in near future.
- (5) Widen their vision for science and engineering.
- (6) Also we could improve the public atmosphere about girls doing physics and made an initiative role in leading girls into the world of physics.

(7) Study trip to Netherlands and Launching Conference in Paris

- Visiting ASML headquartes, ROC, Sondervick College : precious chance to understand the strong power of Netherlands in science and engineering, which became possible by basic education emphasizing old tradition of science and creativity.
- Participating into Launching conference of the International Year of Physics in UNESO headquarters in Paris stimulated students' academic motivation and enriched their academic experiences.
- Study tour inspired all the winning team members intellectually to play a leading role in science and engineering in the near future.