

New Academic Year Starts with Confidence

2011 Matriculation ceremony for 862 new students

POSTECH, the 28th ranked university in the world, takes a new step toward 'VISION 2020' with newcomers of the 2011 Matriculation ceremony on Mar. 2. The ceremony is held in the POSTECH Auditorium at 11 AM. Afterwards, 862 students including 298 B.A, 162 M.S, 113 Ph.D and 289 M.S-Ph.D integrative program candidates now become Postechians.

In preparation before the ceremony, newcomers and professors wear ceremonial clothings and enter auditorium in order. With the Pledge of Allegiance and the national anthem under the baton of Lee Seung-hyun (ME '08), the ceremony proceeds with the report on academic affairs by Dean of Academic Affairs Jin S. Lee (EE), the freshman oath by Cho Sat-byeol (LIFE), and the Matriculation Address by President Sunggi Baik. President Baik says, "POSTECH has always aimed at customized education for the selected few



▲ A scene from the 2010 Matriculation ceremony

after its foundation. From this year, by reorganizing a more compact curriculum, students can move up the date of receiving their degrees. Moreover there will be a considerable advancement in education in humanities, arts, and social science for creativeness and character to grow."

In special, Professor Emeritus Wook Hyun Kwon of the Seoul National

University (SNU) delights the ceremony with congratulatory address and lecture. He specially notes, "The upcoming wave needs creative people. Being creative means to design or seek for something that has not been. To develop such an ability, do not be obsessed with stereotypes; consider things inversely. Also, globalization of the world continues to accelerate. Students should

nourish skills to speak English well for surviving in the globalized world as a leader."

In this new academic year, the reformed curriculum takes effect. A shortened period to finish degrees and an enhanced education for undergraduates in humanities and leadership are mostly expected changes. Look for Page 4 if you need more information.

After the ceremony, the reception takes place in the POSCO International Center at noon. Moreover, lectures scheduled in first, second and third period is canceled for the ceremony.

Reporter Lee Sang-min

<Personnel Announcement>

- ◎ Lee Sang-min (PHYS 09)
: Appointed as Vice Editor-in-chief
- ◎ Lee Suh-young (CE 10)
: Appointed as Reporter (Mar. 1)

Opening Speech

As a global leader, improve your flexibility and creativity

I welcome all of our freshmen, who came to POSTECH with dreams and passion for science and technology. I also congratulate and gratefully acknowledge the parents of the incoming students for sending them to POSTECH after having raised them with unbounded parental care and love.

POSTECH is Korea's first research-oriented university, founded by POSCO, the national pride and global powerhouse in the steel industry, for the advancement of science and engineering education and the development of the nation's scientific and technological capacity. This year marks the quarter-century anniversary of our university. While growing into a high-spirited young and dynamic institute, POSTECH has driven the development of Korea's higher education and contributed to the advancement of the nation's science and technology, through pursuit of excellence in education and research. As a result, we are recognized as one of the top science and engineering universities of the world and placed best in Korea, third in Asia, and 28th in the world by *The Times* of London in its World University Rankings 2010. Now you become a member of the university that is Korea's pride and hope as well as the

world's focus of attention. Therefore, take pride and do your utmost to cultivate professional knowledge, creativity, and character worthy of POSTECH.

Our Proud and Dearest Freshmen of POSTECH!

POSTECH's educational goal is to train you to become world-class scientists who are capable of challenging the Nobel Prize and the Fields Medal, or to foster creative and innovative global entrepreneurs like Larry Page and Sergey Brin, the co-founders of Google, or Mark Zuckerberg, the founder of Facebook.

To this end, POSTECH has, from its beginning, provided customized education for a small elite group selected carefully with thorough academic supervision. Starting this year, our curriculum will be fully reformed with an educational focus on our advanced Ph.D. program. Through integrated undergraduate and graduate training, firstly you will lay a firm foundation in basic education on fundamentals and core disciplines and then immerse yourselves in the systematized and intensified major studies of your choice based on the foundation. You will be able to cut short the long road to a Ph.D. degree by two to three years, as well as to begin the scientist's journey earlier by participating in advanced

research even as an undergraduate. We also plan to reinforce our courses in humanities, arts and social sciences to better support you to cultivate creativity and human nature, essential for your growth into global leaders.

Along with these efforts of the university, also highly critical to become creative and influential leaders of the nation and the world is how you live your college life. First of all, study diligently the fundamental subjects such as math, physics, chemistry and life science, and exert yourselves mightily to become the winning professional players on the international arena in your special areas. Next, in order to cultivate open-minded thinking and creativity as future global leaders, you must busy yourselves building broad interest and gaining experience in the humanities, the arts and social sciences. Remember, creativity is not to seek, but to seed and feed.

<Continued on page 3>

Mar. 2, 2011

President Sunggi Baik



Novel Drug Treatment for Brain Tumors Developed

On Feb. 22, Professor Sung-Kee Jung of the Department of Chemistry announced that his research team developed a treatment for brain tumors using Paclitaxel, an anti-cancer medicine.

Currently, brain tumor patients usually have to undergo operations or have radiotherapy as part of their treatment. This is because the Blood-Brain Barrier (BBB), which protects the brain from bacterial infections, keeps drugs from entering target tumors. Since antibodies are too large to cross the BBB, brain tumors are difficult to treat by medicine.

Accordingly, although Paclitaxel, which annihilates cancer cells by protecting depolymerization of tubulin during cell division, is effective to ovarian

cancer, breast cancer, and lung cancer, it was not able to be used for brain tumors.

The research team succeeded in synthesizing the drug delivery-vector made of sorbitol, and through animal testing, Prof. Jung demonstrated that the sorbitol-based drug delivery-vector is effective with brain tumors. The discovery was posted on the online edition of *MedChemComm* on Feb.11.

"This research holds significance in that it now becomes possible to use medicine to treat brain tumors," said Prof. Jung. He added, "I hope that these research results invigorate the development of brain disease cures, especially for Alzheimer's and Huntington's diseases."

Reporter Lee Suh-young

POSTECH-Samsung Techwin Research Center Opens



surveillance technology.

The center will be named the 'Samsung Techwin-POSTECH Intelligent Media Research Center' and its director will be Professor Daijin Kim of the Intelligent Media Lab.

The Intelligent Media Lab presently possesses the leading position in video surveillance and face analysis. Support from Samsung Techwin, the largest corporation in the field of video

An academy-industry cooperative research center will be established at POSTECH for the development of next generation

surveillance in Korea, will boost technological innovation.

Samsung Techwin will support the research center with a total of 1.5 billion KRW for 5 years.

The research center will work on the application of face analysis, human behavior analysis and video analysis technology in intelligent visual surveillance technology for a bright future of human and robotic cooperation.

Professor Daijin Kim said, "Along with the research achievement, I will strive to establish the center as a new model of academy-industry cooperation."

Reporter Kim Sung-hwan

2011 Students and Scholars Programs of ISSS

Month	Students	Scholars
March	Orientation for new exchange students	
	POSCO tour	
April	Experience Korean culture & Gyeongju tour	Dinner Meeting with the President
May	2011 POSTECH Sunrise Festival	International Scholars' Family Picnic
June	End of Semester Party	
July-August	Summer program (every week)	
September	Orientation for new exchange students	
	Thanksgiving dinner	
October	Experience Korean culture & Andong Haheo Village	International Faculty Dinner
November	POSCO tour	
December	International night	International Night for Scholars
January	Korean Movie and Pizza	
February	Lunar New Year's dinner	

E-Mail Service Reform

The Information Technology Services Team of the Office of Academic Information Affairs announced that a brand new e-mail service will be launched from Mar. 1.

Among the changes, IMAP (Internet Message Access Protocol) service will be newly provided alongside POP (Post Office Protocol). POP requires the elimination of messages in the server after their movement; however, IMAP instead allows the users to pick the messages they want to read by reading headlines and copying them. IMAP is considered as a service optimized for smart phone use.

The mail restoration service will be

expanded to the Inbox as well as the Sent and Trash boxes.

For another change, POVIS will be made compatible with browsers other than Internet Explorer, such as Firefox, Safari and Chrome.

Lastly, postech.ac.kr accounts will be linked with Gmail accounts. This change will allow users to enjoy more convenient mail management with larger storage.

The project began in September of 2010 and will finally be finished on Mar. 1 after service transition, storage exchange and data migration.

Reporter Kim Sung-hwan

Puzzle A to Z

R	S	I	A	L	C	O	H	O	L
N	C	P	W	K	Z	W	R	R	I
O	R	C	E	V	Q	X	O	E	I
T	P	O	B	A	G	K	N	S	R
E	K	F	C	P	K	O	E	E	P
B	E	F	A	O	H	E	E	C	K
O	M	E	M	P	P	B	R	D	T
O	K	E	R	J	E	A	S	S	E
K	C	A	K	G	N	Z	T	U	P
L	E	T	E	X	T	B	O	O	K

◇ Name :

◇ Dept. :

[Winners]

- Kim Changhyun (ME)
- Chan Lee (ME)

☞ Pick up your certificates at *The Postech Times* office during office hours (9am~6pm) on weekdays.

Find your own words! Vertically, horizontally, diagonally. **They must go from left to right.** Whatever they are, it will be okay if they are in the dictionary! Submit your answer sheet into the mail box in front of *The Postech Times* office in the Student Union Building 3rd floor by **Mar. 20**. Three winners will be selected by the number of words and will receive a Happy Money Gift Certificate (10,000 KRW).

The Postech Times

for **2011**

Simply email us to eng-reporter@postech.ac.kr for application after completing the form on times.postech.ac.kr.

Deadline is Mar.21.

<Continued from page 1>

POSTECH is unique in Korea in that all members of the university, including faculty, students and researchers, live together in the same campus, which enables them to interact efficiently. The future sciences are developing through convergence and integration, bringing forth multilateral synergies. Similar to the Tae-Neung National Village, where national athletes stay and train together, POSTECH provides an ideal environment for the nation's foremost scientists and engineers to focus on their research with ready access to vibrant interdisciplinary exchanges and collaboration. I suggest that, to become world-class professionals, you take full advantage of this privilege of unique opportunities, and try extra hard to frequently communicate and closely collaborate with your professors and peers. Please be aware that the threats to the humanity, which you must manage, include energy shortage, environmental degradation, climate change, limited

resources, food crises, diseases, and terrorism; these problems cannot be solved by one person and require extensive cooperation across the disciplinary as well as regional boundaries.

As such, I would like to emphasize that, to become leaders of this society, you should foster *Zeitgeist* as well as a sense of responsibility; furthermore, to become de facto global leaders, you should also speak fluent English, as if speaking a native tongue, and freely communicate with other global leaders at professional levels. I sincerely hope that, you grow to become proud Postechians, who serve others above and beyond self-centered interest and with dignity and self-respect worthy of the world's future leaders.

I would like to close by extending my sincere appreciation to Dr. Wook Hyun Kwon for his precious time to deliver words of encouragement to POSTECH's freshmen.

I wish all freshmen every glory and blessing.

Appropriateness of Social Contribution

A few days ago, I met a couple of freshmen and had a chance to have a conversation. The conversation began with simple questions about college life, such as average weekly drinking frequency or student clubs.

We then came to talk about freshman orientation. Talking about the orientation, I could find out their excitement and expectation to meet new friends and start entirely new lives. They also worried about the uncertain loads of work they will have to endure.

All these came to me as very retrospective and fresh since I once worried about and confronted the same issues. One moment, a topic one of the freshmen brought out caught my attention in an inconvenient sense. What it was was that POSTECH's freshman orientation includes a day of voluntary service in welfare institutions; the student complained why he had to waste his time on such a useless, showy and temporary event.

I believe those temporary events are partly the obligation of us, Postechians, the future leaders of society. I also think that the efforts should be perennial and voluntary.

Cruelly, the social position of an individual is generally decided with birth. A person born in a wealthy family is likely to maintain with the status all lifelong and the same can be said of a person born in a poor family.

For people who live in harsh conditions, external factors such as

social structure turn out to be more a foundational cause than personality. In fact, we came to be able to prepare and educate ourselves to be leaders of society in POSTECH, the leading institute of science and technology, for we were fortunate to be beneficiaries of the established social structure.

Since we are in comparatively better condition, we have more room to spare; as leaders, we have to find ways that no one is left behind. Along with approaching the foundational solution for equality of opportunity in the long term, we should give the unfortunate small short-term help that will come as a ray of light in the darkness in their everyday lives. The small contributions might seem temporary, but these small stimulations will later come as a huge external influence to the neglected people to be inspired.

Finally, the influence of less socially privileged people may begin to produce social output, and start to influence others who used to be in similar conditions. The outcome will be huge.

Social contribution is not an obligation. But we should feel guilty about the stability we are enjoying and always look for ways to share our bliss. I cannot force my philosophy on the readers, but I just wish, by reading this column, the readers, especially those who have been stingy on self-sacrifice, have time to reflect themselves.

Reporter Kim Sung-hwan

Newcomer's Decisions and Wishes

Even before their arrival to Korea, *The Postech Times* asked arriving exchange and graduate students why they chose POSTECH and what they expect from their stay in Korea.

◎ Jin Bo (China, ITCE)

The reason I chose POSTECH is, first, I was attracted by the major offered at POSTECH, which is ITCE.

When I was in college, I attended lectures concerning the ubiquitous environment and bio-nano devices applied for U-health. So then I tried to search for a university that could fulfill my study in this field. Second, one of my schoolmates who has already been in POSTECH recommended for me to come.

Although it's hard to answer now what I would want to achieve in the future at POSTECH, I is to be one of contributors in the study and research of U-health and U-environment.

◎ Fatermeh Masoumi (Iran, MSE)

I came to POSTECH in 2010 for NUMIFORM Conference, and since then I got interested in continuing my education here. One of the important issues for anyone who wants to continue her education in a foreign country is the environment and the culture of that country. I found out that the weather conditions in South Korea are good compared with other countries. In addition, South Korea is among the top 15 of developed countries, and also POSTECH ranks within the top 30 in a world university ranking surveyed by *The Times*. These parameters induced me to choose POSTECH as a university for my Ph.D education.

I am really interested in finding solutions for today is problems, and also acquiring modern knowledge, especially in the biomaterial field, to help solving medical problems. I found out through my evaluations of POSTECH's published papers that this university has taken big steps in this direction. As a result, I hope that I can solve some health problems by doing my Ph.D research, and I also hope that this research can be successfully applied.

◎ Pham Ngoc Vinh (Vietnam, IBB)

As an intern at POSTECH Life Science for three months last year, I was quickly impressed by the working environments in Korea. Significantly, POSTECH is one of the most prestigious biological universities in Korea, where I can find many of the best minds of the country's youth in the

field of biology. Naturally, the academic competition is fierce in this university. I think I will have a great chance to learn with famous scholars and excellent students, and simultaneously acquire precious experience. The IBB graduate program is very compatible with my background and research interest.

I truly think that studying in POSTECH will help fulfill my desire to become a refined scientist, which will prepare me for better contributions and applications to real life, especially in terms of plant molecular genetics.

◎ Humaira Seema (Pakistan, CHEM)

I am an award winning young researcher in Pakistan. My ultimate aim is to bring relief to poor and destitute people. After participating in the 59th Nobel Laureates meeting in Germany in 2009, I was approached by many to consider completing a Ph.D in Germany, England or Australia. However, I was looking for a university which can be supportive, accommodative and internationally reputed.

POSTECH in South Korea was indeed an eye catcher for me. It is an internationally renowned university, and as a Pakistani Muslim who wears a hijab, I thought I would feel comfortable to commence studies without any interference of colour, creed or religion. South Korea is a vibrant society with an enchanting culture, full of warmth and courtesy.

I hope to pursue my research on nanotechnology in material sciences. It is indeed an honour to be able to do a Ph.D at a top Asian university.

◎ Roman Geier (Austria, CHEM)

My decision of coming to POSTECH all began from a summer school in the US. The chemistry department in my university, Graz Austria, has good relations with the University of Syracuse NY and I was lucky to go there. We had a very interesting summer in the States. After that summer, I wanted to do an exchange semester and the question was where. I wanted something special I did not want to stay in Europe, if possible. So I checked what my university was offering and there I found Korea. The country is well known for its high-tech industry, but with the people and the culture, I had no contact before. I learned more about Korea and found out that this could be the right choice. I am excited how the experience will be and what kind of adventure is awaiting me.

What is New and Revisited? Curriculum Reform

It is 11 years since the last big changes

As it was predicted in *The Postech Times* last year, an overall change of the university curriculum is happening with the start of the 2011 class, after the last change in 2000. The gist of the reform is a stressing of education in humanities and leadership, and promoting comprehensions on other majors' subjects. In detail, the change includes a launching of the Activity-based General Education Curriculum (ABC), a reorganization of the educational system in the fields of humanities, arts, and social sciences, and shortened term for degrees.

Under the new curriculum, students who show advanced progress relative to others can acquire a Ph.D within three years through an optimized integrative program. That means that POSTECH undergraduates can complete a Ph.D within a total of seven years, skipping an M.S.

ABC, called Extra-Curricular Units in the previous issue, is an exclusive program used at a selected few institutions like POSTECH. It is a well-organized education program that emphasizes activities of students which cannot be trained in ordinary courses. New freshmen

are now required to take 10 ABC units (almost equivalent to 10 credits) for graduation. Essential units are composed of Planning for College Life and Future, Freshmen Seminar, and Social Service. Other units include various activities related to cultural, artistic works and sports.

Any student from other than the Class of

Humanities and Social Sciences now belong to new course classification whose number starts with HASS (Humanities, Arts, and Social Sciences) and four new essential HASS courses for general understanding in several topics have been prepared for the Class of 2011. Students should register one of them each semester.

Before	Credits	After	Credits(Units)
GE req.	15	HASS req.	20
GE elec.	14	HASS elec.	12
UC	27~30	UC	30
Major	Dept. dependent	STC	15
Freely selected		ABC	10 Units
Total	125~135	Major	Dept. dependent
		Freely selected	
		Total	132~140(+10)

▲ A table represents how the curriculum is revised.

2011 can participate in programs with a permit of the professor. The programs are basically operated in Korean, but international students are expected to also join, for those not requiring much use of language.

Lectures designed by the Division of

The Division is planning to employ eight more professors until 2014 for more efficient education.

The revision of curriculum was commonly called 'POSTECH College', but the term is not used currently. POSTECH College was first suggested as

an integrated administration system for freshmen and sophomores, but the suggestion was discarded after internal discussion. Thus there is no change in administration.

The actual change in University Cores (UC) is not so big, besides a three-credit demonstration course, tentatively called 'Earth Environment'. It will be later announced whether it will become a UC or not. In addition, 'Differential Equations' now becomes a required course for all students. Science and Technology Cores (STC) was initially designed as an integrated basic courses delivered by professors from different departments, but now it seems to be a simple 15 credit requirement which is composed of credits from other major courses.

Still, some parts of the reform are not finished and are in progress. About that, Seo Won-seok of the Office of Academic Affairs noted, "After more than a year of consideration, the new curriculum has been designed. We will make no confusion among freshmen by completing all undecided details in the near future."

Reporter Lee Sang-min

Special Health Series 1 – Alcohol

Gearing up for Safe Alcohol Drinking Habits

If drinking cannot be avoided, prepare

The POSTECH Times has specially planned a series of articles to give basic information that would help freshmen to adjust to the university life. The first of the series is about alcohol.

In March, anxious high school graduates enter universities. To make them feel welcomed, student organizations host various events. They often, if not always, involve alcohol. Alcohol has become an essential part of social life in both university and real world settings. POSTECH, for an instance, there are several drinking meetings such as Lost Memories just in the first month of entering the university. Because these drinking parties are connected to social meetings, students are peer-pressured to join the meetings though they may feel uncomfortable drinking.

The fact that there are many dinking meets is one problem, but that they are rarely equipped with basic knowledge of alcohol is another. Most of them do not know their drinking capacity, let alone their behavior when they get drunk. Without knowing these things, their school life could suffer. In an effort to improve their transition, POSTECH added an alcohol education program during the freshman orientation, but many commented that it is not very practical.

American universities face similar trouble. With

more freedom, new students go to drinking parties. They often lose control and cause problems such as destroying property, skipping classes, and vomiting on school grounds. Recognizing these problems, hundreds of American universities now require incoming students to complete a professionally designed alcohol education program. Whether the students choose to drink or not, knowing this information would not hurt them in any way.

To help alleviate this issue, *The POSTECH Times* sorted out the commonly misunderstood facts and some guidelines provided by the Korean Alcohol Research Foundation.

– **Drink less and talk more, less meat and more vegetables**

Talking more will naturally slow down the pace of drinking and reduce the amount of alcohol consumed. Consuming food is good to slowdown alcohol absorption, but acidic food is not the best thing for your stomach. Eat basic food such as vegetables, fruits, and milk because they're good for hangovers, too.

– **Boiler makers are a no-no**

Boiler makers must be avoided if possible. Because a bomb shot is a mix of lower degree alcohol and higher degree alcohol, it results in about 14 degrees of



▲ Students drinking at a social meeting

alcohol content, at which the body absorbs the alcohol fastest. In addition, mixing drinks doubles the absolute amount of alcohol.

– **Black Out Effect**

This happens when brain cells are damaged by alcohol. Brain-imaging has shown that there are clearly a fewer number of brain cells in black out. Even when experiencing a black out, your speech ability and bodily movement are not limited, therefore it leaves an issue of being responsible for actions while drunk.

– **Hangover-chasing Drink**

Heavy drinkers often say you must drink to relieve hangovers. This is like numbing a bruised body by hitting it over and over again. It is a shortcut to undermining your body which needs help.

Drinking takes up a very large part of social life in university. If it cannot be avoided, students should at least remember these guidelines and drink modestly. For more information, contact KARF at www.karf.or.kr.

Reporter Jung Han-kyu

Carbon, Green Growth to the Eco-Campus

'The lights never go out in POSTECH's library and classes.' The university public relations team may not use this phrase anymore because of a new policy on saving energy. POSTECH's saving greenhouse gas and energy union made a plan to reduce energy consumption with the installation of motion-sensor controlled lights.

Framework Act of low carbon, green growth

President Baik adopted the government's recommendations addressing climate change based on the Framework Act on 'Low Carbon, Green Growth,' which commits the entire country to reducing 30 percent of its greenhouse gas emissions by 2020.

The average annual energy consumption of POSTECH is 21,868 toe (toe: the amount of energy released by burning one tone of crude oil, approximately 42 Giga Jules), an amount high enough to have the university designated as a high energy-consuming industry which uses more than 11,973 toe per year. Fourteen other universities and hospitals which are designated as high energy-consuming industries have to set reduction goals and meet them by 2012.

Annual energy consumption at POSTECH

President Baik announced the formation of a faculty task force in February to study potential cuts in POSTECH's greenhouse gas emissions and energy consumption. Detailed emission reductions by 2012 are not yet defined, but President Baik called the 30 percent



▲ The lights of Tae-Joon Park Library do not go off even at night.

target a "long-term goal," indicating that POSTECH will develop yearly plans for future reductions.

The annual energy consumption at POSTECH has been increasing in the last four years. In 2010, POSTECH paid 7.9 billion KRW for energy, including 2.9 billion KRW for the usage of its accelerators, while POSTECH paid only 5.8 billion KRW in 2007. According to the study conducted by the Korea Energy Management Cooperation, POSTECH is the second highest energy consuming university in the country.

According to the Framework Act, it will be 2012 when POSTECH comes substantially under the reduction program. In order to estimate a realizable reduction amount, POSTECH is going to build a greenhouse gas inventory system carried out by the Ministry of Knowledge Economy.

Reduction programs in 2011 already in place include campus-wide replacement of lighting by high efficiency LED lamps, the installation of motion-sensor controlled lights, and the improvement of old heat exchangers. The program is expected to curtail spending on energy by up to 86.2 million KRW.

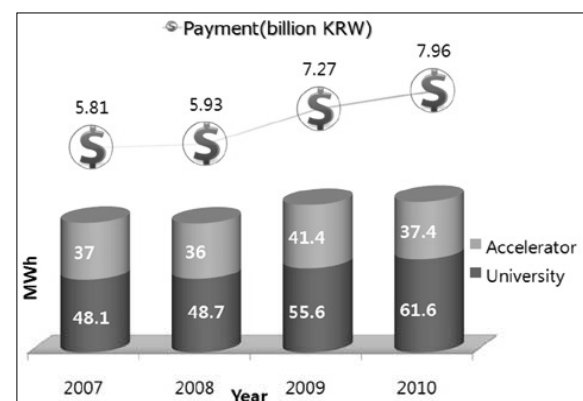
The acts of students

"My roommate leaves computers on all the time," said Kei-Byoung Lee ('10, ME). "I mention it, but he doesn't seem to believe that turning off computers has any impact on the environment."

In POSTECH, such attitudes are pervasive and difficult to change. Currently, students are not required to pay bills for the electricity they use. "There was an attempt to install electricity meters in each building but it wasn't successful," said Jae Hwan Kim (Master's candidate, ITCE), the previous leader of SAVE, which is a unique student club for environmental issues. "In order for POSTECH to be receptive, the students have to make noise," he added.

To become an EcoCampus

A movement called the Green Campus Project first started in the USA and UK. In 2009 and 2010, after noticeable accomplishments, POSTECH also became a



▲ 2007-2010 electricity usage and annual payment

member of the Korean Association for Green Campus Initiative and is seeking ways to become a sustainable university for future generations. One aim of the Green Campus Project is cutting down on emissions of greenhouse gases just like other industries, but this needs to be approached in an educational way.

Conducting studies and research on green technology and sharing results with society should be a major role of the university. Moreover, universities can provide courses and train specialists on climate change. By doing this, universities can be acclaimed for sustainable development and secure leadership on global warming issues.

"Lighting off one building is an out-of-date way," said Ohyon Kwon, of the Physical Plant Maintenance Team. He added that energy efficiency demands much more than students remembering to turn off their computers and lights, but still, in order to invest in high-cost energy saving installations, our university members should have more concern about environmental issues. "We meet a situation where people live in a state of ignorance about their impact," he explained. "In order to overcome the ignorance, we need to start with the small things around us. Turning off computer monitors when not using them is good enough for a start."

Reporter Lee Suh-young

» INTERVIEW Recipient of an honorary doctorate degree

Advice from a World Class Researcher

Urged graduates to address 4 big problems of mankind

In addition to the 700 graduates who received degrees at the 2010 Commencement Ceremony, a special guest was invited to receive an honorary doctorate degree. Dr. Peter S. Kim, the current president of Merck Research Laboratories, was invited to accept the honor.

The POSTECH Times had an exclusive interview with Dr. Kim to learn more about his life and career as a researcher. To introduce his brief profile, his alma maters are Cornell University (B.S.) and Stanford University (Ph.D.). He then went on to the Whitehead Institute

for Biomedical Research of the Massachusetts Institute of Technology for post doctoral research. He remained there for 17 years as both a researcher and a professor. He gained the academic spotlight through his findings in HIV/AIDS research. His research group discovered how proteins cause cell membranes to fuse. Based on this finding, he designed compounds that discourage membrane fusion by HIV, thereby preventing it from infecting cells.

As a seasoned researcher, he gave time-proven advice to graduates who are moving onto various fields to apply



Dr. Peter S. Kim

their knowledge. Dr. Kim warned the graduates that numerous obstacles will frustrate them. When faced with challenges, he emphasized that it is important to be able "to persevere, and to step back and think about the problem from different angles, or think outside the box." He also pointed out that "sometimes it is important to maybe take a break. Try another project or another direction."

He also gave his opinion on how to become a global leader, which is the

ultimate educational goal POSTECH has for its students. Skilled leaders must be able to "simultaneously focus on big pictures and recognize the things that need to be attended to in detail." An example he gave for this role was noticing capabilities of various team members and delegating tasks to apt people.

Finally, he passed on a noble mission that he highlighted in his speech at the commencement ceremony. He urged the graduates to address the following four big problems of humankind: producing food to feed the growing population, creating sustainable energy, taking care of the environment, and improving human health. Despite his prestigious accomplishments, he is still determined to continue on with improving human health, one of the four problems he highlighted to be addressed.

Reporter Jung Han-kyu