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UNIST VISION 2030 Proclaim the leap for world top 10

To develop a global university of research, through specialized fields of high-tech new material, secondary the improvements in research as it battery · graphene.

of Science and Technology, University (WCU), Science Research President Moo Je Cho) held the Center (SRC) and so on. 'UNIST Vision 2030' proclamation Building auditorium on October 20th. the 'Science and Technology Univerversity which raises the competitive- their plans for supporting especially faculty, staff and students participat- researching capability. ed in this ceremony.

selection and concentration."

congratulatory address in this cere- tioning the history and importance of mony, said that UNIST will take the UNIST, a film, a reading of the declead in converging research which laration of vision, a promising perforassures creativity and independence. mance, congratulatory video mes-Also he promised active support to sages from important people, a mem-UNIST in the quest for a top 10 posi- ory orchestra performance, students' tion through means such as 100% congratulatory performance, and a English lectures, and a successful second orchestra. interdisciplinary education and research program.

UNIST has been open for three years, and has contributed greatly to performed in important national UNIST (Ulsan National Institute research projects like World Class

The Ministry of Education, ceremony in the Main Administrative Science and Technology announced The long-term vision for the univer- sity Specializing and Promoting sity was proclaimed; "Develop a uni- Plan' last July. This made public ness of the nation and contributes to UNIST's high-tech new material field a rich life for human beings' through (energy / bio / machinery parts), seccreating global research products." ondary battery, and graphene The Minister of Education, Science research. UNIST has continuously and Technology, Ju-Ho Lee, guests, met expectations to improve in

UNIST set a goal to become a top At the welcome speech, President domestic, and a "world top 100 sci-Moo Je Cho said, "No university in ence and technology university" by the world can be the best in every 2017. As well, it will turn into a field. Even Harvard or MIT aren't "world top 20 university" by 2020 the best in every field. UNIST will be (the time when the world class results a global leader by specializing in the came out). They have made a high-tech new material, and next research and education infrastructure generation energy fields through for being the global leader of science and technology.

Minister Ju-Ho Lee, who gave a The ceremony consisted of men-

Kwon, Keunyeong Choi, Jieun

Velcome speech, President Moo Je Cho Proclamation

() UNIST VISION 2030 Provid

UNIST-gil 50(100 Banyeon-ri), Eonyang-eup, Ulju-gun, Ulsan Metropolitan City, Republic of Korea, 689-79

The Ministry of Education, Science and Technology Ju-Ho Le

Making a transparent chemical sensor on the bumpy shard of a beetle The invention of a new technique that compounds a whole electric circuit in one step.



A new technique that compounds a whole electric circuit with graphene has been invented under the initiative of a national researcher.

This collaborative research by Professor Jang-Ung Park (UNIST, 34), Doctor Seoung-Woo Nam, and

aid of "General Researcher Support graphene type ingredients of atomic layer proposed a new concept of synthesizing Program" promoted by the Ministry of width. Science and Education(Minister Ju-Ho Until now, the manufacturing process rather than the existing multi-level research: "This research can reduce the Lee) and Korean Research of semiconductor chips has been done in process to make semiconductor chips. Foundation(Chairman Se-Jong Oh). The a multi-level process in which metals and result of the research has been reported in semiconducting materials pile up, form- made it possible for electric circuits to cuit, and it will allow electric circuits to an online article(November 21st) in ing a shape on top of a flat surface com- float in the water surface, and to attach attach to various matter because of its "Nature Materials" a sister magazine of posed of rigid and brittle materials. the world's most creditable scientific The technique developed by Professor graphite integrated electronics".

the existing semiconductor chip based on are stacked, they become graphite. the layer-by-layer fabrication steps.

journal "Nature". The title of the paper is Park's team builds the graphene-based "Synthesis of monolithic graphene- electric circuit and the sensor in a onestep synthesis process instead of the Professor Park's team has developed existing complicated process. Graphene a technique that synthesizes a whole elec- is a nano-substance composed of a layer tric circuit chemically in one step by of carbon atoms arranged in a honeyusing graphene, which is different from comb crystal lattice. If graphene layers Professor Park's team constructed an The electric circuit compounded electric circuit composed of graphene

an electric circuit in a one-step process expressed his thoughts about his

Furthermore, the research team has easily to insects' shells, coins and other flexible and transparent property."

Professor Jang-Ung Park has unit cost of production with its simple process of compounding the electric cir-



Professor Charles Lieber (Harvard through this method is transparent, thin and graphite by controlling the number curved surfaces, an impossible feature for University) has been conducted with the and flexible because it is made of only of layers during synthesis. They have chips manufactured in the traditional way.

UNIST s unique research program for outstanding students

The purpose of the UNIST Summer Undergraduate Research Fellowship (U-SURF) is to make a place in which young scientists can participate in high technology research, preparing for the future of high fusion technology with professors. U-SURF offers experiment research which is necessary to help young scientists (junior, senior and master's students) to decide their own way. It also provides a variety of activities to make a human network.

The programs involved are: Energy Conversion and Storage, Technology Management, Environmental Science and Engineering, Life Science, Physics, Mechanical Engineering, Electrical Engineering, Bio Engineering, Urban Infrastructure Engineering, Interdisciplinary Design and Engineering, Materials Science and Engineering, Applied Mathematics, Nuclear Science and Engineering, Nano-Convergence Chemistry and Materials, and Computer Science researchabroad, and chose UNIST. Engineering.

Usually undergraduate students can't participate in research programs easily. UNIST participates in this program, U-SURF is unique to our school. Also, we have many advantages to take part in: Every student is offered dormitory space, a chance to use high technology machines, a chance to come to UNIST graduate school, and a chance to meet interchange student from University of Michigan. There is also an honor prize awarded to an elite student. I interviewed two interchange students, Garam Jun and Labiba Quaiyum, who par- research experience was both fun and enlightening And finally, I provided a pseudocode by transferticipated in the U-SURF program.

Q. What was your motive for participating in U-SURF?

Garam Jun : I had various reasons to participate in the U-SURF program at UNIST. First of all, it gave me a reason to go visit Korea. My parents live in Korea, as well as most of my relatives, and I haven't seen them for a while. Being accepted to back at Michigan, yet this research also had com-UNIST gave me the opportunity to spend the pletely different and new aspects to it. money necessary for the trip to Korea. However, this wasn't the biggest reason; obviously I wanted to participate in state-of-the-art research in Korea. I have been participating in research in the Materials Science and Engineering department



wanted to experience something different, something completely new. So I chose to

Labiba Quaiyum : I have been actively considering the decision to try to go to grad school for sometime now, but to really make that decision I needed to experience research. USURF was the perfect solution. It was research experience which was short and sweet, and would help me decide blind with mobile robots designed and prowhole new country and culture was very tempting. All in all- USURF just added up to be the perfect on the properties and responsibilities of a guide option for me. And, I am glad to say I am still dog, constructing and analyzing six specific situa- heading in the right direction with my project. sticking to my wish to go to Grad School, and the tions of interaction between a human and dog. Q. In which program did you participate?

G :The research that I did took place in the Organic Photonics and Optoelectronics Laboratory, in the Mechanical and Advanced Materials Department. The research dealt with organic LED's and organic solar cells, things that have similar qualities to the research I was doing

L :I worked under Prof. Namhun Kim in the Design and Human Engineering Dept. His U-Cim lab focuses on Human in the System (HITS). I worked on a project involving mobile robots. Prof. Kim's vision for the project was to design a comhere at the University of Michigan for two years. I municative or interactive environment for the

Study Abroad programs a hit

UNIST supports many students to go other countries students' English ability and offers an opportunity though her English skills had not improved sharply. to experience living abroad. The first is the 'student Through this program, she made lots of new friends exchange program' in which a student earns credit who came from another country. By making forby studying at another country's university which eign friends, she could exchange cultures and learn has a relationship with UNIST. The second is about different cultures. After finishing her pro-'culture exchange program'. Through this program, gram, she traveled Europe from London to Rome. students can go abroad and study in the language She said, "It was wonderful time in my life. The education center of another university during short trip in Europe gave me unforgettable memories. time periods, such as a vacation or for one semester. She also really wanted to say to thank you for all of The third is the Summer Session program. The the support from the school and others who helped. fourth is the Lab tour program, in which students can visit other countries with her or his friends who went to the University of Washington in the USA have the same interests. Students can look around mentioned that one of the great moments in Seattle popular companies, laboratories or universities. The was USA Independence Day. In the Pioneer Square last one is UROP, meaning Undergrad-uate in the Seattle, she had a chance to talk with lots of Research Opportunities Program.

abroad during vacations since the programs started She said she'd never seen that kind of spectacle. The in 2010. In this summer vacation, 78 students went night sky was lit up with fireworks. She said, "I was abroad through UROP, the summer secession, the so lucky to participate in this big event for the USA." culture exchange program and the Lab tour program. They went to diverse countries like the USA, other countries were quite satisfied with the contents the UK, France, Kazakhstan and others.

Engineering) who participated in the Gateway pro- provide more opportunities for students. gram at the University of Manchester in the UK,

UNIST has 5 international programs to improve said that she felt that she has grown a lot even

Jiyoung Lee (22, Technology Manage-ment) who other foreigners and took a nap on the grass. The Thanks to university support, 193 students went observance of Independence Day includes fireworks.

of the program and their experience. Additionally, Sujeong Go (21, Advanced Chemical UNIST International Center faculty is planning to

Shin, Gawon

ring the situational information to the instances of a mobile robot control.

Q. What do you think is the strong point of U-SURF?

G : I believe that the strongest point of U-SURF is that it allows undergraduates to carry out high quality research that could have an impact in the fields of science and engineering. While I have done research at Michigan for two years, I haven't had that much experience with personal projects. At UNIST, I was able to go from start to finish with the research I did; I started with making a solar cell and finished with analyzing data. Being able to do this is something that I feel makes the U-SURF program really amazing. It develops creative thinking as well as the necessary skills for undergraduates who are thinking of pursuing a higher level of education in graduate school. Overall, the U-SURF program is a great program and I hope that more international students will be able to participate in the years to come.

L : I felt that the strongest point of U-SURF was the opportunity to work so closely with a faculty member. In most research positions, you work explore the option of replacing guide dogs for the under a Grad Student. But USURF lets you work under a faculty member's guidance. I was very my future. Moreover, the chance to experience a grammed to do the same things a guide dog would fortunate to have Prof. Kim helping me with my do for a blind person. I spent 4 weeks, researching project. He was a great help in explaining the concept of affordance and making sure that I was

Lim, Doyeon

Buddies are back

UBB, a program which matches an international student with a Korean student, started again for the fall semester. Although this program existed last year, it had difficulty in shaping the activities. UBB has recently revived as the UNIST International Center was newly formed.

mobile robots and try to redefine the concept of

affordance in a more concrete manner. I found his

vision and ideas incredibly fascinating, and I was

incredibly enthusiastic to contribute as much as I

could. I wanted to design a realistic environment

for the project, one which was pertaining to real

life and could possibly be useful later. I wanted to

For Korean students, UBB provides opportunities to explore other countries' cultures. For international students, activities are offered to help them adapt to the unfamiliar Korean culture. Buddies guide students around the school campus, introduce information about school life, and participate in public activities for foreign students.

Students selected as a buddy had their first meeting with foreign students before the semester responsibility and diligence as UBB has fewer began, where they briefly introduced themselves. UISO (UNIST International Students Organization) gave a welcome party to celebrate international students on September 3rd. They became familiar with one another through this party. They also enjoyed wearing Korean traditional costumes and having Korean foods on



currently planning to explore Ulsan city during the upcoming vacation.

Compared with other universities' buddy programs, UNIST buddies are required to have public and compulsory activities. UBB puts an emphasis on independent activities the buddies can enjoy by themselves. The students are encouraged to see a movie together, go shopping, or take a tour to places where students have cultural experiences

Jo, Shinyeoung

Four Undergraduates Won Silver Medal at 2011 iGEM Competition

In the first ever entry to the competition, an under-environment and a bioreactor based on the environ-Silver Medal from the International Genetically sensing chemicals. Engineered Machine (iGEM) competition held on October 15 -16th in Hong Kong.

students Bok-Eun Song, Ee-Seul Shin, Yu-Lim Lee and Jae-Sung Yoo, and led by Professors Sung-Kuk uate synthetic biology competition. Teams are given Lee, Cheol-Min Ghim and graduate mentors a molecular toolkit at the beginning of the summer Vinuselvi Parisutham, Jae-Myung Lee, Seung-Hun from the Registry of Standard Biological Parts. Jung and Jung-Min Park.

to design and construct a novel programmed cell design, to build novel biological devices. death device which distinguishes between a natural

graduate team from NBC returned home with a mental cues.such as light, temperature, and quorum

This year, four Korean teams participated in the iGEM competition, including Korea University The UNIST iGEM team was comprised of four (Bronze), Chungbuk National University, and KAIST.

The iGEM competitionis the premiere undergrad-Working at their own universities over the summer, The Team's project, called "Cho-Co-Late", was they use these parts, as well as new parts of their own

Lee, Gangseok

Won funding from the Basic Research Laboratory Program



Bioscience and Chemical Engineer

Could you tell me about your research? We won funding from the Basic Research Laboratory program, sponsored by the Ministry of Education, Science and Technology. This program supports group research projects within academic departments in the fields of science, engineering, pharmacology and medicine. The title of chronic kidney disease and renal inflammation,

and development of novel anti-inflammatory agent." Four professors in the School of Nano-Biocscience and Chemical Engineering - Do Yoonkyung, Lee Changwook, Nam Dougu, and myself have participated in the project with a total budget of 2.5 billion Won over five years.

knowledge on chronic kidney disease using particular difficulties. mouse models, focusing on the TonEBP transcription factor. Cellular pathways of TonEBP will be investigated in specific cell types such as macrophages and dendritic cells. Novel antiinflammatory agents will be developed by targeting TonEBP. Details of TonEBP action mechanisms will be uncovered at the atomic and molecular levels. As the director, I am particularly proud of this team because its members are truly multi-disciplinary, covering areas of pathophysiology, immunology, bioinformatics, and structural biology.

What is the significance of this research?

Inflammatory diseases such as chronic kidney disease, atherosclerosis, and rheumatoid arthritis impose a great deal of burden on developed countries like Korea because there are no effective therapies despite a high prevalence. My recent studies on patients and animals have revealed that the TonEBP transcription factor is an essential component of these inflammatory diseases. The the project is "TonEBP transcription factor in project is likely to have a major impact not only

risk assessment.

had to confront?

and demand total commitment on the part of the the-art equipment and well-managed administra-The project aims to uncover fundamental investigators. In this regard, there have been no tive system.

Who has helped with the research?

In the last 5 years, there have been many collaborators who have made critical contributions. Drs. Andrew Demaine and Afshin Parsa with clinical research, using diabetes patients and normal subjects; Dr. Kim Wan-Uk with rheumatoid with atherosclerosis and other vascular diseases; and Udo Haster and Eric Feraile helped with inflammation.

Do you have some new plans for further research or other projects ?

With this funding, I hope to train UNIST students in the field of biomedical science. My goal is to train the best scientists who will lead the world in the future.

difficult to manage both work and research?

Professor of Medicine in the USA for 21 years at mission. Johns Hopkins University and the University of on chronic kidney disease but also many other Maryland. I hope to use this experience to help

inflammatory diseases in terms of therapy and UNIST to become a global institution. Of course, I worry that the UIC directorship might compro-What were the most difficult things that you mise my research efforts. However, I think it would be minimal because the research environ-All scientific endeavors are time consuming ment at UNIST is outstanding, including state-of-

How do you feel about the English-only classes that are carried out at UNIST?

UNIST aims to lead at the global stage. Use of English is an essential component of the global education. We have to learn from the great European counties like Germany, France, and Italy. Even though these counties have longer sciarthritis; Drs. Brian Wamhoff and Gary Owens ence histories than England, their top universities have been using English in their science, engineering, and medical schools. They understand that their stage is the world.

Do you have advice for our paper(THE UNIST JOURNAL), which is publishing its second edition?

I believe this paper should be an essential tool and medium for the globalization of UNIST. I urge the entire UNIST community, regardless of **I heard that you are the chief of the UNIST** your nationality, to embrace this paper and make INTERNATIONAL CENTER (UIC). Isn't it it a central venue to exchange ideas, and to learn and understand the diversity of the world. I hope Before joining UNIST last March, I had been your staff understands this with a great sense of

Lee, Taehee

UNISTARS experienced becoming global representatives

Students win Governor's Prize at International Conference

From September 29th to October 1st, the second UNCCDCOP international imitation UN conference for university students was held at Changwon university, to open the United Nations Convention to Combat Desertification successfully

The event was supported by Gyeongsang-namdo and the forest government. 130 university students from Korea and 10 international students from China, Australia, Germany, Brazil, and Vietnam participated in this conference.

There were four committees, with topics : the way how connect effectively with the UN Convention on the environment, the role of nongovernmental organizations to solve the desertification problem, increasing global recognition of desertification solutions, and the direction of the International Development Cooperation to solve the desertification problem.

In this conference four students, Kim Ji-hyung, Ahn sung-a, Kim su-hyun, and Park ju-yeong, from UNIST won the Gyeongsang-namdo Governor's Prize, by contronting many Department students splendidly.

Q1 Why did you participate in the conference?

We are all concerned about current events. So the group 'si-eum' which means 'we hear a sound of times' debates on current event problems in ordinary times. Then we saw the poster about the imitation UN conference for university students and our group decided to participate.

Q2 How did you prepare for the conference? We prepared the conference by studying hard for about two months after we resistered. First, we tried to acquire information related to deserts. And we had to study international relations. We needed to know not only a nation's policy, but also the nation's atmosphere because we represented different countries. At the conference, a counterpart asked a concrete question like "Did your country fail with that



resentative of that nation, to find out lots of data about it. Finally, we investigate whether our policy about combat desertification would actually help the environment, and apply to the world situation.

Q3 You are science and technology students. Did this cause you any problems, since the conference is related with humanities?

We needed a lot of time studying international relations, political science, and diplomacy because we didn't study these fields before. But we invested in these things harder than other students, and this affected us positively. Also the science knowledge helped us to contradict our counterpart's opinions. In the conference, a counterpart gave some policy using technological terms, but it seemed careless to you represent? us. We refuted that policy by our scientific knowl-

policy before?" So we have a responsibility as a rep-(laughing)

> If you are concerned about society or current events, your school department is not important for debating society's problems.

O4 What made you feel tired in the preparation process?

There is so much information about each nation in the UNCCD official internet site, so it is difficult to find out useful data. Sometimes, we have difficulty in making an appointment with our partner because our schedule is different. But we can get over these things with our partnership.

O5 You each represented a nation. Which did

Kim Suhyun: I participated in the first committee,

I represented Korea.

Kim Jihyung: I took charge of the Chile representatives. We chose the nation by drawing lots. I was very perplexed to take Chile. I barely know Chile, and I was not interested at all. But now, I know many things about Chile and I really want to go there.

Ahn Sunga: I was a Chile representative with Ji hyung. Chile was new to me, too.

Q6 What are your future plans?

Kim Suhyun: We will take part in more simulated debates. Also, we will take part in the 'national university student debate' annually. We will prepare debates in English in our club, because we building up to a debate in English, like the simulated debate. And we are preparing a program with a foreign professor in UNIST.

Q7 Finally, what are your thoughts about receiving this award?

Kim Jihyung: I want to be a 'T-shaped person', someone who is distinguished in one field and also knows many thing in different fields. When I prepared and took part in this simulated debate, I learned mar different fields, like natural environment, international relations and so on, not in my major field. And I accumulated various experiences. Therefore, this activity is very meaningful, because I am becoming a 'T-shaped person' through this activity.

Kim Suhyun: The English policy within our school became a great advantage in winning this award. If it hadn't been for our school's policy, we would have had a really hard time while preparing for this contest. Because all the meetings were held in English, we had to speak the language in a splitsecond. Therefore, I am thankful to the school officials who created this policy and to the "Si-eum" club members. In particular, I would like to thank Dr.Kang Sara, a professor School of Urban and Environmental Engineering, for her advice.

> Lee, Gangseok Jo, Hyejin

Jung, Kyunghun Lee, Teahee

Min, Hyungcheol

Instant and frozen food have a high ratio

No we can't. Those menus are the students'

favorites, and if we decrease this ratio, students

The things we didn t know about meal plan:

Talking with manager of dormitory & student's hall cafeteria

always a hot potato for the students, the school and the meal supplier "Our Home". It seems that the meal plan has many problems.

First of all, its quality is notorious among students, even though its price is not cheap (two



meals for a day 2,200 \forall , three meals for a day 1,860 $\forall \forall$). In addition, there are restrictions on the amount of side dishes, and while students can chose one of three menus for lunch and two ple, last semester, the meal plan period was menus for dinner, preferred menus usually sell until Friday while the curriculum ended 3 out as soon as the cafeteria opens. Furthermore, days later, on Monday. there are only two choices on the weekend, and protein is absolutely lacking.

don't have the meal plan.

The manager of "Our Home Unist" has changed three times, and some of these problems are slightly improved but still, students Monday aren't satisfied with their meal plan.

According to the research by Unist Student Dormitory Committee, almost 70% of students hate their meal plan and feel it needs to be improved. Especially, they don't like the side dishes and they want more fruit. However, "Our make sense. Home" maintains their position, which is increasing the price. The school doesn't show any interest in this issue, and while students keep saying their we include Chuseok in the meal plan, and fixed opinions, there is nothing they can do with this costs also contribute when this happens. It is because they don't have any alternative suppliers inevitable. to "Our Home".

The Media Center found that this comes from a miscommunication between students and "Our Home", so here we try to make an occasion to understand each other. We made some that OurHome offers special menus as the questions based on students' request to "Our solution, but many students feel that it is not Home" and "Our Home" answered these ques- enough to compensate for our high 'skippingtions.

the food which provided by "Our Home" and ple. How do you think about this? about the price of the other part such as labor cost. rental income and light and water opinion. You can think the special menu doesn't expense?

The menu cost isn't always the same. It is sider the high skipping-meal ratio. But we provided between 1,250\# and 1,650\#. The expensed more money than your expectation. mean value is about 1,430₩. Usually, the cost For example, we expensed more than 9,000₩ of ingredients is 60%, labor cost is 28%, rental per student in ingredients cost for the pork belly income and cost of maintenance (light and water special menu last semester. Of course, the materexpense) is 7%. For example, for 2 meals provided for a day at 2,200 + 4, this price includes tax. So by subtracting tax (2,200 H/1.1), in other words, by using 2,000 we as criteria, we would



It's been three years since the meal plan start- see the cost of ingredients at 1,200 +++, labor cost "Our Home" has data about students' prefer- dent meal. ed. Since the beginning, the meal plan was at 560 # and maintenance (light and water ences but it seems that it doesn't affect the expense) at 140

> How about the 'skipping-meal-rate' (the number of students expected who don't eat).

The rate of skipping a meal has a big difference between weekday and weekend, morning and evening. First, weekday morning's skippingmeal-rate is more than 20% but lunch and evening's own is smaller than 10%. Meanwhile, on the weekend, there are slightly difference among the morning, lunch and evening. But the skipping-meal-rate is between 30%~40%.

What is the amount of food that has been prepared?

There is no definite answer to this question. We just prepare about 10%-15% more food than we think will be distributed. It can be considered as 'left food'.

The meal plan period is not completely the same as the scholarly curriculum. For exam-

The last week is an exam period, and many students finished their final exam by Friday, so A student cannot live in a dormitory if they we decided to set the meal plan period until Friday to reduce student's loss for skipping meals. And for the students who stayed until Monday, we provided food from Saturday to

> We thought that the meal plan schedule has some problems. For instance, at Chuseok, many students are not in the dormitory, and they don't eat meals in the cafeteria, but "Our Home" includes Chuseok. It doesn't

Even though at Chuseok, most students don't eat meals in the cafeteria, some do. That's why

In the case of Chuseok or weekends when the 'skipping-meal ratio' is relatively high, students who don't take their meals are dissatisfied with their loss. We already know mealratio'. It means that quality and quantity Could you tell us about the unit price of of the foods are not satisfying for many peo-

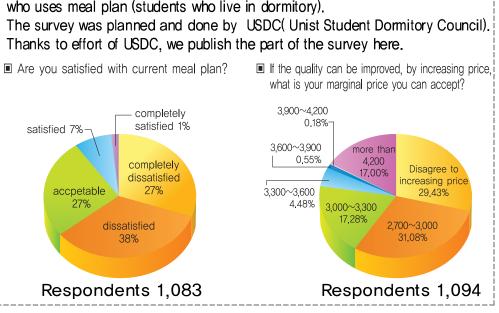
> For this question, I really want to insist my have appropriate quality and quantity when conial cost for this semester was not that high, roughly about 5,500 \clubsuit . And, it's not only for offering the special menu for a limited time. We recognize the skipping-meal ratio, and reflect it in daily meals. As I already said, our material cost range is 1,250~1,650₩. Since we set 1,200 #(this is for 2-meals per day student, this cost will be lower for 3-meals per day student) you can easily understand that you can enjoy this better meal (in terms of material cost) partly due to the skipping-meal ratio. So I hope you don't think we are just taking all the profits for skipped meals.

Students are upset with the menu. First of all, "Our Home" doesn't reflect students' preference, and the nutritional balance is imperfect. After three years, we guess that

meal plan. In addition, how do you think in the meal plan. This causes a nutritional about the students' point about nutritional imbalance and adds calories. Are you going to imbalance?

About students' preference, we think that there is no menu that will be "every students" favorite". According to this, the number of stu- will complain about this. This is so evident, so it dents who aren't satisfied with the daily menu is hard to fix those menus. has been growing. Furthermore, the menu which students want are including meat and instant food. These foods cost a lot and have imbalanced nutrition so it is not appropriate for stu-

On the while, There was an simple survey about meal plan for



fix this menu?

New symbol of UNIST, **Media Tower**

UNIST has installed a new 'Media Tower' at the entrance to campus, as an information delivery system to encourage communication, and complement or replace existing placards. The giant, 8x7.6m LED screen was placed with consideration of its visibility and its visual balance with the campus buildings. Furthermore, they are designing a plan for constructing an integrated multi-broadcasting system in the near future, which will uphold the reputation for being a high technology campus.

Using placards and printed matter for promotion has a lot of problems. In the case of the placards, they defile the appearance of the campus, and it can be hard to see the con- is ready, announcing quick notices will be posan effective way to promote, since its target information. might be only specific people who receive or see the paper. The media tower can address those problems effectively. Firstly, the media because it is intended for unspecified individuals and can arouse their interest optically. Secondly, it is economical since it can cover media tower." many changing contents. Like this, the media tower can improve the information delivery system and interactive communication. So, increased.

broadcasting system. The School predicts a tower." connection between the media tower and a



kiosk, and also internet broadcasting. When it tents. In addition, they are expensive and sible with an instant ticker or an emergency cause damage to the environment because broadcast. Students can save many steps to they are single-use. Paper promotion also not check for important academic notices or other

Haisol Nam, a junior in the Interdisciplinary School of Green Energy, said, "When I did a task in the Lab, I was sometimes disturbed by tower can increase the promotional effect the noise which occurred from friction between a placard and the wall. But now, I can concentrate on my task without noise, thanks to the

Another junior, Semin Oh, who belongs to the School of Nano-Bioscience and Chemical Engineering (NBC) said, "Whenever I walked the prestige of UNIST which aim for campus on the street between the Natural Science life based on high technology would be building and Main Adminstration building, I used to feel deserted. But the media tower can The media tower also will become a symbol fill the space with attractions and remove the of UNIST as the center of the integrated multi- lonesome feeling, so, I really like the media

Kwon, Hyuneui

UNIST Cheerleading festival LaonNuri

The first festival was successfully came to an end

Friday, October 8th, the first Cheerleading Festival 'LaonNuri' was held in the open air theater at UNIST. The recent cheerleading event was hosted by the UNIST cheering squad UNICH, together with the POSTECH cheering squad CHEERO. At 8pm, many people came together in the open air theater, as the cheerleading festival was advertised and prepared successfully. To being, UNICH performed to the song 'spring waltz', followed by 'versailles's rose', the 'hahaha song', the 'Rage of the winter-Rhapsody of fire' and so on. After UNICH, POSTECH's cheering squad, CHEERO, performed a celebrity performance. Finally, UNICH taught everyone UNIST's cheering song.

After the performance, we interviewed Im Sowon, leader of UNICH, and Lee Donghyun, leader of CHEERO

Please tell us about UNICH

Nice to meet you. I'm Im Sowon, the leader of UNICH. UNICH was founded in March 2011. We have performed at school festivals, freshman orientation, and other performances since we were founded. Before this, UNIST didn't have a cheering culture, so we want to make a cheering culture and give energy for Unistars.

What is your motivation of creating the



cheerleading festival?

The reason we prepared a cheerleading festival is because it's a chance to get along with each other. And we wish students to become lively. Also, it increases school's status through outside advertisement

Did you have any difficulties in preparing the first cheerleading festival?

UNIST-Ulju-gun Science Academy Mentoring Camp Complete Ceremony



This summer. UNIST held a free science other middle school students from Beomseo or experiment with robots.

camp was a good opportunity for their son. graph together. Also, the student said "It was good to meet

academy mentoring camp to inspire hopes and Chunsang". Some of mentors, however, said dreams and to put power into the improving they had a few hard days because they could academic ability of the students living in Ulju not have their own private lives. On August district of Ulsan. Eighty mentees were selected 19th, the camp held a closing ceremony in the from 3 middle schools located in Ulju district, Technology Management Building. Along with and 20 mentors were selected by UNIST. the camp participants, mentors and their fami-Mentors taught mathematics and science came lies, many celebrities attended the UNISTthrough a competition of 6 to 1 to get this vol- Ulju-gun science academy mentoring camp unteer. During the four week (from July 18th to ceremony. They were the president Moo Je August 19th) period of education, the students Cho, the vice president Moo Young Jung, the took part in English, Mathematics, Science, and Chief Information Officer Jin Hyouk Im, the Physical education classes, reading time, free Ulju-gun governor Jang Yeol Shin, the Uljustudy and extracurricular activities such as a gun Gang Gil Boo, the president of Ulju-gun special lecture by the astronaut San Go and an assembly In Sik Choi, and principals of Gooyoung, Beomseo, and Chunsang middle Each mentor took care of four mentees liv- schools. The ceremony included a congratulaing together all day long. One student from tory message from Moo Je Cho, president of Bumseo middle school said "It was really good UNIST. He celebrated the successful mentorto see how university students study as I lived ing camp at UNIST, and said "I think it was with my mentor around the clock." His parents good chance to inspire dreams of becoming a were also satisfied with that fact. One of par-scientist who will drive our future." Awards ents of a Gooyoung middle student said their were presented to the 8 most excellent students. son liked his university student-teachers After the awards ceremony, the UNIST-Uljubecause they are different from his middle gun science academy mentoring camp was school teachers. They felt that this mentoring completed by taking a commemorative photo-

Kim, Bada

port enough money for school, so we had trouble in making money. Problems were discovered as we prepared the festival for the first time, but we are happy because many people came and enjoyed the fruits our efforts.

The festival's name is LaonNuri, what does it mean?

We selected this name through an in-school contest exhibit. 'Laon'means "happy", 'Nuri' means "world", so LaonNuri means "happy world"

How do you feel about the performance with CHEERO?

CHEERO is our role model. We learned many things from them, so we are happy to perform together. We want to thank them for coming to UNIST.

How can you develope the cheerleading festival for the future?

Because this was the first time, only a few people knew of its existence. From now on, we wish this festival will develop and the number of visiting people increases, along with the support and attention. We hope LaonNuri will be the main festival in Ulsan.

Please, introduce us to CHEERO.

Hello. I'm Lee Donghyun, leader of CHEERO. CHEERO was founded in 2002 to

Young scientist visits UNIST!

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selected based on an essay, teacher recommen- high school students." dation letter and a transcript of school records, can participate in this program. Sophomore stu- Highschool) said "E@U helped me to find my dents in international high schools, academic way and information to enter the university. I high schools, and foreign language schools can was assured that I'm interested in science and apply for the program. Students from every city engineering by the lectures. It was great that I took part in the program, though most were could try experiments with undergraduate stufrom Seoul area, Busan and Kyungnam

view, mathematics and science lectures in English, a line tracer competition with seniors, physics biology chemistry labs, a lab and feel sad about is that the time is too short to school tour, and watching club performances.

know about UNIST, and help high school stu- happy to join" dents to find their interest. The person in charge

cheer on POSTECH in a POSTECH-KAIST match. Now we participate in the POSTECH-KAIST match, Pohang festival, freshmen orientation and so on. Also, we are the squad that strives for uniting Postechians.

What were your first feelings when you came to UNIST? And, how to you feel about your performance with UNICH?

When we first came to UNIST, all the students were lively and the buildings are wonderful. Last year, we contacted UNICH, but we had no chance to perform together. This time, we are happy to perform with UNICH through this festival. We want to have more interchange with UNICH.

How can the cheerleading festival develop in the future?

First, we congratulate UNICH on their successful cheerleading festival. Thank you for inviting us to UNIST. From now on, LaonNuri will be a festival that all Unistars can enjoy and it will become specific to the culture of UNIST. The first festival was successful. Next time, we expect new cheering songs and more variety performances.

Does POSTECH have a cheerleading festival, like LaonNuri

Before the POSTECH-KAIST match, we had a final rehearsal in POSTECH. At that time, we performed our cheering song. During cheering orientation, we teach freshmen to our cheering song and perform cheerleading stunts.

The first cheerleading festival 'LaonNuri' was a success. Through this cheerleading festival, unistars feel that we are one, and a specific cheering culture will be made. Next time, a more developed performance is coming. This time, not only Unistars, but local residents will also enjoy the festival.

Jin, Wooyoung



Explorer or E@U, is a special program for of E@U said "The '2011 Summer Explorer high school students, which ran this summer @UNIST' program gave a big help to the stufor three days, July $25^{th} \sim 27^{th}$. The E@U prodent's, to explore their careers by experiencing gram allows high school students to experience top level of lectures and education with great research education with UNIST professors and professors. They had an opportunity to experidmissions officers. ence high technology, lectures to find their Only 312 students, who are evaluated and interest, and a mock interview for outstanding

Bae Su Yeon(18, Samchuck Girls dents. They gave me a lot of advice. The most The content was composed of experiencing interesting activity was the mock interview. 7 lectures for career exploration, a mock inter- I'm always afraid to talk in front of people, but through the mock interview, I could find my problems and gain confidence. One thing that I learn everything at UNIST. If I have chance to These programs give students a chance to participate in this camp again, I would be

Surprising communication of 18 minutes!

TEDxUNIST to be held on December 3rd

of "Technology, Entertainment, an idea that suits the slogan. Due to to receive a license from TED. Design". It started as a conference TED preconceived notions that only about these three fields, but it now also discusses fields such as Environment, is a time of communication in which

celebrities have something to say have ideas. If you want to become a leader



experts or ordinary people share ideas with others. Although they have just 18 minutes to communicate, many people cry, laugh and open their minds that we couldn't experience before.

who communicates globally, join the world of TED.

The 'X' in "TEDx" means it is an 'independently organized TED event'. through the TED talks. The way of TEDx is a program that helps when party. Of course, we were impressed communication in TED is a new thing people hold a lecture. TEDx is different with TEDx. We wanted to do this TEDx? If so, how was it? from TED because it is voluntarily held event. Finally we made this team. We can hear easily a lecture by a by a school or business member. TEDx

TED is a nonprofit organization celebrity like Bill Gates, or Al Gore in is not an organization. It is an event that the TEDxUNIST? with the slogan "Ideas Worth the TED conferences. Anyone can is organized independently of the pro-Spreading". TED is the abbreviation give a lecture in public, if he or she has gram. To hold a TEDx lecture, we have the license. But it was delayed, due to

events in Korea. TEDxMyeongdong ing three things at the same time: find- to do it ourselves, because it was simibeen broken, and there is a new aware- held the most events in the world. Arts, Science etc. A TED conference ness that everyone can share their UNIST is also preparing to hold a TEDxUNIST lecture on December 3rd.

These are the interview with the students who are in charge of TEDXUNIST.

Q1. What was the motive of starting the TEDxUNIST?

the slogan of TED? I planned to potential of Sixth Sense technology' spread great ideas, such as TED's slo- with Paranav Mistry. He didn't use communicate with them. gan, to the students of UNIST and other people. I would like to make an opportunity for the students to meet various people.

Q2. How did you make this team? doing assignments is not good. I think grafting the iPhone into magic Sharing ideas is better than that, and I want to engage students more and feeling. more through this event. So we held the presentation party to share our ideas. We prepared food, the place for the party, and invited student speakers. Then one member was invited to TEDxBusan and we went to the event. We felt that this was similar with our that time we were happy.

A: To hold a TEDx, we need to get TEDx, the two events were definitely the new rules which were made this ing guest speakers, finding sponsors to solve the problem.

ommend for students to listen to?

A: I'll introduce a lecture in each field; Technology, Entertainment, and A: Could I say I was charmed with Design. First, there is 'The thrilling expensive equipment, but the idea was creative

Second is 'The magic of truth and lies (and iPods)' by Marco Tempest. difficult, because TED is a nonprofit He used the Apple iPhone, which most organization, so we can't make a profit A: I think that just studying and UNIST students have, as a magic tool. was interesting. It was a TED-like

The last lecture is 'The beauty of data visualization' with David Siyong, Jeong Sanghoon and so on. McCandles. He made the information visual so we can understand more data than before. It was amazing! We sent community? mail to him and then he replied. At

A: We have participated in the Q3. How is the current situation of TEDxBusan and the TEDxHaewoon-

dae. Even though they were both different. Each TEDx was unconventional and unique. After we participat-Currently there are many TEDx year. Originally, we had been perform- ed the TEDx together, I really wished lar to the presentation party we held. and obtaining the license, but now, we And there were many impressive guest are concentrating on getting the license speakers, too. At the TEDxBusan, the audience acted with one heart and Q4. What TED lecture do you rec- mind. Turning this TEDx into role models, we would like to make a time to unite the UNIST students together. To the end, the TEDx caught my fancy in the point that students can talk on equal terms with the speaker and

> Q6. Are there any difficult problems in preparation?

A: I think liaising for a sponsor is for them. So it's hard to solve the financial problem.

Q7. Who will be come to UNIST for TEDxUNIST?

A: There are Hur Chan, Park 08. After the lecture is held, what

effect do you think it may have on the

A: UNIST's students can grow by communicating with more various Q5. Have you ever participated in people. And perhaps UNIST can be better known to others.

Kim, Siin

The student's endeavor to develop app for blind people

The Voice of Sullivan Wins The Triple-Crown in the National Social Venture Contest

"Sullivan's voice", the student project the Ministry of Employment and Labor can't see those things. and the Korean Social Business Agency, Jung Sul-Ki freshman, Baik Ji-Youn prize)", "SK Innovation Award(5 million won prize", "Deloitte Sponsorship Award(5 million won prize)", and so on.

"Sullivan's voice" stared due to the blind people.

The aim of this project is to reduce team of UNIST has won the grand the discrimination and overcome the prize(The Ministry of Employment and isolation felt by blind people. Many Labor Award) in the general idea catego- people use smart phones, and there ry of the 2011 National Social Venture are lots of information that is visual, Contest. This contest held for the third so it became very convenient. On the consecutive year has been organized by other hand, it alienated people who

The voice of Sullivan is going to run and has been sponsored by the Ministry an application for both disabled people of Science and Technology, the Small and abled people. For visually handiand Medium Business Administration, capped people, the team made only the SK, and Deloitte. UNIST "Sullivan's four menus in order to minimize the Voice" team, composed of 8 people in potential for mistakes and sustain the total (Team leader: Lee Ki-Hyuk sopho- interface intuition. If you go to 'audio more, team members: Kim Woo-Joong book' menu, blind people can know the junior, Kim Yun-Kyung junior, Lee name of the contents by using the Jung-Min sophomore, Kim Hyun-Woo "voice over" feature. After selecting the freshman, Lim Dong-Hyun freshman, contents, they can hear the audio book.

"Ask anything" is also an audio serfreshman), has attracted great attention vice that becomes the eyes of blind peofor winning 3 major prizes of the contest, ple. Up to now, the knowledge sharing such as "the Ministry of Employment system has been achieved through text and Labor Award(30 million won messages, for normal people. "Sullivan's Voice" is founded on the senses of touching and hearing for seeing-impaired people. The knowledge is shared and transmitted through the voice and the screen social trend that smart phones are shows at most four choices allowing the widely used, yet are inconvenient for north, south, east or west movement of capped and non-handicapped people. the finger to perform any function.



Furthermore, because the application is tomized system that uses the regional through audio and GPS service. It will based on Crowd Sourcing, if enough information. The regional information allow visually-impaired people, who feel users are secured, fast and easy answering system of "Sullivan's voice" connects a restricted to familiar places due to their will be available, and it will attract voluntary participation from people, stimulat- capped person. For a non-handicapped unfamiliar places by obtaining quick and ing communication between handi- person, that person chooses their region accurate regional information.

"Asking about the region" is a cus- connected to a handicapped person

handicapped person and a non-handiof interest during registration, and it is

blindness, to go by themselves to even

Chung, Belinda Baik, Jiyeon

Opening of Ulsan Science Museum

It was overcrowded since the opening "Where are amenities?"



ny for the Ulsan Science Museum, the nation's consists of water and uncorrupted plants. largest science museum, in Ok-dong. It has been built to the tune of 35 billion won, which involves Kyuk-Ho, and Ulsan Education Office's 11 bil-

lion.

Ulsan Science Museum has been built to provate creative talent.

day. As entrance fee is free for all visitors, it is comparison with any other science museum. contrasted with paid admission of the Gwacheon in 2008.

On the first floor, 'The Space of Time' displays the making process of Lotte brand snacks, tures with characters.

divided into three segments those are 'The Nature parents. of Ulsan', 'The Meeting of Science' and 'Science experience the principles of the water pump, the home page (http://www.usm.go.kr/). waterwheel and the bucket directly.

'The Nature of Ulsan' displays Ulsan's ecosys-



Last March 30th, there was an opening ceremo-swamp, it is rolled because of the sediment that

The third floor display continues onto the fourth floor through 'The Space of Thinking', a donation of 24 billion from Lotte president. Shin which is for students aged eleven to nineteen, just as the first and second floor are for the lower grades of elementary school. Actually, there is an exhibition about that we learned in the college vide places for experiences and exhibits that help curriculum. Therefore, Guids are on standby near improve curiosity and interest for science to culti- the exhibitions to help explain them. The displays that deal with the principle of science easily and It was already crowded in the early morning. funny (Pythagorean theorem, light and mirror, Actually, there are on average 1500 visitors per scientific study of cognition, etc.) don't suffer by

On the fifith floor 'The Space of Research' National Science Museum that has been opened arranges what we learned from our high school classes, like the periodic table, gyroscope, polarization, etc. In particular, the virtual automobile simulation game, made to aid understanding of with an animation to help children understanding the periodic table atoms, is the most popular with easily. Also, there is a segment that can snap pic- children. Even adults show an interest in the display that looks into a tornado's principle of gener-'The Space of Meeting' on the second floor is ation. At the end, there is broad lounge for waiting

'Byeolbomi-Astronomical Observatory' on the Play for Children'. To help understanding dynam- sixth floor will be completed with the installation ics, 'Science Play for Children' arranges the water of a refractor in November, and it can be used table that gives parents and children a chance to after making a reservation through the museum

Mr Lee, a man visiting the science museum with his three children, said, "It's a pleasure to see tem with many miniatures and explanations. the Ulsan Science Museum because in the past, Among the exhibitions, the reproduced miniature we didn't have any chance to experience science of Moo-jaechi swamp has become popular on that with children in Ulsan. Today, my children floor. Moo-jaechi swamp, located in the Samdong enjoyed seeing the displays and understood the village in Ulju district, was designated as 'Ramsar fundamentals of science easily. But, there are no Swamp' in 2007. When people step on this amenities around so it was inconvenient and it should be improved later."

> Indeed, there is only one lounge, for eating a packed lunch, on the first floor in a separate building, but there aren't any convenience stores or restaurants. If Ulsan Science Museum manages a food court like Gwacheon National Science Museum did, visitors will be able to more fully enjoy the exhibitions.

> Although it usually takes a whole day to go through a science museum, it only took about 3 hours to see the Ulsan Science Museum. The parents visiting the science museum with their children and a packed lunch on the weekend feel light on their feet.

Old meets new in fusion concert "Forging new traditions through Ta-Rak"



NAEDRUM, Sunsook Lee, Hyesook Kwon audience. and POSSI CREW on September 28th, in the UNIST gymnasium. The concert was called group dance, called 'Pongpongpong' was mod-'2011 Sympathy 打樂 Concert'. 打樂(Ta-erate and perfect, 'Hwasunmu' made us feel as rak) means beating and enjoyment. The con- if we could smell flowers. 'Moosok fantasia' cert was composed of Samulnori, a Korean was dreamy. 'Samulpangoot' was impressive traditional percussion quartet with Korean because of the twirling Sangmo which is a hat traditional dance, together with a B-boy per- with a spindling fabric . Also there were 'Love formance. The Samulnori performance was song' among 'Chunhyangga' and a flashy Bdynamic and really fun. The Korean tradi- boy dance performance. The final number was tional dance boasted a graceful and beautiful 'Fusion Pangoot' which is a meeting of B-boy figure and the B-boy performance was fan-performance and Samulnori, and the concert tastic. These three things mixed well togeth- came to an end. Even though the concert was er. They showed that a performance does not over, NAEDRUM and POSSI CREW continhave to be bound only to tradition, but can ued their performance surrounded by the audiencompass various genres together. It was ence.

There was a fantastic fusion concert from successful at getting a response from the

The concert started with NAEDRUM. Their

Below is interview with NAEDRUM and POSSI CREW.

Q1. How did you come to mix B-boy dance with Samulnori?

A(NAEDRUM) We started the '打樂 Concert' about 4 years ago. Even now, we are modifying this concert. Actually, at first it was not large scale like now, but we wanted to show the audience more and more. And then we thought we needed something different. We'd already known POSSI CREW those days. So we decided to make a composition between B-boy dance and Korean traditional dance. We made our own small name with 'Fun & Pan'. 'Pan' means the outdoor stage of Korean traditional dance.

Q2. What is the effect from joining Korean traditional dance and B-boy dance?

A(NAEDRUM) At first, the strong point is that we can get closer to the audience. Korean traditional dance is unfamiliar to people. But if we perform with a B-boy team, people are more comfortable than before. These two dances are mixed not unnaturally, but to make synergy effects by conflicting with each other. But it has some dangers. If we mixed together without sympathy, it could go a strange way. By respecting mutual tradition, good music can be made.

A(POSSI CREW) Samulnori is a Korean traditional thing but B-boy dance comes from the west, so it is difficult to mix together. People generally think that a tradition will be difficult and boring. But if the tradition makes some harmony with a fantastic performance like B-boy dance, people can accept it more easily.

Q3. What do you want to deliver to the audience through this concert?

A(NAEDRUM) We want to break the prejudice about a tradition. Young people think the tradition is difficult but we want to say NO. We hope that people feel like our concert is like a popular singer's concert. So please respond like you respond to a popular singer. We want to approach the audience as familiar Korean traditional music. In addition, we participated in the 'World Music Festival' last year. We were invited to Australia by foreign marketers who were at that show. It called 'Australia World Music Expo(AWME)'. It is to show traditional music from all over the world. 30~40 countries participate this Expo, and we will go as the representatives of Korea this November.

A(POSSI CREW) We want to show that oriental things are never boring, and it can be expressed in various way. Actually these days, B-boy dance is common. So we tried to find something new rather than common B-boy. We are trying to make a cultural icon. Our purpose is that we show people something new.

All the Business of the First Students Councils. GoTogether



After a term of two years and three months as student body president, Sujin Pyo has stepped down from the front lines.

When UNIST was founded in 2009, Pyo was elected president by a student vote, and along with many officers, has strained every nerve to help the Students Union become recognized as the representative of the student body.

Now, UNIST has recognized it and asks the Students Union for their opinions concerns. In addition, each department and the chancellor, have sought ways to improve this school together, including regular meetings with students to elementary schools and do some exciting experiments with passing on complaints.

Students Councils No. 1, with the motto "Go Together" was the foundation of all business, which helped the No. 2 erning bodies at UNIST and has done everything it can to and No. 3 Students Councils to be recognized as student representative bodies.

organization into chaos. Because of this, Sujin Pyo, and many officers, configured the Presidency with various committees with work in progress, and an organization chart of the most many officers, retired at the end of two years and three important local governments has been completed.

This means that the Students Foundation of governments at UNIST was settled, and at the same time, there is significant progress being made towards transparency as the institutions check and deliberate with each other.

'Date with Students', an event indicating the direction of the student body and accepting feedback from other students, has done with many things to help make UNIST more convenient for students, such as the installation of ATMs, and the extension of the lunch hou

Students Council has run various projects with substantial benefits for students. For instance, UNIST doesn't have a variety of means of transportation. That's why they are trying to reduce the cost of using a taxi. Also, through an agreement with market, they have been planning a Vitamin Festival where students can purchase good quality fruit for cheap.

In addition, the Spring Festival has been planned annually by the committee, to unity between the students and induce various clubs to participate in booths, providing an opportunity to show off their talents and welcome new members.

Students Council No.1 did not downplay the interuniversity exchanges and has laid out several projects. UNISTADI-UM has been held annually among KAIST, POSTECH and UNIST by competing in sports. During vacation, UNIST has sponsored volunteer activities by helping science students go elementary students.

'Go Together' Students Councils No.1 organized self-govtion of UNIST, they think it is important to promote interuni-As with any organization, the absence of hierarchy puts the versity exchanges, and has performed several projects for the welfare of the dot as a student.

> The president of Students Councils No.1, Sujin Pyo, and months on the front lines, but the next Students Councils, who will share the vision of the first, should complement the work done to extend students' welfare with their efforts and plans. Lee. Sangmyon

Quarter System **On the**

a reaction and every

be. In other words,



Hyuckjae Choi

change is big. take more courses in one year within the quarter system ciencies causing higher management costs. for the adaptation to the new system.

lege tuition is one of the hot social issues. Furthermore, the mizing the potential problems. quarter system provides students with more options for

As Newton's third their futures. For example, if a student wants to study here law tells us, every for two quarters and spend the rest of the year studying action is followed by abroad, that is completely fine in the new system.

On the other hand, there are some concerns about the initiative faces an implementation of the quarter system. First, it seems possiopposition. The more ble that the quality of education could drop, due to a shortradical the initiative ened course schedule. It means students should finish ceris, the more intense tain courses in just two months where it is even difficult to the opposition will finish them in three months.

In addition, management problems, like an increase in people inherently costs, will occur. Since the uncertainty of when and how dislike change beca- many students will take certain courses in a certain quarter use it always takes is now much greater, UNIST will have to offer more sesenergy to adopt new sions of the same course with more instructors. That not things. This is espe- only will increase the cost of hiring more instructors but cially true when the also increases the inefficiency of managing the curriculum.

To conclude, implementing the 'quarter system' could UNIST has recently announced its 'big' plan to imple- be beneficial in that it will decrease the tuition and the time ment a new curricular system called the 'quartersystem'. needed for earning college degrees, and students are given Inbrief, implementing a quarter system means replacing more career options, but it is also possible that it may be the current two semesters with three quarters. You can harmful due to lowered quality of courses and ineffi-

than within the traditional system. There are pros and cons However, since the decision has already been made, UNIST should make the most of it the policy and imple-To talk about the advantages, students can earn their ment it correctly, so that it extinguishes all the worries and Bachelor's degree in three years and save 25% in tuition. complaints. I hope that UNIST will be successful in the This looks quite intriguing because today overpriced col- 'transplantation' by maximizing the benefits while mini-



Prof. Jinsook Choi (Division of General Studies)

work like robots.

Fighting?

No, Enjoy!

How to be a Creative Engineer

"Fighting!"

know that this is how the Korean economy became highly developed after the Korean war that had destroyed almost enjoy what we are doing rather than everything. We had to restart all over 'fight!'. UNISTARS are young, again. The impetus to rebuild our coun- dynamic, and full of potential. In order try came from the spirit of "fighting!", to fully utilize their potential, they need because we had to compete with North to learn how to enjoy work and be Korea in the 60s, with Japan in the 70s, proud of their work. and finally to go for world top ten.

But now that we have reached a cer-

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Toward A World-Leading University

Imagine robots working in a lab. tain level of economic development and Robots don't have to be creative truly compete with first world countries, because they do what they are told to we need a different model. Right now and they just work hard. But I think what we need is 'creativity'. Top uni-Nobel Prize winners, Steve Jobs, Bill versities around the world already start-Gates or anyone else who is inspira- ed to emphasize 'creativity' in their edutional to UNISTARS do not seem to cation in the 90s, because that is the only way they could survive and go for-A Brazilian soccer physical trainer ward when it is impossible to distinthat I got to know in Ulsan told me that guish yourself in this hyper-globalized in Brazil, soccer players are expected to world where almost the same hardwares be 'creative' on the ground. And in are shared. But in order to be 'creative', order to be creative, they have fun in you cannot just say "Fighting! Let's playing the game. They say, 'divertise!' become creative!" because creative (enjoy!) right before every game starts. thinking is that which leads to making In contrast, Korean soccer players tend products that can be differentiated from to be too serious about games, as if they any other products. Do we want to conare going off to a war. Yes, each soccer tinue making the same product, or game is a war. You can lose the game, something different than the rest of the then you are in trouble, and you can world? If we choose the latter, then we even get hurt, sometimes you may get need to think differently, and if we want injured so that you cannot even contin- to think differently, we need to be ue playing soccer any longer. What allowed to be imaginative and creative would that be if it is not called a 'war'? instead of working like a robot. One is So, when we see a sports game in no longer motivated only by carrots and Korea, the players get together right leash at some point. True motivation before starting the game and say and passion come when one can enjoy what he or she is doing. Imagine that I see a similar scene everywhere in your products will improve our life, and Korea. Maybe this attitude is not just make people happier. Then we can even applied only to the sports games after enjoy difficulties that we face in our all. To be number one, to be world top work. Imagination and creativity are the ten, or to receive a nobel prize, Koreans building blocks of a great product still to say "Fighting! We can do it!" We be invented that nobody has ever thought of.

Then I think we should be able to

UNISTARS, divertise (Enjoy)! tostijin@gmail.com