

NEW: IDE-STUDENTS IN EXCHANGE PROGRAM WITH CHINA

'A great opportunity'

As part of an exchange program of the Industrial Design Engineering faculties of both the UT and the Chinese Jiaotong University in Beijing – a top institute – ten Chinese master's students will come to Enschede in the last quartile of this academic year. In September a group of ten UT students will leave for Beijing to follow the first quartile of the new academic year. The initiative was set up by professors Arthur Eger (Product Design) and JW Drukker (History of Design).

'We received an invitation from the Chinese professor in Architecture and Art Design, Yi Xiao,' says Eger, 'She was guest lecturer at the UT in February this year, and she came to me and my colleague JW Drukker to talk about the possibilities for a further exchange. We wanted to attend, but in China there are seven ways to say "yes," and we didn't know which one Yi Xiao meant. She kept answering our e-mails though. In the end their answer was "yes, yes" as well.'

Yesterday the professors organ-

ized an information meeting for students. 'The exchange of two and a half months is meant for master's students in Industrial Design Engineering who follow the Design and Styling track. Next to that students of the Architectural Building Components Design track are eligible.'

Students can earn 20 study credits. 'The first two are for following an introductory course on being abroad,' Egers laughs, 'We want them to behave of course! And they have to guide a Chinese student for three more credits.' In

Beijing the participants follow three courses of five credits each. Those are: traditional Chinese architecture, product design for a Chinese company and urban design. 'During the last course five teams of four students – two Chinese and two UT-students – design a residential area. In preparation for the course we will visit the Roombeek (the area that was blown up during the fireworks disaster eight years ago, after which the entire area was redesigned) here in Enschede.'

The professors went to Jiaotong University three weeks ago to confirm the exchange program with a contract. 'We were welcomed most pleasantly,' laughs Eger. 'They picked us up from the airport and took care of us the entire period. We were pampered for a week! My colleague and I have dined alone twice; everything else was taken care of and paid for by them. Every morning another present laid waiting. Apparently they want us very badly!'

The exchange program is the beginning of further cooperation like lecturer exchange, guest lectures and joint research. 'Jiaotong University is comparable to the UT: a technological university with a definite social sciences part. The institute is among the top ten ranking Chinese universities. They have a very good architectural education program with elements like graphic design, art design and interior design. We must have students who want to go there in the future.'

The exchange was settled on mutual terms, says Eger. 'Tuition fees and lodging are paid for and only the trip, food and drink need to be paid by the students. I think it's a top offer. The foreign experience is an enrichment, and you can follow interesting courses – a once in a lifetime opportunity.'

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English edition

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Diverse perspectives on internationalization issues

The symposium last Friday focused on the topic of internationalization and what central role it has in the context of social involvement. Four members of the panel, representing various International Student Associations, spoke openly on the inter-relationship of Dutch and international students. Following are excerpts from the panel discussion on 'Internationalization and Social Involvement.'

Hasan Sozër, PhD candidate, Turkish Student Association, Faculty of Electrical Engineering, Mathematics and Computer Science

'People from other cultures are educated differently and have different views. The international community needs to connect more with the Dutch.'

Mingliang Jin, PhD candidate, Chinese Student Association, BIOS, Lab-on-a-chip group

'We want to welcome Europeans in China. See China and judge it on your own opinion. It is changing

fast. When students from China ask my advice on studying overseas, I recommend the Netherlands. But because the bachelor studies are given in Dutch, they choose English speaking countries first.'

Elske Olthof, Master's student, Erasmus Student Network, Civil Engineering

'We have a big program to introduce foreign students to the Netherlands and to each other. A lot of Dutch students don't know there is such a large international community on campus. It's our goal to make one big community.'

Pramod Agrawal, PhD candidate, Indian Student Association, Faculty of Science and Technology

'Our organization brings part of our culture here to the campus so that we can share it and interact with others. Now it's time to grow further, to have an exchange of students. We need to help students to go back, so there is no brain drain or gain, but brain circulation.'

ces and engineering disciplines. Developing countries represent an enormous market, but again, the economy is global. During our financial crisis, Chinese institutions are supporting western economies. These are all indications of changing roles, changing positions, which once more indicates it is in our own interest to keep lines, not only open, but to open them wider and to work together as much as we can.'

Molenaar stressed the need for Dutch students to be part of the international community. 'I've been working on this issue for a long time. We think we're international, but we're self-centered. It's the same with the economy. Roles are changing. Developing countries have the same rights we have in a global economy. We're not use to that.' The question about how to strive for better integration between international and Dutch students is one that Zijm admits to have agonized over, and he claims to be disappointed by the lack of uniformity between the student associations. When a member of the Student Union was asked to res-

pond on the issue of integration, her reply of better communication sparked a language debate. Pramod Agrawal argued that English at the UT was superficial. He said, 'On the surface, yes, it's English, but if you go a little bit deeper, no.' Molenaar advocated communication in English at top levels, and he also said, 'the results of our surveys tell us that students are more comfortable with non-native English speakers because our English is fluent but at a level they can understand.' Zijm thought it was not something to shy away from. He mentioned the University of Utrecht where disciplines are taught in English from day one. He said, 'In Groningen at the bachelor level, the first year is in Dutch, the second year is a mix, and by the third year it is almost completely in English. If we change to English in Twente it might affect the regional inflow, but we'll gain an international environment. Some disciplines won't be afraid to start to the experiment.' Mingliang Jin offered his views on the subject, saying that the lack of English at the bachelor level prevented

SYMPOSIUM ON INTERNATIONALIZATION AND SOCIAL INVOLVEMENT

Henk Zijm remains UT ambassador

A symposium on internationalization and social involvement was held in honor of the retirement of the Rector Magnificus of the University of Twente, Dr. Henk Zijm. At the event, Dr. Anne Flierman, chairman of the executive board of the UT praised Zijm's contribution to the internationalization of the UT, saying that Zijm had been largely responsible for the marked increase in the number of international students, and instrumental in creating and promoting the different student groups. He said, 'Henk will remain involved in the role of ambassador with our international agenda.'

Following the opening address by Flierman, Dr. Martien Molenaar, the rector of ITC took to the floor. His lecture on development and capacity focused on the need for the integration of knowledge. He said, 'International agendas should cut through cultures, religions, everything. Worldwide we need to be on the same level of understanding in order to address global issues.' He went on to explain that ITC, through earth observation and geo-information science, contributes to capacity building in less developed countries. 'We



Rector Henk Zijm (center) in conversation with students at international lunch following the symposium held in his honor, last Friday, at the Vrijhof Cultural Centre. Photos: Gijns van Ouwkerker

not only need to deal with the huge mass of accumulated data, we also need to address issues of biodiversity, water access, climate change, governmental processes, and we need to use our information responsibly.' According to Molenaar, the rapid advancement of technology has forced organizations to shrink their technical horizons from 25 years to five, thereby encouraging new business strategies. 'Where in the past

organizations had the whole process in-house, we now have distributed product and service supply chains. This means co-operating with partners abroad. Technical education should have an international outlook. We need to facilitate information exchange not only at an academic level, but also at a business and human level.' During the panel discussion led by Tom Mulder, head of policy staff at the UT, Zijm discus-

sed the importance of unity. 'Learning and working together helps to build bridges, to overcome differences in opinion, to lead to mutual understanding. Even when we are facing problems, like what has happened in India, we should always keep the door open.' He went on to talk about the minority of female students applying to study technical disciplines in the Netherlands. 'We need people, particularly in technical scien-



Panel discussion opens dialogue on internationalization (left to right): Dr. Martien Molenaar (rector of ITC), Dr. Henk Zijm (rector of UT), Elske Olthof and Pramod Agrawal.



Panelists at symposium (left to right): Mingliang Jin, Dr. Martien Molenaar (rector of ITC), Dr. Henk Zijm (rector of UT) and Elske Olthof.



Tom Mulder, head of policy staff at the UT, presented Henk Zijm a world map. He will step down as rector by the end of year.



Members of the Persatuan Pelajar Indonesia Enschede (PPIE) Dance Club

Breaking through cultural barriers

Two Dutch students, Michael Stekkinger and Eske Olthof, offered their reactions about the topic of internationalization at the close of the symposium. In an interview, the students shared their opinions on internationalization at the UT. Here are excerpts from the interviews.

'It's not a big deal'

Michael Stekkinger, a native of The Hague, holds the position of vice chairman on the University Council and studies psychology. Part of his role in the council concentrates on examining internationalization policies and practices at the university.

'The symposium topic is very interesting, especially with the merger of the ITC as our sixth faculty and the whole goal of the university to become more international as a community and as a place for higher education. People kept saying that English was the language for communication in education. Personally, for me it's not a big deal. I'm very internationally minded. Here in Holland, you get a nice, safe view and you can speak Dutch. Everything is in Dutch. The only thing you need to do is maybe read English books and make an exam that ninety percent of the time is in Dutch. It's all very safe and very natural, but what people kept saying today is that the whole international market, the rest of

the world, where indeed most students will get their jobs in the future is dominated by the English language.'

Mixing cultures at introduction week

Elske Olthof is a master's student in Civil Engineering and former president of the Erasmus Student Network (ESN), a non-profit international student organization, which aims to foster student mobility in Higher Education under the principle of 'Students Helping Students.'

'I think, indeed, what everyone at the symposium was saying is that everything needs to be in English so that even Dutch students are used to speaking in English because if they are more familiar with it then it is easier for them to communicate with the international students. It should be in the introduction week where you mix the groups, and the Dutch students are aware this is an international campus, and we have to speak English here and why not start now. The introduction is really divided into separate groups: the Dutch side and the English side. If you try to mix these groups then you might have success. There are some small efforts that are showing success like Dine with the Dutch and the language project, where Dutch students are mixed with international students, but these are still quite small.'

Chinese students from applying to study at the UT. There was however, support among foreign students to preserve the Dutch language and repeated requests for more courses. One professor also argued that the UT was educating students for a global environment where the common business language is English.

In his closing, Zijm said he would continue to encourage the merging of scholarships and support internationalization with the role models provided by international academic staff. He said, 'The things I've experienced have been a kind of

free gift. Despite all our differences, people are more or less the same. It is in the best interest of the world, and certainly the Netherlands to become as international as possible. The centers of power are changing. We need alliances with countries that come to the stage. If we want to be a part of that we need to act.' The symposium closed with a performance by the Persatuan Pelajar Indonesia Enschede (PPIE) Dance Club. Zijm hangs up his hat as Rector Magnificus on the last day of 2008.

Audrey Rhodes



Members of the Persatuan Pelajar Indonesia Enschede (PPIE) Dance Club captured the attention of their audience in a performance at the symposium in honor of Rector Henk Zijm on November 28 in the Vrijhof Cultural Centre.

FLOOR WOLBERS

PhD-Award voor chip kankeronderzoek

Floor Wolbers, postdoc in de BIOS Lab-on-a-Chip Group van hoogleraar Albert van den Berg, kreeg tijdens de diesviering de Overijssel PhD Award uitgereikt voor het beste proefschrift van een UT-promovendus. In juni 2007 promoveerde ze op een chip die het effect van medicijnen op borstkankercellen test. 'Het is een heel simpel ontwerp waarvan ik hoop dat het een doorbraak betekent in het kankeronderzoek.'

PAUL DE KUYPER



Floor Wolbers. Foto: Arjan Reef.

De chip van Wolbers heeft als grote voordeel dat je vóór een chemokuurbehandeling op een kleine selectie cellen kunt testen welke medicijn bij de betreffende kankerpatiënt zal aanslaan. 'Nu wordt, na de diagnose borstkanker, de tumor bekeken en bepaald welke therapie wordt ingezet. Na een paar weken weet je dan of het aanslaat. Maar als dat niet het geval is, heeft het genezingsproces stil gelegen en is het ziektebeeld misschien zelfs verslechterd', legt de onderzoekster uit. Het is natuurlijk voor de patiënt veel beter als vooraf bepaald kan worden of een theorie zal aanslaan of niet. Bijkomend voordeel is dat het ook voor flinke kostenbesparing zorgt. Een chemokuur van een aantal weken die niets uithaalt, is weggegooid geld. De chip die Wolbers ontwikkelde is goedkoop en kan gemakkelijk in massaproductie gemaakt worden. 'Omdat je met lichaams-

cellen werkt, kun je de chip maar voor een patiënt gebruiken', aldus de postdoc. Met een zogenaamde biopsienaald worden zo'n honderd tumorcellen uit het lichaam in de 'kamer' van de chip gebracht. Die cellen moeten zich eerst aan het oppervlak hechten, waarna het medicijn wordt toegevoegd. Met een microscoop kijk je vervolgens hoe de tumorcellen reageren en of het medicijn het gewenste effect heeft.

'We staan nu op het punt dat we het willen toepassen in een klinische situatie', schetst Wolbers de voortgang van haar onderzoek waar ze nu als postdoc een vervolg aan geeft. 'We hebben de tests gedaan met cellijnen uit databanken, maar nog niet met cellen van patiënten uit de kliniek. Die stap willen we nu maken. Daarvoor moet de chip geoptimaliseerd worden.' Zo heeft de chip nu slechts één kamer, een uitbreiding

naar meer kamers betekent dat van meerdere medicijnen tegelijk de effecten getest kunnen worden. Verder moet er nog een concentratiegenerator worden ontworpen zodat de tumorcellen ook met verschillende medicijnconcentraties in contact komen. 'Bovendien willen we overstappen op elektrische metingen', vult Wolbers aan. 'Nu nog bekijken we alles onder de microscoop, maar het zou in een klini-

sche omgeving beter zijn als je op een display ziet wat een medicijn doet.'

De Overijssel PhD-Award, vijfduizend euro vrij te besteden, vormt een aanmoediging voor Wolbers, die een wetenschappelijke carrière ambieert. 'Ik vind het onderzoek gewoon hartstikke leuk, vooral ook omdat het nu richting de kliniek gaat. Ik hoop natuurlijk dat het een doorbraak wordt in het kankeronderzoek.'

ADVERTENTIE

Important information WLAN@UT users

One of the ICT services at the UT for students, employees and guests is the Wireless network WLAN@UT: the UT campus is one big "hotspot". Throughout the campus it is possible to connect to WLAN@UT with your laptop and other mobile devices (smartphones, PDA's).

For secure access to WLAN@UT we use a so called "certificate". The validity of this certificate will expire soon. To guarantee secure access to WLAN@UT, a **once only action** is necessary by **all users of laptops and other mobile devices**. This has to be done before December 8th, 2008.

What do you need to do?

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If no action has been taken?

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Need help?

Please contact the ICTS Service desk, telephone number 5577.

Every certificate has an expiration date. The present certificate expires soon and will be replaced with a new certificate on December 8th, 2008. In the future, this new certificate can be replaced without user intervention.



Foto: Arjan Reef

Professor De Winterprijs

De professor De Winterprijs voor de beste publicatie van een vrouwelijke UT-onderzoeker ging dit jaar naar Mariëlle Stoelinga van de vakgroep Formal Methods & Tools. Haar artikel *A testing scenario for probabilistic processes* over een wiskundige theorie om softwaresystemen te testen, werd in december 2007 gepubliceerd in *Journal of the ACM*, het meest gerenommeerde internationale tijdschrift voor de fundamentele informatica. De De Winterprijs bestaat uit een bedrag van 2500 euro.