School of Architecture and Design

Bachelor Degree Program in Fine and Applied Arts

The School of Architecture and Design offers a new degree program, Bachelor of Fine and Applied Arts (BFA), as follows:
- BFA in Interior Design (4-year program);
- BFA in Product Design (4-year program).
Classes start in June 2011. A poster in pdf format is available for download at:
http://www.arch.au.edu/POSTER.pdf.

AR 5205 Thesis in Architecture

The School of Architecture and Design held the final presentations of AR 5205 Thesis in Architecture on Saturday, 26 March 2011.

IN 5205 Thesis in Interior Architecture

The School of Architecture and Design held the final presentations of IN 5205 Thesis in Interior Architecture on Saturday, 5 March 2011.

AR10: Last Orientation 2010

The School of Architecture and Design held a last orientation for its graduates from the Departments of Architecture and Interior Architecture on Wednesday, 16 February 2011, at the Mini Theatre, Montfort del Rosario School of Architecture and Design Building, Suvarnabhumi Campus.

The President of Assumption University, Rev. Bro. Dr. Bancha Saenghiran, honored the event with an opening speech and the last orientation program followed. A guest speaker, Mr. Yodyiam Teptaranon, one of Thailand's best known architects, gave an insightful talk about the professional ethics and practices, and the future global trends and opportunities in pursuing a career in architecture.

Faculty of Biotechnology

FoSTAT- Nestlé Quiz Bowl 2011

A team of four students from the Faculty of Biotechnology participated in the first round of the Academic Quiz Competition FoSTAT - Nestlé Quiz Bowl 2011 organized by the Food Science and Technology Association of Thailand (FoSTAT) at the Bangkok International Trade and Exhibition Centre (BITEC), Bang Na, Bangkok, on Saturday, 12 February 2011, 8:30-12:00 hrs. Competing teams from 60 Thai universities participated in the event.

The team from the Faculty of Biotechnology is among 16 teams which will compete during the final round to be held on Thursday, 16 June 2011.

Faculty of Engineering

Bachelor Degree Program in Aeronautic Engineering

The Faculty of Engineering, in academic collaboration with the Thai Flight Training Academy (TFTA) and the Bangkok Aviation Center (BAC), offers a new degree program, Bachelor of Engineering in Aeronautic Engineering (BE AE) for:
- Multi-Crew Pilots;
- Commercial Pilots;
- Aircraft Maintenance Engineers.
Classes start in June 2011. More information is available at:

Faculty Member Attends the PDCN 2011 Conference

Assoc. Prof. Dr. Gennady Veselovsky presented his paper entitled “On BPC permutations admissibility to variable-stage hybrid optical shuffle-exchange networks” at the 10th IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2011) which was held during 15-17 February 2011 in Innsbruck, Austria. IASTED is the abbreviation of the International Association of Science and Technology for Development. The IASTED Secretariat is located in Calgary, Alberta, Canada.

The conference was devoted to the broad spectrum of items connected with hardware and software of parallel and distributed systems. There were participants from many countries, including those who are involved in design of the currently fastest computers.

Nowadays, a very rapid progress is seen in the field of high-performance computing, or supercomputing. Suffice it to say that for a few recent years the performance of such computers increased from 280 TFLOPS (Blue Gene, USA, 2004) to 2,566 TFLOPS (Tianhe-1A, China, 2010), where 1 TFLOP (teraflop) means one trillion ($10^{12}$) floating-point operations per one second. Despite of so impressive progress in this area, there is demand for more and more faster computers, which is dictated by so called “grand challenges” (climate and environmental problems, synthesis of medications for such dangerous diseases as cancer and AIDS, nuclear physics problems, etc.). The fantastic speed of modern computers is achieved mainly by increasing the number of processing nodes in them, which peaks currently hundreds of thousands. This type of computer architecture is known as “massive parallelism”, and an interconnection network is a key component of it. Rapidly increasing number of nodes in massively parallel computers imposes heavy demands on performance of an interconnection network in use.

Optical multistage interconnection networks are promising choice in such situation because they offer gigabit transmission capacity, very high bandwidth and low error probability. In spite of topological similarity of electronic and optical multistage networks, the latter arise some specific problems which cannot be solved using known results and algorithms for electronic networks. In his paper, Dr. Gennady Veselovsky concentrates on one of such problems, namely, on the path-dependent loss (attenuation of a signal) in optical multistage networks, which is almost directly proportional to the number of stages in the network. His algorithm for determining the minimal number of stages necessary for realizing some regular communication patterns allows the reduction of the path-dependent loss on average and is being much faster than the previously known one.

Faculty Farewell Party

The Faculty of Engineering organized a farewell party on Wednesday evening, 9 February 2011, for two foreign instructors from the Department of Basic Science, Dr. Aung Than and Mr. Kin Sein. Dr. Aung Tan joined Assumption University (AU) in 1990 and was a chemistry instructor for 21 years. Mr. Kin Sein joined AU in 1995 and was a physics instructor for 16 years. The event was attended by Rev. Bro. Dr. Prathip Martin Komolmas, President Emeritus, Dr. Sudhiporn Patumtaewapibul, Dean, Faculty of Engineering, and Asst. Prof. Vichitnarong Buggakupta, Chairperson, Department of Basic Science. Faculty administrators and all senior lecturers from the faculty were invited by the Dean for a farewell dinner at the Chinese restaurant “Royal Kitchen”, Sukhumvit Soi 55 (Thonglor).

In the middle of academic year 2010 there was also a farewell ceremony for Dr. Myo Tint. Dr. Myo Tint joined AU in 1994 and was a physics instructor for 17 years.

Dr. Myo Tint received farewell gifts from Asst. Prof. Vichitnarong Buggakupta and Kyi Kyi Tin.
Assoc. Prof. Dr. Gennady Veselovsky presented his research paper entitled "On BPC permutations admissibility to variable-stage hybrid optical shuffle-exchange networks" at PDCN 2011 during 15-17 February 2011 in Innsbruck, Austria.

Dr. Aung Than and Mr. Kin Sein posed for a memorable photograph with Rev. Bro. Dr. Prathip Martin Komolmas, Dr. Sudhiporn Pattumaewaphiwal, and Asst. Prof. Vichitnarong Buggakupta during the farewell party.

Faculty of Nursing Science

The Nursing Convocation 2010

The Convocation Ceremony was held for the graduate nurses Class 2010 on 10 March 2011, at Salle D’ Expo, Hua Mak Campus. This ceremony was prepared for the graduate nurses after they achieved their nursing competence. The ceremony was composed of an academic address by Asst. Prof. Dr. Nanthaphan Chinlumprasert, Dean of the Faculty of Nursing Science, an inspirational keynote speech by Rev. Bro. Dr. Banca Saenghiran, Rector of Assumption University, and Pledge of Loyalty by the graduate nurses. The round table discussion entitled “How to develop from Novice to Expert?” was shared by the Au Nursing Alumni during the next session. Consequently, the graduate nurses were adorned the black strips on their nursing caps by Asst. Prof. Dr. Nanthaphan Chinlumprasert and given the pins by the faculty members. During this special occasion, there were five graduate nurses who received excellence awards for their outstanding performance.

Asst. Prof. Dr. Nanthaphan Chinlumprasert also delivered the last admonition for all graduate nurses.

Rev. Bro. Dr. Banca Saenghiran, Rector of Assumption University, delivered the keynote speech to the graduate nurses, Class of 2010.

The academic address was delivered by Asst. Prof. Dr. Nanthaphan Chinlumprasert, Dean of Faculty of Nursing Science.
The representatives of the graduate nurses gave the gift of appreciation to the Rector of Assumption University.

The representative of the graduate nurses presented Pledge of Loyalty.

AU Nursing Alumni representatives shared successful experiences in a round table discussion entitled "How to Develop from Novice to Expert?" during the convocation ceremony.

Each graduate nurse receiving an "Excellence Award" got also a bouquet of flowers from Asst. Prof. Dr. Nanthaphan Chilumprasert, Dean of Faculty of Nursing Science.

The Dean of Faculty of Nursing Science adorned black strip on the graduate nurses' caps.

The graduate nurses were given the nursing pins by the Dean and the faculty members.
Visitors from Sweden

The Faculty of Nursing Science had a great pleasure to have two visitors from Sweden during 18-25 February 2011. Prof. Anders Jonsson, a senior lecturer, and Ms. Yvonne Samuelsson, the departmental secretary, School of Health Sciences, University of Borås, visited the Faculty of Nursing Science to discuss future exchange agreements for students and teachers.

Asst. Prof. Dr. Nanthaphan Chinthumprasert, Dean of the Faculty of Nursing Science, and the faculty members welcomed them heartily and showed them both Suvarnabhumi and Hua Mak Campuses of Assumption University. The visitors and the faculty members definitely enjoyed their time together.

Nursing Innovation Day

The Faculty of Nursing Science Nursing organized the Nursing Innovation Day on the theme “Tipping the power scale: It’s time to make the invisible nurses visible” on Friday, 11 February 2011, 08:00-17:00 hrs., at Salle d'Expo, Hua Mak Campus.

It consisted of various activities, for example, nursing seminar, poster presentations, and nursing innovation. The purpose of this project was to contribute the knowledge of health and wellness and the health innovation to the people in the communities.

The nursing seminar entitled “Tipping the power scale: It’s time to make the invisible nurses visible”, was conducted by the senior nursing students in the morning session.

Asst. Prof. Dr. Nanthaphan Chinthumprasert, Dean, Faculty of Nursing Science, and Dr. Kriengsak Charoenwongsak, Fellow at the Harvard Kennedy School, Harvard University, (known has “Dr. Dan can do”) were the honorable guest speakers.

The nursing innovations created by the freshmen were presented in the afternoon session. The junior nursing students also exhibited their research through the poster presentations.

In addition, on Saturday, 12 February 2011, the following events were organized:
- 09:00-16:00 hrs., Health Promotion Exhibition: Nursing Innovations Research Poster Presentation;
- 09:00-18:00 hrs., Aroma Massage Service.
Assistant Professor Dr. Nanthaphan Chinlumprasert, Dr. Kriengsak Chareonwongsak, and the moderator, had various discussions during the nursing seminar on the theme “Tipping the power scale: it’s time to make the invisible nurses visible”.

There were approximately 300 participants during the seminar including faculty members, distinguished guests and nursing students.

The freshmen showed their nursing innovation called “Pregnant musical belt” which could be beneficial for both the pregnant women and their babies.

The junior nursing students were creatively preparing their poster presentations.
**Academic Seminar**

"Chocolate Diet: How a delicious food can be healthy too"

The Faculty of Nursing Science held the nursing seminar entitled "Chocolate Diet: How a delicious food can be healthy too" on Wednesday, 26 January 2011, at Auditorium Hall, Hua Mak Campus.

Professor Dr. Lily Stojanovska, a visiting scholar from Victoria University at Melbourne, Australia, was the guest speaker on this special occasion.

The speaker presented the benefits of dark chocolate, for example, in reducing weight and the risk of heart disease. Since the topic was interesting to many people, therefore, there were more than 250 participants who joined this event.

**Graduate School of Psychology**

**In Memoriam of Dr. Holly Shaw Dugan**

Dr. Holly Shaw Dugan, a full-time lecturer in the Graduate School of Psychology, passed away on Thursday, 28 April 2011. She was 70 years old.

Dr. Holly Shaw Dugan was a clinical psychologist. She held B.S. (Psychology) from John Hopkins University, USA; M.S.W. (Clinical Social Work) from University of Maryland, USA; and Ph.D. (Clinical Psychology) from California Institute of Integral Studies, USA.

She will be remembered as a beloved colleague and teacher who taught psychology to the graduate students and inspired them as a thesis advisor. She was also a member of the Editorial Board of Assumption University Journal of Technology (AU J.T.).

She will truly be missed by all those who knew and loved her. Prayer service was held on Friday, 6 May 2011, 18:30 hrs. at Sala 3, Wat That Thong Temple, Sukhumvit Road, North Phra Khanong, Wattana, Bangkok. Cremation was held on Saturday, 7 May 2011, 10:00 hrs.

**Faculty of Science and Technology**

**Senior Project Exhibition**

The Faculty of Science and Technology (S&T) organized the Senior Project Exhibition for semester 2/2010 on Wednesday, 30 March 2011 at Salle d'Expo, Hua Mak Campus. As shown in the two sample photographs that follow, a Senior Project is presented by a team of two students. Their work is examined by the advisor and two committee members who independently evaluate the students’ performance.
Mr. Papas Watanadejudom and Mr. Surachai Chareonkittipinyo presented their Senior Project entitled "Decoding Acceleration of LDPC Codes for Wireless LAN".

Mr. Natthakorn Thanintorn and Mr. Pornsit Chotmanotum presented their Senior Project entitled "Uniform Encoding and Decoding of Transmultiplexed Images".

**Call for News**

The *AU Tech Note* cordially invites staff and students in the School of Architecture and Design, the Faculty of Biotechnology, the Faculty of Engineering, the Faculty of Nursing, the Graduate School of Psychology, and the Faculty of Science and Technology to contribute articles for publication in the Newsletter.

**What to Contribute?**

An illustrative list of any kind of information you would like to see published in AU Tech Note is given below:

- Personal news (new appointments, promotions, fellowships, awards, travel abroad, etc.)
- Reports of special interest groups, industrial visits, recently launched or concluded projects, open house, field works, etc.
- Reports on recently held workshops, seminars, symposia, conferences, etc. Information about forthcoming activities and events, recent publications, etc.
- Results of recently completed projects, patents, newly released products and formulations, experiments and techniques, etc.

We look forward to receiving your input.