

#### **4 engineering graduate fellows named**

The Graduate Fellowship program at De La Salle University-Manila is a scholarship program under the Office of the Vice President for Academics and Research, which only began last school year 2004 – 2005. It is an opportunity for graduate students who wish to pursue full-time studies in the university either in the MA/MS programs or in the PhD programs. It provides the graduate fellow full financial support in

## Environmental researches get NAST recognition for second straight year

The DLSU College of Engineering is recognized for its research excellence in the area of environmental technology and management with industrial applications. In the past two years, four prominent professors bagged major awards given annually by the National Academy of Science and Technology (NAST). Last July 2005, Dr. Pag-asa Gaspillo, current COE Dean received the Hugh Greenwood for Environmental Science Award for her significant contribution to domestic and industrial water and wastewater treatment. Dr. Joseph Auresenia, an Associate Professor of Chemical Engineering, received this year's Outstanding Scientific Paper award for his work on ultrasonic cleaning machine for a new and very dirt-sensitive plastic product. In 2004, Dr. Raymond Tan, Associate Professor of Chemical Engineering and current Graduate Studies Director and Dr. Alvin Culaba, Professor of Mechanical Engineering and CESDR and Linkage Director, shared the same award for their outstanding work on Life Cycle Assessment (LCA). Dr. Tan, likewise, was 2004 NAST Outstanding Young Scientist (OYS) in Mechanical Engineering and cited in the NAST-Du Pont Talent Search for Young Scientist in the same Awards.

## COE gears up for biomedical engineering research for hospitals

The Biomedical Engineering Program at the College of Engineering, De La Salle University-Manila is offered under the supervision of Manufacturing Engineering and Management Department (MEM) and in partnership with De La Salle - Health Sciences Campus in Dasmariñas Cavite. The program is officially called, Bachelor of Science in Manufacturing Engineering and Management with specialization in Biomedical Engineering (MEM-BME). The MEM-BME program has received financial support from the European Commission through its ASIA Link Programme to strengthen the capability to undertake research and to develop professionals concerned with the application of appropriate technology for the efficient delivery of healthcare services and for the advancement of methods used for diagnosis, therapy and rehabilitation. Dr. Julius B. Maridable, the former dean of the College of Engineering and currently the Vice-President for Academics and Research was very instrumental in establishing the Biomedical Engineering course at DLSU-M and he is also the current Local Project Manager. This project is in partnership with the University of Pisa in Italy, Royal Institute of Technology in Sweden and the University of Indonesia in Jakarta.

Biomedical Engineering experts from these partner-institutions visit DLSU-M and deliver intensive training modules for capacity building to faculty members, practitioners both in private and government aimed at improving their competence in teaching and providing efficient delivery of healthcare services in the country. Professors Mannan Mridha and Gunnar Nihlen from the Royal Institute of Technology (KTH), Sweden conducted the first two biomedical engineering courses at DLSU-Manila last August 2005. The project also seeks to promote the exchange of best practices in biomedical and clinical engineering courses among the partner institutions. In fact, a number of faculty members from the College of Engineering will be sent to Italy and Sweden for short training and international exposure starting in January next year. For more details contact Dr. Nilo T. Bugtai, the Chair of the MEM Department and the Deputy Local Project Manager at local 524-4611 local 244.

## DOE adopts CESDR bioethanol study

The Department of Energy presented the results of the bioethanol study undertaken by CESDR to the various stakeholders such as the transport, fuel, and sugar industry sectors. The study revealed that ethanol derived from sugarcane and molasses are the most viable feedstocks for ethanol production in the Philippines. It further confirms that when blended with gasoline up to 10% (E10), no engine modifications are needed; yet it enhances octane rating and reduces toxic emissions. It also provides superior engine performance by preventing engine deposits. The study suggested that the fuel ethanol supply chain must be optimized in order to maximize the energy independence benefits and foreign currency savings of the program. These measures include the use of large, integrated production facilities with adequate economies of scale; cogeneration facilities and waste reuse or recycle to minimize adverse environmental impacts. CESDR was tapped by the United States Agency for International Development (USAID) to conduct the techno-economic study of ethanol as an alternative fuel as basis for the National Fuel Ethanol Program known also as the Bioethanol Fuel Act of 2005. The research team consisted of Dr. Alvin Culaba (ME), Dr. Raymond Tan (ChE), Joel Tanchuco (Econ.) and Alex Fillone (CE).



## COE Administrators (As of First Term, SY 2005-06)

**Dean:** : Dr. Pag-asa D. Gaspillo

**Vice-Dean:** : Engr. Efren G. de la Cruz

**Director, CESDR and IndustryLinkage** : Dr. Alvin B. Culaba

**Director, Graduate Studies and Research** : Dr. Raymond R. Tan

**Director, Product Dev't. and Innovation** : Dr. Elmer P. Dadios



## DLSU College of Engineering Joins Industry Exhibits

The College of Engineering of DLSU through its Industry Linkage Office had participated in a number of exhibits to promote its curricular and research programs. The exhibits participated include the Semiconductor and Electronics Industry in the Philippines Inc. held at the Philippine International Convention Center (PICC), the National Academy of Science and Technology Annual Scientific Meeting held at the Manila Hotel, Science Week Exhibit organized by DOST and held at the Philippine Trade and Training Center (PTTC) and the Industry Linkage Exhibit held also at PTTC. For more information, the Linkage Office can be contacted at Tel (02) 5244611 loc 217 or Tel/Fax (02) 5240563.



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