



This Department is committed to continuous improvement in Academic Engineering Education, Initial and Continued Professional Development of its Staff, Students and Alumni.

HEADLINES

Welcome

The Department welcomes Dr Thammarat Dounghthip, who has completed a two year Research Associate position at the University of Dayton, Ohio, U.S.A., following on from his Ph.D at the same institution. He specialises in Thermofluids, Computational Fluid Dynamics. He also has a passion for rockets and gas turbines, so watch out for low flying and dangerously fast objects around campus.

International Engineering Education Conferences

Plans are developing for future conferences where this Department will again be represented, and have an input into the theme or agenda of such conferences during their planning stages. Watch this space.

Farewell

Aj. Niphon leaves us to focus on GRE and language studies as part of his application for a Ph.D in the U.S.A. He has been an industrious member of the Dept. for two years, and his contributions at all levels will be missed.

We also say goodbye to Dr Minh who was with us for six months on a consulting basis. He will be returning to A.I.T. to continue his work as a Research Associate.

We all wish them well.



Spotlight

On ...

Pasin Amornprapawat

"Keng"



Since July 2004, I have been working as a maintenance engineer at Fabrinet Co.,Ltd, a manufacturer expertised in fibre optic telecommunication components.

Mostly, my responsibility is to analyse manufacturing processes and products when failure occurs and to improve machine performance. Moreover, I am able to exercise my project management skills by planning and organizing the production line transfer from an Australian customer. Last year I had a chance to visit my customer's facility at Canberra, AUS. During this period, I had to establish a detailed action plan with time lines and ramp up the production to meet the schedule. I also lead a team of technicians, perform technical training and plan the maintenance schedule.

Message from the HOD

For our second newsletter, I would like to congratulate our graduating students who have "weathered the storm" and leave us significantly changed – for the better the staff think! It is hoped that they will remember the

Example student project

Cutting your energy bill

A final year Mechanical Engineering student has recently finished his main project, which started in his 2nd semester of his third year with the background research and project specification. His objective was to reduce the energy bill for a grain drying plant, for his parents business. Results from a 1:5 scale test rig indicate that the energy bill could be reduced by up to 25% under certain operating conditions. This represents a major economic saving, as well as supporting the needs of the global drive towards energy efficiency and sustainability.

The picture on the right shows the test rig he built for the project, which is approximately 2m tall. It was housed on site at the sponsoring company, with the design and build costs accounted for under the overall project budget of 100K Baht. The test rig will remain with the company for continued research and development.



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Thank you to all contributors.

Contributions for the next edition are welcome at any time from staff, students or alumni, and should be emailed to med@asianust.ac.th

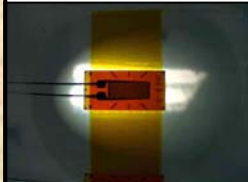


This Department is supported by



Calling all industry

Do you have any special HR needs or opportunities for students and staff to be involved in project work, internships, research or consultancy?





Academic and professional engineering outreach

Dr Paul Bland presented a plenary session paper on an outline for a new Engineering Masters programme at the 2006 International Mechanical Engineering Education Conference in China, March 31st – April 4th, co-organised by the Chinese and American Societies of Mechanical Engineering.

He was part of a group of five representatives from the UK Institution of Mechanical Engineers (IMechE), headed by the 120th President Mr Andrew Ives, Chief Executive Sir Michael Moore, Prof. Joseph McGeough (a member of the IMechE Trustee Board and Professor at the University of Edinburgh), and Prof. Nicholas Bennett (IMechE accreditation and Director, Regional Centre for Manufacturing Industry, and Professor of Engineering Manufacture & Innovation, University of Portsmouth).

Although populated by some biased personnel, the conference confirmed the importance of the role of the Mechanical Engineering community, whilst recognising the need for an evolution of the discipline, and the fact that the Engineering Profession as a whole must work together. There are some tough challenges ahead, at many levels, but typified at the global level with issues of sustainability and what the Profession can or must do to effect change for the better. This issue is moving up the agenda for both industry and academia. The full range of topics covered can be seen by viewing the papers and posters through the ASME website, http://www.asme.org/Education/College/2006_Proceedings.cfm.

The UK IMechE and the UK Institution of Civil Engineers have been in talks regarding a merger for some time. Whilst not obviously directly applicable to Thailand, it is representative of international trends, and indirectly relevant to Thailand due to the Professional Engineering expat base that operates here. There have been a growing number of “noises” amongst other international and local bodies, with an aim of moving towards global recognition and collaboration between many engineering organisations and institutes. This includes the International Network of Engineering Education and Research (iNEER <http://www.ineer.org>) and ASME, who have formed other collaborative links in other S.E. Asia countries to benefit from economies of scale. A local example is the formation of a Thai Society of Mechanical Engineers, due for its first formal meeting in October 2006 at the Mechanical Engineering Network National Conference (ME-NETT). This conference is run within the academic community, but it is expected that TSME will be reaching out to both industrial and academic Mechanical Engineers.



**Corporate
and/or
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and academic
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[iNEER](#)

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[ME-NETT](#)

[SPET](#)

[TSME](#)

Department publications (June 05 – May 06)

International conferences

- Afzulpurkar, N. and Vu Trieu, M., “Development of a Fault Tolerant Control System”, Int. Conference on High Performance Scientific Computing, Hanoi, Vietnam, 6th – 10th March, 2006. [Paper and presentation]
- Bland, P.W., “A Basis for a New Engineering Masters Programme”, Int. Mechanical Engineering Education Conference, Beijing, China, 31st March - 4th April 2006. [Paper and presentation]
- Bland, P.W., “Strengthening a Syllabus Without the Cost of High End Modern Technology or Applications”, Int. Mechanical Engineering Education Conference, Beijing, China, 31st March - 4th April 2006. [Poster]

National conferences

- Bland, P.W. and Pitakthapanaphong, S., “A Discussion on the Role Played by Velocity in Impact Mechanics”, 19th Conference of Mechanical Engineering Network of Thailand, 19-21st October 2005, Phuket, Thailand. [Paper and presentation]
- Bland, P.W. and Pitakthapanaphong, S., “Experimental Observations of Two Extreme Impact Conditions”, 19th Conference of Mechanical Engineering Network of Thailand, 19-21st October 2005, Phuket, Thailand. [Paper and presentation]

Professional institutions

- Bland, P.W., “Blurring the Boundaries Between Industry and Academia”, The Brief, British Chamber of Commerce Thailand, Issue 5, 2005, pp. 48-49. [Article]



Admissions

Join us, and be part of a fast moving and rewarding environment, whilst studying for a Degree that is valued by industry. MED graduates will be equipped with the skills, knowledge, analytical ability and sense of professionalism that can support them for their life-long education, training and career progression.

Contact med@asianust.ac.th for further information.

For further Department information, visit <http://wwwedu.asianust.ac.th/~me/>