



# Emerging Technologies in Research and Development in Manufacturing Processes

08<sup>th</sup> April 2011

09:00 – 13:00

Parsons Building, Trinity College, Dublin 2

Dr. Garret O' Donnell (Chairman)

Research and development in manufacturing processes is critical to retain competitive manufacturing industry in Europe. Trinity College Dublin will host a number of guest speakers from leading European industries including DAIMLER (Germany), Heidelberg Druckmaschinen (Germany) and Lola Composites (UK) as well as speakers from WZL Aachen (Germany), UCD, TCD, and Enterprise Ireland. The speakers will present their progress and experiences in the field of manufacturing process research and development within European funded projects. The presentations will be based on the case studies involved in the ongoing EU FP7 project on Adaptive Control in Metal Cutting ADACOM. Attendees will learn about:

- Increasing the technical intelligence in machines and processes for improved productivity
- The effective transfer of research and development activity into the production environment
- How to achieve leading edge process innovation in manufacturing industries

Time	Duration	Association	Speaker	Topic
<b>8.30</b>	<b>30min</b>	<b>Trinity College</b>		<b>Arrival with coffee followed by registration</b>
9.00	15min	Trinity College	Dr. Garret O' Donnell	Open and Welcome
9.15	15min	UCD	Prof. Dr. Ing Gerald Byrne (Past president CIRP)	CIRP: Process innovation - eco efficiency
9.30	30min	DAIMLER	Dr. Ing Michael Lahres	Pre-development technologies for future energy efficient vehicles
10.00	30min	DAIMLER	Mr. Matthias Claus	Bringing R+D activities into main stream production
<b>10.30</b>	<b>20min</b>	<b>PBSR 2</b>		<b>Coffee</b>
10.50	30min	Heidelberg Druckmaschinen	Dr. Ing Gerrit Eisenblätter	Adaptive control in grinding and milling- process research for benefit of production
11.20	30min	Lola Composites	Mr. Rob Hewison	The machining of composites for high value added components
11.50	30min	WZL RWTH Aachen	Mr. Drazen Veselovac	Monitoring and control of material removal processes
12.20	20min	Enterprise Ireland	Mr. Liam Brown	Opportunities and benefits for Irish companies participating in EU projects
12.40	20min	Trinity College	Dr. Garret O' Donnell	Closing and Discussion
<b>13.00</b>	<b>60min</b>	<b>PBSR 2</b>		<b>Lunch and Networking session</b>

#### Registration:

Please note places are limited to 35 participants.

If you wish to register, please contact Andrew Kelly.

Contact: Andrew Kelly

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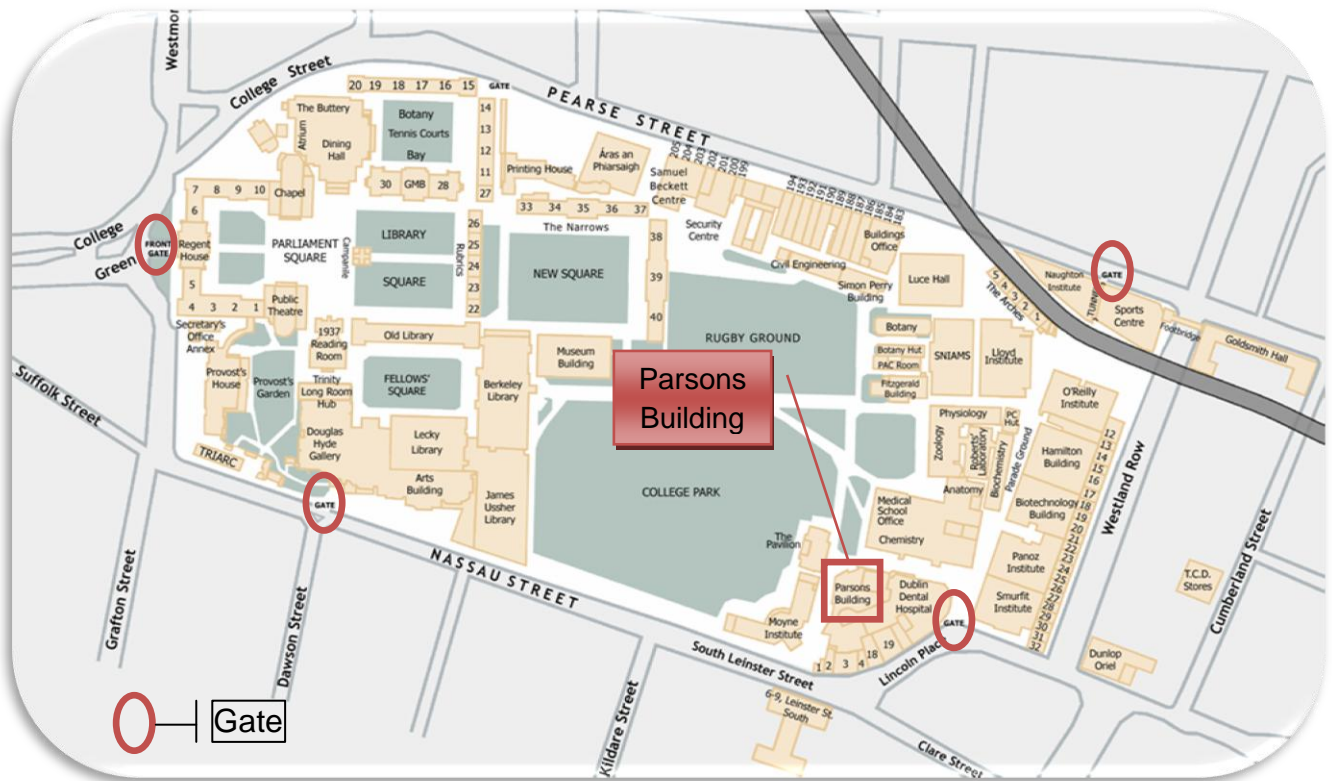
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## Location



## Background to EU FP7 ADACOM Project

ADACOM aims to develop a generic modular adaptive control platform that will allow metal cutting processes to respond to changing circumstances by combining technologically advanced sensor systems, process adaptive control strategies and actuator systems.

A broad range of industry sectors have defined common problems which ADACOM will address. Sensor companies, together with universities as knowledge providers and industry Partners will combine their efforts to develop a robust solution.

The proposed adaptive control platform will directly benefit European metal cutting industries and therefore offer benefits for the wider European industry. With the definition of several case studies from the end-users of the consortium, the adaptive system will target challenges such as strategy adaptation, position adaptation, parameter adaptation and machine state adaptation.



Visit the ADACOM website: <http://www.adacom.eu.com/>

