



**Proceedings of Extended Abstract TEMPLATE**

**TITLE: BRIDGING THE GAP BETWEEN UNDERGRADUATES AND  
INDUSTRY. HOW AN SME IS PLAYING IT'S PART.**

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**1. ABSTRACT**

The field of Chemical Engineering is vast and it's impossible to teach undergraduates everything. Ensuring the the course is up-to-date and relevant to the needs of industry is however something that can be achieved. This requires joint participation between industry and the university.

Seven years ago, the author was approached by the Department of Chemical Engineering, at the University of Bradford, to chair an Industrial Advisory Board. The board is made up of university staff and experienced graduates in Chemical Engineering. The industry members come from a range of businesses, from blue chip to small-to-medium enterprises (SMEs). They advise on the course content and have been involved in the IChemE degree accreditation process.

In the field of heat transfer, the author guest lectures at the end of the programme, to transition from text book to real life equipment. The students are introduced to codes and standard, pitfalls in heat exchanger design, what information is required to ensure a good design, and why different types of heat exchangers are suited for different applications. Additionally, site visits and internships have been arranged, so as to see real equipment being designed and fabricated.

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