



**International Conference  
on Engineering Education**

**International Conference on Engineering Education Proceedings**

Escuela Técnica Superior de Ingeniería del Diseño  
21 - 25 · July 2003 · Valencia



**Escuela Técnica Superior de Ingeniería del Diseño**

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## **Welcome**

**Dr. Justo Nieto, Vice-Chancellor of the Polytechnic University of Valencia  
Rector Magnífico de la Universidad Politécnica de Valencia  
ICEE 2003 Valencia Executive Chair**

Human beings have been innovating since we discovered, precisely through applying the results of innovations, that we had time left over from the task of food gathering, which from the beginnings of our history had required all our energies. One of the activities for which this newly-gained time could be used was, and is, thinking.

Either because, deep down, humans are conservative by nature – risking more with their mouths than with their actions – or because a great deal of time still has to be devoted to satisfying basic needs, we are less innovative than perhaps we could or should be.

If this is true in general, it is more true in universities, even though these are the places where creativity and responsiveness to needs should be paramount. I believe the traditional menu of theory (which is usually undigestible), classical problem-solving (which is usually more theory), and laboratory work should be replaced by a more collaborative and active teaching-learning environment, which fosters discussion, debate and evaluation of ideas and where the individual needs and learning styles of the students are taken into account.

However, when an institution such as the Polytechnic University of Valencia organises a meeting like the present ICEE2003 (which we are sure will be fruitful) under the guiding hand of Dr Enrique Ballester, there are reasons for hope.

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### Welcome

Dr. Enrique Ballester, Dean of School of Design Engineering (ETSID) at UPV  
Director de la Escuela Técnica Superior de Ingeniería del Diseño de la UPV  
ICEE 2003 Valencia Executive Vice-Chair

Dear Friends, first of all I would like to welcome all of you to this Higher Technical School of Design Engineering, which is heir to the old Industrial School of Valencia that has been training engineers in this city now since 1852.

I also wish to thank every staff member at Valencia Polytechnic University who has assisted us in the preparation of this ICEE 2003 Conference, with a special mention to the Rectorate and the members of our School.

Thanks also to Win Aung and INEER members, as well as the International Steering Committee for providing us with invaluable ideas and the necessary support so that the present Conference becomes the actual event we all witness today. I hope that the objectives which we set up when we started working on the preparation of this Conference are successfully met.

We have been working from the School to achieve this and to organize a Conference for all of us to have time for work, for culture, for entertainment and also to speak, exchange ideas and build on the excellent working atmosphere which is at the heart of our network, among representatives from all continents.

Last, but not least, I would also like to thank all the people who offered us the support without which we would not be here now: Luis Sánchez, Ana Gimeno, Pedro Fuentes, Claudio Benavent, Miguel A. Agustín, Rafa Seiz, Susi Torralba, Juan Miguel Martínez, David Perry, Carlos Camiña, Malak Kubessi, Maika Ontiñano, José Marín, Rosa Collado, Teresa Pardo, Gabi Songel, José Armijo and many others. Thank you all for your outstanding work and dedication.

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Congratulations to all of you on your key contribution to the ICEE 2003 Conference. Have a pleasant and productive time!



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## **Introduction**

**Prof. Luis M. Sánchez Ruiz, ICEE 2003 Valencia General Chair  
Universidad Politécnica de Valencia, Spain**

**Dear ICEE 2003 attendees,**

**This is a time to make and meet friends, this is time to learn from each other, this is another ICEE conference. Now at UPV, Universidad Politécnica de Valencia.**

**UPV representatives attended the very first ICEE meeting in Taipei 1994, and I have been personally involved since Chicago 1997. So we have made and met a number of friends for a number of years.**

**It is also time to have fun, fun for enjoying another country and another culture while exchanging ideas and learning from our friends. I hope that this fun will be visible in the delegates participation both in the presentations and in its social part.**

**Our university and the city of Valencia have many interesting things, as well as its surroundings, that are worth while discovering. I do encourage you to do so and get some of its Mediterranean flavour during your stay.**

**We hope ICEE2003 makes us progress and seek to meet again to exchange the ideas we get here by learning from each other.**

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Melvyn Dodridge, UK

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Frode Eika Sandnes  
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