

VII Congreso TAE "Tecnologías Aplicadas a la Enseñanza de la Electrónica – Technologies Applied to Electronics Teaching –"

Madrid, Spain, July 2006

The Origins

In 1992, different initiatives inspired by European projects like CTISS (Computer in Teaching Initiative Support Service) were carried out in several Spanish universities. One of these initiatives, already well consolidated, was TAE (Tecnologías Aplicadas a la Enseñanza de la Electrónica – Technologies Applied to Electronics Teaching).

The First Congress was celebrated in 1994 in Madrid, and since then up till now other congresses have been celebrated every two years. These congresses are oriented to Educators related to the Electrical and Electronics areas. In all these congresses there has been an important participation of companies of this sector. The cities of Madrid, Barcelona, Seville, Las Palmas and Valencia, places in which an important electronic industry and prestigious universities exist, have been the sites of the celebrated congresses to date.

In 1998, during the celebration of the III Congress, the participation was opened to the Latin American countries. This situation has been kept in later congresses. The inclusion of Latin American countries was stimulated by the participation of many universities in a program of the European Commission called Alpha.

Different participations of previous editions of the congress are included in http://www.euitt.upm.es/taee/congresos_tae/congresos_tae.htm

In general, it is possible to highlight that the average participation has been around 180 professors and the number of accepted communications has been around 120. The participation of Latin American countries has been approximately of 15%.

Under the acronym of TAE, not only congresses have been celebrated but other initiatives directed to the same objective have taken place. The creation of a "TAE Resource Centre" In this Centre there are gathered the different didactic resources that have been presented in the TAE Congresses or that have been donated by companies or groups of professors. This is a Centre of creation, application, evaluation and diffusion of resources and experiences on the use of the technologies to traditional or distance education. Its objective is the knowledge sharing and the reuse of the educational resources. Further information is in

http://www.euitt.upm.es/taee/recursos/Centro_Recursos_TAE.htm

Now this site is under remodelling trying to allow a better use of the electronic platforms evolving to a complete knowledge resource centre.

Call for papers

The VII Congress TAE (TAE06) will be celebrated in July 2006 at the Polytechnic University of Madrid. In its organization, as in previous editions, several Spanish and Latin American Universities that are part of the TAE network, and different companies, will collaborate.

It will be similar to previous congresses but it will also try to answer some present questions of great importance. Three main lines of different scopes stand out:

1. The European Space renovation raised by the implantation of the European Space for Higher Education. The Bologna Declaration has created a deep discussion on the approach of the university teaching in all European countries.
2. The renovation of the Spanish university degree titles is being developed now. During 2006, the debate will be focused on the elaboration of proposals coming from the academic world about the structure, rules and minimum contents of the future degrees among which "Electronic Engineering" degree is included.
3. Education using the Internet is undergoing a deep transformation that affects the way in which knowledge is shared. Concepts such as "learning objects" and "digital libraries" offer alternatives that must be analyzed and debated with the purpose of having a more reusable "Resource Centre".

VII TAE Congress will last three days. It will be structured in the following elements:

- Plenary sessions – Round tables.
- Parallel sessions for the presentation of oral papers.
- Parallel sessions for the presentation of posters.
- Distance communication sessions.
- Demonstrations of finished educational products.
- Exhibitions of companies from the Electronics industry.
- Working group sessions.

The main topics of the Congress are the following ones:

- European Space for Higher Education: Methodologies oriented to the learning process. Training in competences. Collaborative work.
- Learning using the Internet: from the TAE Resource Centre to the digital library. The learning objects. The Virtual Laboratories.
- Educational Resources for traditional education: Didactic material. Best practices.

The thematic areas that will be used to organize the collaborations to the congress will be:

- Introduction to the Electronics
- Digital Systems
- Electronic Instrumentation
- Power Electronics
- Technology and Manufacture
- Regulation and Control
- Networks and Systems
- Signals and Communication Systems

The official languages of the congress will be Spanish and English.

TAAE Program Committee

It consists on outstanding teachers and educators (major part of them professors) of the main Spanish Universities and representatives of Portugal and Latin America.

General Chair: Jesus Arriaga García de Andoaín (Polytechnic University of Madrid)

Co-chair: Fernando Pescador del Oso (Polytechnic University of Madrid)

Juan Domingo Aguilar	University of Jaén, Spain
José M ^a Angulo	University of Deusto, Spain
Gerardo Aranguren	University of País Vasco, Spain
Jesús Arriaga	Polytechnic University of Madrid, Spain
Francisco J. Azcondo	University of Cantabria, Spain
Nuria Barniol	Autónoma University of Barcelona, Spain
Eduardo Boemo	Autónoma University of Madrid, Spain
Roberto Capilla	Polytechnic University of Valencia, Spain
Pedro Carrión	University of Castilla La Mancha, Spain
Gonzalo Casaravilla	República University, Uruguay
Manuel Castro	Spanish University for Distance Education, UNED, Madrid, Spain
José I. Escudero	University of Sevilla, Spain
Enrique Mandado	University of Vigo, Spain
Asunción Morales	University of Las Palmas de Gran Canarias, Spain
Lluis Prat	Polytechnic University of Catalunya, Spain
José Miguel Paez	University of Costa Rica, Costa Rica
Fernando Pescador	Polytechnic University of Madrid, Spain
Tomás Pollán	University of Zaragoza, Spain
Reinaldo Vallejos	Technical University of Santa María, Chile
Oscar Andrés Vivas	University of Cauca Popayan, Colombia
Manuela Vieira	Engineering Institute of Lisbon (ISEL), Portugal

The local committee is integrated by different members from the Polytechnic University of Madrid (<http://www.euitt.upm.es/taee/>)

Proposal to the IEEE-ES AdCOM

The organizers assure to match the actions expected for Conference Organizers according to the agreements of technical co-sponsorship (June 3, 2004), with exception of the first one because the organizers of VII Congress TAEF have recently specified some of the aspects of this call and the decision to ask for the "co-sponsorship" has been made in the last meeting of the TAEF Committee, celebrated the last month of September.

This accidental situation would not allow TAEF to benefit of all the potential services offered by IEEE-ES when technical co-sponsorship. In any case:

1. Conference organizers assume all financial responsibility for the TAEF'06. Technical co-sponsorship with TAEF'06 by the IEEE Education Society entails no financial responsibility for the conference by the IEEE Education Society.
2. Conference organizers engage to display the IEEE logo on all publicity, Web sites, correspondence, signage, and publications for the conference. In addition, all publications and publicity related to TAEF'06 will mention explicitly technical co-sponsorship with the IEEE Education Society.
3. During the conference, conference organizers will provide membership application forms for the IEEE Education Society to all attendees, as well as distribute related promotional material provided by the Society. This conference is organized along with the Polytechnic University of Madrid, by the Spanish Chapter of the IEEE-ES. The Conference Program includes promotional activities as the regular meeting of this chapter.
4. Conference organizers will provide a booth or table in a prominent place at the conference to the IEEE Education Society for promotion of the Society's products and programs, such as the IEEE Transactions on Education, the Frontiers in Education Conference, and other conferences identified by the Society.
5. For one representative of the IEEE Education Society, the chief liaison, the conference organizers (a) waive the conference registration fee, and (b) provide a room in the conference hotel during the conference.
6. The conference organizers make every effort to contribute 5% of gross receipts from registration fees for the conference to the IEEE Education Society to offset costs for activities by the Society related to the conference.
7. The conference organizers will constitute a special committee to have the two best papers identified and selected from the conference for revision and submission, by the author(s), to the IEEE Transactions on Education for review and possible publication.
8. The conference organizers, in cooperation with the chief liaison from the IEEE Education Society, will present a timely evaluation of the conference to the Administrative Committee of the IEEE Education Society.
9. The conference organizers provide the IEEE Education Society a list (preferably in electronic format) of conference participants (presenters, exhibitors, attendees, etc.), with the affiliation, membership status in both the IEEE and the Education Society, and e-mail addresses for each one.

Besides the organizers would like to publish the proceedings of the conference by the IEEE.

By this reason, we formally ask for IEEE-ES the recognition of “Technical Co-Sponsorship” for TAAE’06 as soon as possible.

Jesús Arriaga
General Chairman

Fernando Pescador
Co-chairman



Actions Expected of the IEEE Education Society

1. The IEEE Education Society publicizes the conference, at least once, in its newsletter, which goes not only to all members of the Society, but also to all heads or chairs of EE and ECE departments within the United States and to all members of the ECE Division of the American Society for Engineering Education.
2. The IEEE Education Society certifies technical co-sponsorship with the conference so that the conference may contract for any subset of conference management services (including online registration, etc.) available from IEEE Conference Services.
3. The IEEE Education Society identifies a representative, normally an officer or member of the Administrative Committee, to serve as chief liaison between the conference and the Society. This person provides an assessment report of the conference to the Administrative Committee of the Society.
4. The IEEE Education Society supports conference organizers by identifying qualified persons to serve on the conference program committee.
5. The IEEE Education Society makes every effort to allocate funds for round-trip coach airfare for one representative of the IEEE Education Society to attend the conference as chief liaison.