

**27th Annual
IEEE Power Electronics
Specialists Conference**

pesc96

**RECORD
VOLUME I**

**June 23-27, 1996
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IEEE POWER ELECTRONICS SOCIETY

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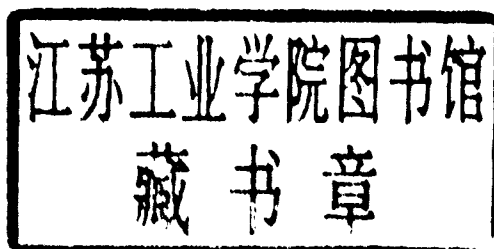
RECORD

VOLUME I

**27th Annual
IEEE Power Electronics
Specialists Conference**

Formerly
POWER CONDITIONING SPECIALISTS CONFERENCE 1970-1971
POWER PROCESSING AND ELECTRONIC SPECIALISTS CONFERENCE 1972

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WELCOME TO PESC'96
IN THE
NORTHERN ITALY



Those of you who like exploring the past, and nevertheless are chiefly concerned with the future and innovation, will particularly appreciate the location of the 27th Power Electronics Specialists Conference.

Northern Italy boasts innumerable evidence of important figures in the fields of art, history and science. It was here that the geniuses Leonardo da Vinci, Galileo Galilei and Alessandro Volta found inspiration. The opening of the conference will celebrate the bicentenary of the discovery of the electric cell and will be dedicated to Volta, who was a forerunner of Power Electronics.

PESC'96 is steeped in European tradition and simultaneously maintains a tradition of an intensive technically enriching forum, where scientists and engineers from various universities, industries and research centres gather to present and collate their R&D results and discuss new ideas and concepts.

10 expert chairpersons and more than 200 reviewers, from all over the world, have offered their skills and valuable time to maintain PESC'96's rank as the leading conference in power electronics.

Over 470 digests and abstracts were reviewed and following the Program Committee meeting, held on January 20th, 1996, 312 papers were selected for presentation at the conference; 301 final manuscripts have been submitted and are published in this two volumes of PESC'96 proceedings.

Two papers covering subjects of broad interest have been invited for presentation during the Plenary Session.

A team of specialists will give a tutorial on *Smart Power ICs* in the afternoon of Sunday June 23 and on Tuesday evening panel discussions on "*Teaching curriculum in Power Electronics*", "*Batteries: technology application and care*", and, "*What price EMC: are current and proposed EMC regulations worth their cost?*" have been organised to address issues that should rise interesting debates.

I hope that many of you in attendance will gain an insight into the diversified nature of northern Italian industry. In particular, the small and medium sized industries, which are the main economic strength of the country, may offer something interesting.

Industrial tours have been scheduled for the day after the end of conference to visit the Milan factories of SGS Thomson and Ansaldo.

The Conference Hotel is located on the shores of Lake Maggiore, famous for its castles, monuments and especially for its three islands which are considered to be authentic jewels set in a mosaic landscape.

The accompanying guest will have good choice of tour itineraries.

On behalf of the PESC'96 organising committee, I wish to express my appreciation to the members of the programme committee for their outstanding job. It is with great pleasure that I extend a welcome to all of you attending PESC'96.

001547



Piero G. Maranesi
Università degli Studi di Milano
PESC'96 Conference Chair

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TUTORIALS

Smart Power Devices: Technology overview, design methodology and packages

B. Murari, C. Diazzi, D. Rossi, *SGS-Thomson*

EVENING RAP SESSIONS

Topic 1 : *Teaching Curriculum in Power Electronics*

Topic 2 : *Batteries - Technology, Application and care*

Topic 3 : *What price EMC - Are current and proposed EMC regulations worth their cost?*

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