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Welcome from the Conference Chair

On behalf of the Conference Committee, I would like to welcome you to the 1994 Power Electronics Specialist Conference. We are extremely pleased that the IEEE Power Electronics Society has given us the responsibility of hosting this year's meeting in Taipei, Taiwan. The technical sessions will be held at the Taipei International Convention Center. This is a modern building with excellent facilities. The Conference Banquet will be held there too.

Power Electronics is a rapidly expanding discipline, which will certainly have a major role in the development of future technology. At this conference, scholars and experts throughout the world will present their current research work. Perhaps equally important, it will give us a forum to discuss new ideas, and to seek new opportunities. Even though the history of Power Electronics in Taiwan is relatively brief, we are facing a very challenging future. The industry today has products ranging from special purpose power supplies to variable speed drive units. New applications in transportation, energy management, and aerospace will certainly become more active in coming years. I hope this Conference will also give our participants a chance to exchange information with the local industry.

Taipei is a city with many charms. There are a large number of fine and inexpensive restaurants and small shops within walking distance of the Convention Center. We have also organized a few tours to the local industry and an afternoon visit to the National Palace Museum. If you have a day extra before or after the Conference, I would like to urge you to take a side scenic trip outside the Taipei City area. We shall be happy to assist you with your arrangement.

To prepare for a big meeting such as the PESC'94 requires the devotion of many individuals. May I also take this opportunity to express my personal gratitude to the members of the Conference Committee and to all who have helped.



T. C. Wang, PESC 1994 Conference Chair
National Tsing Hua University

Welcome from the Technical Program Chair

Dear friends of Power Electronics: Welcome to PESC'94 in Taiwan. The Program Committee has worked very hard to put together this year's program which consists of 211 papers selected out of 359 digests from 25 nations. This year we have 30 technical sessions dealing with 13 major topics. The program demonstrates the intercontinental and international nature of our conference, since many of the authors come from all over the world. We anticipate that the high standard of the PESC will continue once again this year.

The conference begins with two tutorials on Monday the 20th. The topics will be "Recent Advances in Inverters for Drives Application" and "Soft Switching PWM Converter and Inverter". The Plenary Session will be held on Tuesday morning and it will be followed by 30 technical sessions Tuesday afternoon through Friday afternoon.

Also, we have three Rap Sessions planned for Wednesday evening. They are (i) the Electric Vehicle, (ii) Electronic Ballast, and (iii) Computer Simulation of Power Electronics. All of these are timely topics and your attendance is encouraged.

We hope we have planned a good program for you. This is only possible through the efforts of many dedicated individuals who volunteered their time and skills. Most of all, we owe thanks to the authors who have submitted their papers and to their peers who have reviewed them. Their expertise in this endeavor no doubt contributes greatly to the high technical quality of this conference.

Lastly, as the Chinese saying goes, "What a pleasure it is to have friends coming from distant places!" I sincerely hope that you will enjoy this conference.



Sheng-Nian Yeh, PESC 1994 Technical Program Chair
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Hard and Soft Switching Voltage Source Inverters

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University of Wisconsin - Madison

Rik De Doncker

GE Corporate Research & Development Center

Soft-Switching PWM Converters and Inverters

Fred C. Lee and D. Borojovic

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