

# Conference Report

学界情報 国際会議レポート

## The 26th IEEE Annual Applied Power Electronics Conference and Exposition (APEC2011) March 6-10, 2011, Fort Worth, Texas, USA

### 1. Introduction

Fort Worth, Texas had been honored to be the venue of the 26th IEEE APEC 2011, since its first establishment in 1986. Throughout its long history, IEEE APEC has proven as one of the largest exhibition in power electronics related areas. Not only offers theoretical and technical depth, but IEEE APEC also offers industrial and application-based focus. Moreover, two main focuses are strong in this conference, technical discussion and industrial exhibition. The participants also come from either industrial practitioners or university researchers. During 5 days conference and exhibition, the participants were estimated around 2500 people.

Several events were held during 5 days IEEE APEC conference.

### 2. Professional Educational Seminar

Total of 18 educational seminars were given by excellent experts during IEEE APEC 2011. The experts were coming from either university researchers or industrial engineers. Each educational seminar was half-day long and held in 6 parallel sessions. Various topics were presented in depth and details but still open for discussion.

In our opinion, this event was very interesting since it gave new understanding about particular topic although we do not have deep basic knowledge. However, this event was limited by 6 parallel sessions during one and half day conference. Any participant could only join in 3 different topics. It would be better if the educational seminar were held in less parallel sessions and dispersed throughout the conference days, thus every participant may join many sessions.

### 3. Opening Plenary Sessions

Six experts gave a 30 minutes presentation during the half-day opening plenary session. The “past, present, and future” has been chosen as the theme for this opening plenary session. Each presenter gave their future view of their own field of expertise, ranging from converter topology; switching device; energy; power system; and automotive application related.

### 4. Rap Sessions

Rap session is series of moderated debates. In this year, the topics were about job hunting; green and sustainable technology; and ac or dc system.

### 5. Technical Sessions

Total of 217 technical papers were selected from a base of 667 digest submissions (approximately 32.5% acceptance rate). 115 papers were presented in 35 parallel oral sessions and 102 papers were presented in dialogue session. Either oral or dialogue presented paper has been through the same acceptance process.

IEEE APEC technical session also presented so called “Special

Presentation”. In this event, the presenter is selectively invited by the committee and does not need to submit their paper. Total of 61 special presentations were presented in IEEE APEC 2011.

### 6. Exhibition

This event is another unique feature of IEEE APEC 2011. More than 200 exhibitors were open their booth in IEEE APEC 2011. They displayed their latest invention and high-tech product in power electronics industry. This event provided good opportunity to exchange the latest products or ideas from the company to the prospective user. In order to give in-depth discussion, IEEE APEC 2011 also provided a 30 minutes presentation session for the exhibitors. 30 companies took this chance in 6 different sessions.

Several Japanese companies also took part in this exhibition. Those were Fuji Electric, Murata Power, Sumida, TOHO ZINC, Toshiba, and Yokogawa.



Figure 1. Warm discussion during Exhibition event.

### 7. Social Event

Gala dinner was held in the middle of conference days to enhance the friendship among the participants. Fort Worth cuisines were served followed with enjoyable evening entertainment.

IEEE APEC 2011 participants come from 41 countries all over the world; in addition with enormous number of events, sessions, IEEE APEC 2011 in Fort Worth, TX definitely was the largest conference throughout its history. Many valuable discussions and comments were developed during 5 days conference, those will be valuable foundation for the development of power electronics and its applications in the future.

Moreover, this large conference was not only providing technical knowledge but also enhancing friendship among power electronics related researcher, engineer, and students from all over the world.

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