

Components, Packaging, and Manufacturing Technology Society



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President's Column.....



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Greetings!!!

What is in a Name?

In one of my earlier messages to you I mentioned that the name "Packaging Engineer" or "Packaging Scientist" is not always understood outside of our industry. In the semiconductor industry, we are sometimes known as the "backend" signifying that packaging and test are at the backend of semiconductor (IC) manufacturing. Perhaps we can call ourselves "Backend Engineers", or tell our in-laws that we do "backend engineering". We may tell people that we work in the field of CPMT. Somehow it carries an aura of intellectual mystery that the mundane word "packaging" could never match. Try this acronym sometime with your friends. You may gain some new respect.

CPMT is one of the 39 Technical Societies of IEEE, and in "IEEE" we have a name that is widely recognized and respected worldwide. It is up to us to make IEEE/CPMT a readily recognized name in the world.

IEEE/CPMT Community

In CPMT we are a profession of diverse academic disciplines, multiple global industries, and our business spans from major multinational companies to small entrepreneur start-ups. We are a truly multidisciplinary professional society. In our ranks are: electrical engineers, mechanical engineers, manufacturing engineers, chemical engineers, materials scientists and engineers, physicists, chemists, mathematicians and statisticians. While in each discipline we have our own vocabulary and acronyms, scientific values, and way of looking at problems, we do communicate around the same set of professional interests, and share in the same passion for technology and science advancement. We work at the interface of these disciplines. Learning to collaborate with each other greatly adds to the richness, color, and dynamism in our work. Within our membership ranks are some of the best minds in science and technology.

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IEEE CPMT Society Board of Governors (June 3rd, 2006) Meeting Summary

Submitted by Marsha Tickman
Executive Director, IEEE CPMT Society

The IEEE CPMT Society Board of Governors Meeting was held on Saturday, June 3rd, 2006, following the ECTC 2006 conference in San Diego, California. The following paragraphs summarize the highlights of the meeting.

Society President Dr. William Chen called the meeting to order at 8:30 a.m. It was confirmed that a quorum was present. President Chen introduced IEEE Division II Director, Bob Lorenz.

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IEEE-CPMT Society Awards for Year 2007 (Nomination Due Date: January 31, 2007)

Submitted by Dr. Kitty Pearsall
CPMT Society Strategic Awards Director

The CPMT Strategic Awards Director announces the call for nominations for our five, 2007 Society awards. The CPMT Society offers these awards for the purpose of recognizing outstanding service and contributions to furthering the professional purposes of IEEE and CPMT Society.

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IEEE-CPMT Society Awards for Year 2007 (Continued from Page 1)

While a nominee may have a specific award in mind when applying, the Awards and Recognition Committee reserves the right to consider any nomination for awards other than the award suggested when, in its opinion, the support and justification may more appropriately apply to a different CPMT Society award. Winners will be notified by 28 February 2007 and the awards will be presented at the 57th Electronic Components and Technology Conference, May 29- June 1, 2007, in Reno, Nevada, USA.

After reviewing the high level summaries presented below, you will find a list of nomination submission requirements. The awards nomination form can be found on the CPMT Society Home page (www.cpmt.org/awards).

➤ **David Feldman Outstanding Contribution Award:** This award recognizes outstanding contributions to the fields encompassed by the CPMT Society through executive or managerial directions.

Prize: \$2,500 and Certificate

Basis for Judging: Contributions to the organization or enterprises connected with the field, to CPMT Chapter, Section or Board of Governors activities, and to the fields encompassed by the CPMT Society.

Eligibility: Recipient must have been a member of IEEE and CPMT for the past five (5) years, including 2006.

➤ **Outstanding Sustained Technical Contributions Award:** This award recognizes outstanding sustained and continuing contributions to the technology in fields encompassed by the CPMT Society.

Prize: \$2,500 and Certificate

Basis for Judging: Technical contributions must be sustained and continuing over a period of at least five (5) and preferably ten (10) years. One major contribution *will not* qualify. Contributions must be documented by open literature publications such as papers, patents, books and reports (available to the public).

Eligibility: Must have been a member of the IEEE and CPMT Society for the past three (3) years, including 2006.

➤ **Electronics Manufacturing Technology Award:** This award recognizes major contributions to Electronic Manufacturing Technology in fields encompassed by the CPMT Society.

Prize: \$2,500 and Certificate

Basis for Judging: Contributions may include technical development of, or management (directing) of major new electronic manufacturing processes; significantly increasing yield and/or reliability of established manufacturing processes, etc. Work in the management of CPMT conferences or its BoG may be contributory but not sufficient to receive the award.

Eligibility: No need to be a member of IEEE and CPMT Society.

➤ **Exceptional Technical Achievement Award:** This award recognizes an individual, or group of individuals (no more

than three), for exceptional technical achievement in the fields encompassed by the CPMT Society.

Prize: \$2,500 and a Certificate.

Basis for Judging: Technical contributions of the nominee(s) must be such that they are considered to be exceptional, not achieved by most members. A single major contribution *will* qualify for this award. The contribution could be a significant invention, introduction of a significantly new and important technology or product (in which case, the nominee may be a team leader), or significant work that advances the state-of-the-art in CPMT's field of interest. The technical contributions must be documented by open literature publications such as papers, patents, books, and reports (available to the public). Technical recognition and awards from the organization employing the individual as well as awards from other IEEE and non-IEEE technical societies may also be contributory.

Eligibility: Recipient(s) must have been a member of IEEE and CPMT for the past three (3) years, including 2006. There are no requirements for service to the IEEE or CPMT Society.

➤ **Outstanding Young Engineer Award:** This award recognizes outstanding contributions to the fields encompassed by the CPMT Society through invention, technical development, publications, or new product implementation.

Prize: \$1,500 and Certificate plus one year free membership in CPMT with all CPMT Transactions.

Basis for Judging: Technical contributions through patent invention, contributions to technology or product development within the CPMT Field of Interest. May encompass management (directing) of significant new product introduction or implementation of major new electronic manufacturing processes; significantly increasing yield and/or reliability of established manufacturing processes. Contributions to the Society, through the BoG, Conferences, Chapters, etc., will also be considered. Proof of contributions may consist of open literature publications (preferred) such as papers, patents, books, and reports (available to the public). At least three (3) letters from peers and management at the nominee's place of employment attesting to the accomplishment(s) can be accepted in lieu of publications.

Eligibility: Must have been a member of the IEEE and CPMT (member grade or above) for the past three (3) years, including 2006, and must be 35 years of age, or younger, on December 31st, 2006. Please provide Date of Birth (Month/Year) to ensure eligibility.

Guidelines for Nominators:

- Minimum three (3) reference letters must be submitted in support of all nominations. Reference letters can be provided by IEEE/CPMT members and non-members.
- Past recipients of an award are not eligible to receive that same award a second time. For a list of past awardees, see the CPMT Society Home page located at www.cpmt.org/awards.
- An individual may submit only one nomination per award but may submit nominations for more than one award.
- It is the responsibility of the nominator to provide quality documentation to assist the Awards Committee in evaluating the candidate.
- Please send nominations to CPMT Awards Committee Chair by e-mail, fax or mail. If you fax a nomination, please follow-up with an email.

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Member-Get-A-Member Program Gets An Upgrade For 2007

Submitted by Ralph W. Russell, II
IEEE CPMT Society Strategic Director for Membership and
Chapter Development

Beginning in September of this year, the Member-Get-A-Member (MGM) program will undergo several significant enhancements. First, the payout for recruited higher grade members will be raised from the current \$5.00, to \$15.00 per member. Further, recruiters will have the option of using their reward vouchers to pay for IEEE products or services (including their membership renewal), or, if they prefer, they can choose to use the vouchers to have a donation made in their name to the IEEE Foundation.

The MGM program has been one of our more successful recruitment programs. Please spread the word of these important changes and help to make this program even more successful in 2007. Find out more at www.ieee.org/mgm.

To assist members who wish to participate in the program, some tools have been developed. These include a descriptive brochure of the MGM program with recruiting tips, and an IEEE-logo'd business card with space where the recruiter can fill in their name and member number. The brochures for the 2007 program will be available in September, while the business cards are available now. Both can be ordered online at: www.ieee.org/ra/md/mdsupplyform.html.

Please note that the vouchers for the 2006 MGM program, which will be issued during September, will be calculated under the 2006 program rules. No changes have been made to the Student-Get-A-Student (SGS) program.

Chapter News

Region 10 Chapter Activity Round-up
By **Dr. P.B. Parikh**, Region 10 News Coordinator

TAIPEI CHAPTER:

Prof. Lih-Shan Chen- Chairman of Taipei CPMT Chapter has reported the following activities during this quarter.

As reported in our previous issue, CPMT Taipei Chapter co-organized the "2006 International Symposium on Advanced Packaging and Green Packaging Technology", with IMAPS Taiwan Chapter. This four day event was held from June 28th to July 1st, 2006 at the Taipei World Trade Center, Taipei, Taiwan. More than 120 participants took part in this seminar. Besides the technical program, there was an Exhibition for four days of the seminar.

Invited speakers at the seminar included

- i) **Dr. Ho-Ming Tong** - "IC Packaging Trends and Challenges from New Packaging Materials".
- ii) **Dr. Michael Pecht** - "Accelerated Testing; Ways to Understand Reliability Quickly and Accurately".

Dr. William T Chen- President of IEEE CPMT Society and Dr. Ho-Ming Tong - President of Advanced Semiconductor Engineering (ASE) Inc. visited Dr. Shen-Li Fu Chairman of IEEE CPMT Taipei Chapter on 2nd August, 2006 and had discussions on the affairs of the Society.

MALAYSIA CHAPTER

Dr. Ch Chew –Chairman of Malaysia CPMT Chapter, has reported that the chapter activities have picked up and the chapter has become more eminent and diversified with joint efforts from the newly pulled-in committee members from FREESCALE, INTEL and INFINEON.

The following talks have been planned and being conducted during this quarter by the chapter;

- i) "Applications of FEA in Semiconductor packaging design"
- ii) "Analytical tools in Semiconductor Industry".

The executive committee members of the chapter are busy preparing for the International Conference on Electronics and Manufacturing Technology (IEMT 2006 – 8,9,10 Nov) and four informative DLPs. These are to be held for the first time in KL Asia with the support from CPMT SCV, IEEE and various industry sponsors.

Around 78 papers and more than 20 posters have been selected out of 130+ abstracts received till date. In addition to a well organized technical conference as above, the organizers have assured varieties of food, sceneries and cultural shows of Malaysia.

Further information for registration and conference details can be obtained from the link www.ieee.org.my/iemt2006/.

The Chapter Officers and the Committee members for 2006 are

Chair:	Dr. CH Chew, ON Semiconductor
Vice Chair:	Dr. Ishak Abdul Azid, University Science Malaysia
Treasurer:	Azhar Aripin
Committee Members:	Dr. Chee Choong Kooi, Intel Wee Teck Lim, ON Semiconductor Fuaida Harun, Infineon Shutesh Krishnan, ON Semiconductor LC Tan, Freescale

IEEE INDIA COUNCIL CHAPTER

The chapter has launched a well organized membership drive since October 2005 through our contacts with the electronic component industry and the academic institutions. Effective presentations on IEEE CPMT Society activities in India and at global levels were made during the three co-organized events (seminars and conferences) during the year. One more such opportunity will be availed during the forthcoming annual IEEE India Council seminar in December 2006.

Due stress is being placed on increased awareness of the activities of the CPMT society and the need for knowledge sharing on latest technological developments in the areas of electronic component production and electronic equipment manufacturing activities including Surface Mount Technology.