

Pick 'N' Place

◆ Issue Number 54

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Surface Mount 2002 Melbourne Exhibition & Convention Centre October 15-17, 2002

Planning is already underway for Surface Mount 2002 and Austronics in Melbourne in October 2002. If any Member has suggestions about topics and/or speakers please send information to Andrew Pollock at the SMCBA office.

Surface Mount 2001 in Sydney 18-20 September

The Conference was a success despite the inability of three of the speakers being able to leave the United States. Over 170 people attended and all sessions that went ahead received very good feedback.

Presentations by Lee Ritchey - "High Speed PCB and System Design", Dr Bill Messina - "Applying SPC to the SMT Line" and Janos Legrady - "Capillary Action Enhanced Surface Mount Connectors" had to be cancelled. New dates have been worked out with Lee Ritchey (see next column) and Bill Messina has indicated that he should be available early in February 2002.

Gary Ferrari Executive Director IPC Designers Council Returning Late February 2002

Gary Ferrari has accepted the SMCBA's invitation to return to Australia to oversee a Designer Certification Workshop and Examination in Sydney.

A new Instructor candidate for the CID program will take part in the Workshop and if successful it is expected that he will receive approval as an Instructor from the IPC Designers Council.

Thanks to Dr Laura Turbini and Vern Solberg who both arrived in Australia a week prior to the Conference. Arriving early meant that their travel was not effected by the tragic events in the US on September 11.

Our thanks also to all the other presenters and the sponsors - AEMS, Austronics, BOC Gases, Consolidated Alloys, GPC Electronics, HarTec, Setec, Agilent Technologies and Multicore Solders. Without the support of the sponsors we would not be able to bring expert presenters to the Surface Mount Conference.

The "Ed Hale Surface Mount Product Award" was awarded to Tarapath Pty Ltd for the "Optimel Polyamide Low Pressure Molding System".

Lee Ritchey Workshops in Australia, New Zealand & Hong Kong February 25 to March 9 2001

"High Speed PCB and System Design Course"

A must for anyone involved with the design of high speed PCB's.

Over 200 attendees already from throughout Australia and New Zealand.

Sydney - February 25-26, 2002

Adelaide - February 28 & March 1, 2002

Christchurch - March 5-6, 2002

Hong Kong - March 8-9, 2002

**For further details contact Andrew Pollock at
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International Affiliate **SMTA**

Member **IPC** & Licensed Distributor

Administrator Australasian Chapter



IPC Approved Training and Certification Centre

Sad News

Sadly Ed Hale passed away at home on Friday 12 October 2001. A funeral service was held for Ed in Eltham on Wednesday 17 October. Many people from the industry attended the funeral. His contribution to the SMCBA and the industry was a significant one and one that will be missed in the future.

On 2 October Ed was honoured by the SMTA in the United States at the SMTA International Conference in Chicago when he was awarded the "Excellence in Leadership" Award.

Condolences to Kay, Cheryl and Natalie.

Annual General Meeting and Presidents Report

The Annual General Meeting was held in Sydney at Surface Mount 2001 on Thursday 20 October. The President Joe Hernandez presented the following report:

Presidents Report Year 2000 - 2001

Unfortunately the industry experienced another difficult year and international economic issues are likely to continue to cause some hardship. This is a time for the industry to concentrate effort on its strengths and take advantage of the low Australian dollar to export products and services.

The SMCBA has however had a successful year. Membership revenues whilst down slightly over previous years, continue to reach a level that supports the effective operation of the Association and provision of a wide range of services to Members and the electronics industry in this region. New members continue to join the SMCBA replacing those that have been lost due to economic hardship or industry restructuring.

The highlights for the year include another successful round of technical programs, the Surface Mount 2000 Conference in Melbourne in October, specialised workshops in Christchurch and Sydney by John Howard on signal integrity and EMC and the acquisition of IPC licences for the running of IPC instructor training and certification programs.

Three of these highlights deserve special mention:

Surface Mount 2000: - Surface Mount 2000 in Melbourne was a great success with 235 delegates attending over the three days. We were privileged to have Dr Jennie Hwang speak on lead free solder technologies and applications and John Howard presented his two day workshop to 45 people. The Conference returned a modest surplus.

John Howard's EMC Workshop: - After the success of his workshop at SM 2000 John returned in March 2001 and conducted workshops in Christchurch for 45 people and Sydney for 34 people. These workshops were an outstanding success and received excellent reviews from participants.

IPC Training: - The SMCBA was successful in winning Commonwealth Government assistance for the acquisition of licences from the IPC for registered instructor training and certification programs. A grant of \$74,000 was approved in February under the Test-IT program administered by the Department of Communications, Information Technology and the Arts. Licences permitting the SMCBA to offer instructor training and certification for the J-STD-001, IPC-A-610 and IPC-7711 and IPC-7721 programs were approved in May by the IPC and the IPC-A-600 licence will be approved shortly. This means that the SMCBA will soon hold all five IPC training and certification licences. Since acquiring the licences the SMCBA has trained 30 instructors and 52 operators generating income of \$44,730. The majority of this training has occurred overseas in Malaysia and New Zealand. Very large companies like Flextronics and Infineon (a Siemens company) with major operations in Malaysia contracted the SMCBA to conduct IPC instructor training and certification. The SMCBA's Master Instructors Terry Clitheroe of Solder Technologies and Ken Galvin of AEMS Training have both now conducted instructor training programs in Malaysia. This is one of the most significant developments in recent years for the SMCBA.

A review of the Association's Business Plan is underway and its completion will be a priority for the Executive Committee. Current indications are that the strengths of and opportunities for the Association are great enough to ensure its place in the industry in the future.

On behalf of all Members and the Executive Committee I wish to thank everyone that has supported the Association this year. Particular thanks should be recorded for those companies and individuals who have donated their time and resources to the Executive Committee and Australian Electronic Manufacturing Services, Agilent Technologies, BOC Gases, Consolidated Alloys, Dial-Info-Link, HarTec Limited, Hawker Richardson, Morris Circuits, Multicore Solders, Nortel Networks, Precision Circuits, Solectron and AIM Products for their sponsorship of Surface Mount 2000. Without the support of these people and organisations the SMCBA would not be able to provide the level of quality services and programs it does for Members and the electronics industry generally in this region.

Our sponsors for Surface Mount 2001, Australian Electronic Manufacturing Services, Austronics, BOC Gases Australia, Consolidated Alloys, GPC Electronics, Hartec Limited, Setec, Multicore and Agilent also deserve our sincere thanks for supporting the Conference this year.

I also wish to record our thanks to the Minister and Department of Communications, Information Technology and the Arts, the Test-IT Program and its staff and the Program Evaluation Committee for the confidence they have demonstrated in the ability of the SMCBA to be able to establish the infrastructure needed to successfully deliver IPC training and certification programs in this region.

My thanks, the Executive Committees thanks and the Members thanks also goes to Andrew Pollock and Dianne Hunt for their untiring efforts in managing the operation and activities of the Association. The SMCBA is in a healthy position to be able to continue to serve its Members and the industry in the future.

Finally I wish to pay tribute to Ed Hale who retired from the Executive Committee in April this year due to ill health. Ed was a founding member of the SMCBA in 1988 and served on the Executive Committee continuously since that time. He established the SMCBA's linkage with the SMTA in the US and was instrumental in securing the services of many overseas experts who presented at the Surface Mount Conference and other programs organised and conducted by the Association. In recognition of Ed's contribution to the industry the Executive Committee renamed the Association's award

that was given at Austronics last night as the "Ed Hale Surface Mount Product" Award. The award went to Tarapath Pty Ltd for the "Optimel Polyamide Low Pressure Molding System".

Ed was also recently honoured by the SMTA in the United States when he was selected to receive the "Excellence in Leadership" award.

I am retiring as President of the SMCBA as business commitments are demanding a great deal of my time. I have enjoyed my two terms as President of the SMCBA and wish who ever replaces me all the very best. The SMCBA has established itself as an important part of the electronics industry and will continue to play a vital role in supporting the industry at a technical level.

Joe Hernandez
President SMCBA

IPC Standards Update

Published/Pending ANSI Approval

IPC-7530 - Guidelines for Temperature Profiling for Mass Soldering (Wave and Reflow) Processes

Interim Final Stage

J-STD-004A - Requirements for Soldering Fluxes

IPC-HDBK-005 - Soldering Pastes Handbook.

IPC-7071 - General Requirements for Component Mounting.

IPC-7072 - Sectional Requirements for Through Hole Component Mounting.

IPC-7073 - Sectional Requirements for Standard Surface Mount Technology Component Mounting.

Working Draft Stage

IPC-A-610D - Acceptability of Electronic Assemblies.

IPC-2226 - Design Standard for High Density Array or Peripheral Leaded Component Mounting Structures.

IPC-2251 - Design Guidelines for Electronic Packaging Utilizing High Speed techniques.

IPC-9192 - Implementation of Statistical Process Control Applied to Printed Board Interconnection Base Materials.

IPC Training and Certification

IPC Training and Certification Licences for the J-STD 001, IPC-A-610 & IPC-7711/7721 were issued to the SMCBA in May 2001. Since that time the Association has conducted a number of instructor courses in New Zealand, Malaysia and Australia. Forty-one (41) instructors have now been trained and registered with the IPC - twenty-seven (27) in the IPC-A-610, two (2) to date in the J-STD-001 and twelve (12) have been registered in the IPC-7711/7721.

In addition, Association organised programs for operators and workers have resulted in the training of fifty-seven (57) people.

The SMCBA has also obtained an IPC licence to conduct IPC Instructor/Inspector training to the IPC-A-600 Acceptability of Printed Boards.

Pacific 2002 International Maritime and Naval Exposition

Sydney

29 January - 1 February, 2002

The SMCBA has been invited to explore the possibility of conducting conference/workshop activities as a part of this Exposition in Sydney at Darling Harbour in January/February 2002. Pacific 2002 is the largest exposition for the Maritime and Naval industries in Australia. Any Member whose products and services support defence and maritime industries may wish to consider participating. For more details contact Mac McKenzie at the Aerospace Maritime and Defence Foundation of Australia Limited on

Tel: (03) 5282 4400 or
email mmckenzie@airshow.net.au

The SMCBA is considering organising and running IPC Instructor courses in conjunction with the exposition. Instructor courses for the IPC-A-610 "Acceptability of Electronic Assemblies", J-STD-001 "Requirements for Soldered Electrical and Electronic Assemblies" and IPC-7711 "Rework of Electronic Assemblies and IPC-7721 Repair and Modification to Printed Boards and Electronic Assemblies" are under consideration. Expressions of interest in any of these courses can be detailed on the attached form and returned to **Andrew Pollock at the SMCBA on Fax: (03) 9568 0622, Int. 61 3 95680622 or Email: pollocka@smcba.asn.au**

Upcoming Programs

- **IPC 7711 & 7721 Instructor Training and Certification** - "Rework of Electronic Assemblies" and "Repair and Modification of Printed Boards and Electronic Assemblies".
Melbourne 19 - 23 November 2001,
Holmesglen Conference Centre
See attached .pdf file
- **IPC 7711 Operator Proficiency Training and Certification** - "Rework of Electronic Assemblies" and "Repair and Modification of Printed Boards and Electronic Assemblies".
Melbourne 19 - 21 November 2001,
Holmesglen Conference Centre
See attached .pdf file
- **IPC 7711 & 7721 Instructor Training** - "Rework of Electronic Assemblies" and "Repair and Modification of Printed Boards and Electronic Assemblies".
Fremantle 17 - 21 December 2001
Challenger TAFE entry off Caesar Street
Beaconsfield, WA. See attached .pdf file.
- **High Speed PCB and System Design** - presented by Lee Ritchey.
Sydney - 25-26 February 2002
Adelaide - 28 February - 1 March 2002
Christchurch NZ - 5-6 March 2002
Hong Kong 8-9 March 2002
See attached .pdf file
- **Applying SPC to the SMT Line** presented by Dr Bill Messina.
February 2002, Sydney, Melbourne
Adelaide and Christchurch NZ.
Further details soon.
- **IPC Designer Certification Workshop and Examination** with Gary Ferrari
Executive Director IPC Designers Council.
Sydney February/March 2002.
Contact Andrew Pollock for details.
- **Pacific 2002 International Maritime and Naval Exposition**, Darling Harbour, Sydney, 29 January to 1 February. IPC Workshops at the Sydney Exhibition and Convention Centre. J-STD-001, IPC 7711 & 7721 and IPC-A-610 workshops are being planned. Further details soon.

PROGRAMS FOR PACIFIC 2002

Darling Harbour, Sydney - January 28 to February 1, 2002

A. Acceptability of Electronic Assemblies – IPC-A-610

- 1) IPC Class A Instructor Training and Certification (5 days)
- 2) Worker (operator) Proficiency (3 days)
- 3) Overview – guidelines to using IPC-A-610 (1 day)

B. Requirements for Soldered Electrical and Electronic Assemblies – ANSI/J-STD-001

- 1) Registered Instructor Training and Certification (5 days)
- 2) Operator Proficiency (5 days)
- 3) Overview – guidelines to using J-STD-001 (1 day)

C. IPC 7711 Rework of Electronic Assemblies and IPC 7721 Repair and Modification of Printed Boards

- 1) Registered Instructor Training and Certification (5 days)
- 2) Operator Proficiency 7711 – 3 days
- 3) Operator Proficiency 7721 – 3 days
- 4) Operator Proficiency in both 7711 and 7721 both – 5 days

D. Rework of Electronic Assemblies using Lead Free Solder – one day (assumes competency in rework procedures)

EXPRESSION OF INTEREST

Name: _____

Company: _____

Address: _____

Phone: _____ Fax: _____

Email: _____

We are interested in receiving information on the following programs:

(please list the programs using the numbering above
eg. Acceptability of Electronic Assemblies - Instructor Training would be A 1
IPC-7711 Rework Operator Proficiency would be C 2)

Enquiries: Andrew Pollock, Executive Officer SMCBA
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Email: pollocka@smcba.asn.au Website: www.smcba.asn.au

Please fax to 03 9568 0622 (International 61 3 9568 0622)