

# Troubleshooting your Surface Mount Assembly Process In House or Offshore

Wednesday 15<sup>th</sup> September 2010

Avocent International, Shannon, Co. Clare Ireland

Workshop starts at 10.00am and finishes at 4.00pm with coffee available from 9.30am. Lunch and refreshments included

Lead-free assembly can contribute to higher defect levels in manufacture; however, this is not necessarily seen at each assembly process. Common process problems today relate to the selection of PCB materials, surface finishes and soldering materials, some are cosmetic others potentially reliability concerns. During this workshop delegates will see problems mostly common in industry, what are the solutions or ways of investigating the root causes. Delegates will be shown how to use free online soldering defect databases to solve process problems 24/7 which is now supported by the IPC. The session will also deal with manufacturing offshore. Delegates can also bring process problems, board assemblies for discussion and hopefully a resolution to their current manufacturing nightmare.

Each delegate will receive a free set of colour wall charts to aid lead-free inspection and the fault identification in manufacture plus a soft copy of the **SMART Group Lead-Free Defect Guide 2**. Delegates will also have the opportunity to win interactive training CD-ROMs on inspection, design and rework for best questions in the session

*SMART Group Ireland have invited Bob Willis to present this workshop*

## The workshop will cover:

9.15am Registration & Coffee

Modern SMT assembly & common opportunities for failure  
Top Ten process failures in lead-free  
Practical failure analysis in manufacture  
Defining process parameters in lead-free  
Key process checks during assembly  
Monitoring contract assembly process  
Solving defects 24 hours a day

4.00pm Questions & Answers  
Optional plant tour after the seminar

**Special feature of this event is MSD  
(Moisture Sensitive Devices) what is  
the problem, how to overcome with  
PCBs and components**

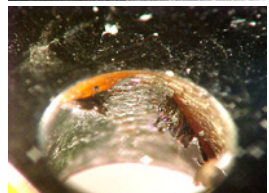
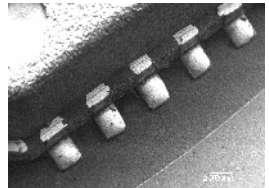
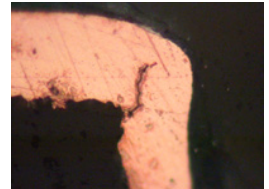
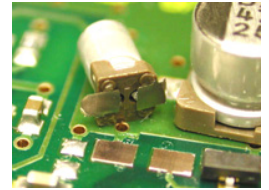
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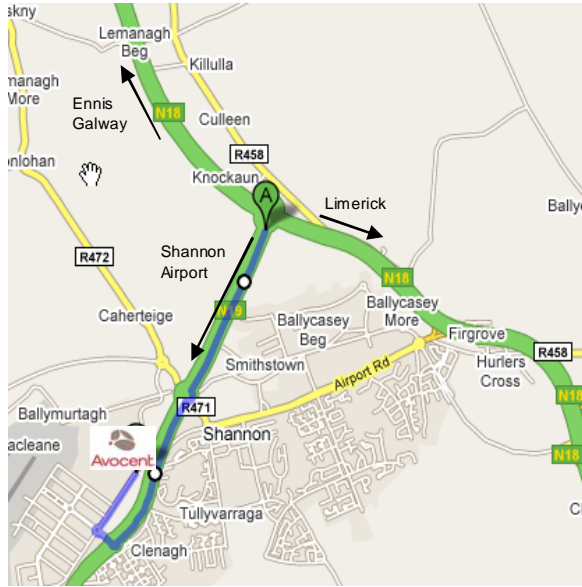
**An update on SMART Group Ireland  
uBGA European Project Plan**

## Who should attend?

Anyone with an interest in solving yield problems, understanding the root cause of failure and finding solutions to poor yields in manufacture. It will also give an incite to equipment suppliers and material manufactures on what may need to be addressed for today's designs. Delegates can bring any defective boards, components or process issues for discussion during the workshop

This event is supported by uBGA European Project FP7-SME-2008-2-243653





## Directions to venue

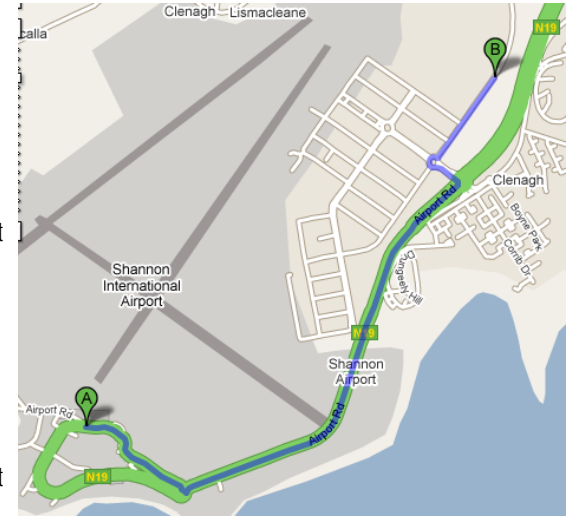
### Avocent International, Shannon, Co. Clare

#### Driving directions from the N18: (Ennis and Limerick)

- Take the exit for Shannon Airport on to the N19
- Follow the N19 for 1.5 Km and at the round about take the 3<sup>rd</sup> exit
- Continue to follow the N19 for a further 1.1km and take the 3<sup>rd</sup> exit and enter the Shannon Freezone Industrial Estate
- At the next roundabout take the 3<sup>rd</sup> exit and continue for 0.8Km, the entrance to Avocent is on your Right.

#### Driving directions from Shannon Airport

- From the Airport head East on N19
- At the roundabout, take the exit for Limerick, Galway, Ennis and stay on N19 for 1.3KM
- At the mini-roundabout take the 2<sup>nd</sup> exit and stay on the N19 for a further 0.9KM.
- At the roundabout, take the 1<sup>st</sup> exit onto Shannon Freezone Industrial Estate.
- At the next roundabout take the 3<sup>rd</sup> exit and continue for 0.8Km, the entrance to Avocent is on your right.



To book your place, fax booking form to SMART Group registration +353 1 8186321 or scan a copy and email to [admin@smartgroupireland.com](mailto:admin@smartgroupireland.com)

Please reserve \_\_\_\_\_ places at the SMART training course on Wednesday 15th September (€125 SMART Group members/€250 Non members)

Additional Offer (SMART Members only): Send two delegates and a third goes free

Name: \_\_\_\_\_ Name/s: \_\_\_\_\_

Company: \_\_\_\_\_ Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_ @ \_\_\_\_\_

Emails: \_\_\_\_\_ @ \_\_\_\_\_

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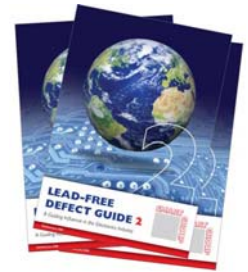
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Signature: \_\_\_\_\_

## Table Top Exhibition Space

If you would like table top space at a SMART Group Ireland event please contact the office to discuss availability



Get your free Lead-Free Defect Guide from SMART Group

Ask SMART Group about on site training workshop just for your team

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