

Lead-Free Electronics Workshop

NEMI Lead-Free Project and APEX 2002 Briefing

Schneider Electric April 2002 Liz Harriman Toxics Use Reduction Institute University of Massachusetts Lowell

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Agenda

- · Coffee and Networking
- Welcome Bruce Boardman, Director of Manufacturing, Schneider Electric
- Introduction Liz Harriman, MA TURI
- NEMI Lead-Free Status Report John Sohn, PhD, NEMI Lead-Free Reliability Team Leader
- Break
- APEX 2002 Briefing and Perspective George Wilkish, Tyco Electronics/M/A-COM
- Brief Status Reports and Announcements
- Wrap Up
- Facility Tour of Schneider Electric

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Brief Status Reports and Announcements

- Massachusetts Lead-Free Electronics Research Consortium
 - UMass Lowell, BTU International, M/A-COM/Tyco, Raytheon, Texas Instruments, Schneider Electric, Sanmina, MultiCore Solder
 - Previous reports available: www.turi.org
- EPA Toxics Release Inventory and MA Toxics Use Reduction Act
 - 100 lb. Lead Compounds Reporting Threshold
 - Upcoming reporting workshops

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Lead-Free Electronics Workshop

Hosted by:

Schneider Electric's Industrial Automation Business North Andover, MA

Sponsored by:

The Massachusetts Toxics Use Reduction Institute

University of Massachusetts Lowell and The Massachusetts Lead-Free Research Consortium

Boston Chapter SMTA

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Lead-Free Electronics?

- Why? Global Drivers, Life Cycle Approach, PBT's
 - European WEEE and RoHS pending legislation
 - Japanese corporate goals and marketing
 - Close product and materials loop, make reprocessing and any necessary disposal safer
 - Eliminate use of PBT's where possible
- What? R&D on alternative solders and finishes
 - Local: MA Lead-Free Electronics Research Consortium
 - National: NEMI, IPC, EPA
- How? Supply Chain Collaboration
 - IPC, APEX, NEMI, SMTA, etc.
 - MA Lead-Free Supply Chain Workshops

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Future Activities and Resources

- Future Workshop Topics
 - Tin Whiskers
 - EPA/IPC Alternative Solder Life Cycle Assessment
- Wire and Cable Coating
 - Materials Issues apply to plastics as well
- Resources
 - IPC Lead-Free Listserve -<u>www.leadfree.org</u>
 - Jennie Hwang Book "Environment Friendly Electronics: Lead-Free Technology" available for loan from TURI
 - TURI web site and Library

