



iNEMI

International Electronics Manufacturing Initiative

Introduction / Agenda

*Bob Pfahl, iNEMI
Gaylord Hotel and
Convention Center
Orlando, Florida
October 12, 2007*

Advancing manufacturing technology

iNEMI Technical Committee/PEG Chair Emulator Kick-off

Friday, October 12

TIME:	TOPIC:	DISCUSSION LEADER:
8:00 AM	Introduction and Review of Agenda:	Bob Pfahl
8:10 AM	2006 PEG Review Introduction	Chuck Richardson
8:20 AM	Automotive PEG Review Discussion*	Spall / Kuhlman
8:55 AM	Office PEG Review Discussion	Dale Becker / Aghazadeh
9:30 AM	Break	
9:40 AM	Aerospace/Defense PEG Review Discussion	Chuck / Ballard
10:15 AM	Network, Datacom, Telecom PEG Review	John Duffy / Guth
10:50 AM	Medical PEG Review Discussion	Primavera / Barthel
11:25 AM	Consumer PEG Review Discussion	Noe/ Cipielewski
12:00 PM	Lunch / ITRS/iNEMI Coordination	Juan-Antonio Carballo

*Each PEG presentation will consist of a 20 minute presentation by the PEG Chair followed by a 15 minute discussion led by the discussion leader. The assigned TC discussion leader should review the PEG's material and presentation prior to the meeting.



inEMI

International Electronics Manufacturing Initiative

2008-9 T.C./ PEG Review Introduction

*Chuck Richardson
SMTAI, Orlando, FL
10/12/07*

Advancing manufacturing technology

2008-9 iNEMI Roadmap Goals

- **Maintain/expand strong linkages with other technology roadmaps**
- **Strengthen Product Emulator value:**
 - Utilize TWG Chair input on Key Attribute Spreadsheet formats and make needed changes prior to PEG Kick-off
 - Expand PEG participation utilizing T.C. input
 - Initiate PEG Kickoff at SMTAI in October with 6 PEG Chairs
 - Complete Emulator Spreadsheets by N.A. TWG kickoff
- **Establish/Strengthen linkages with European and Asian organizations.**
- **Expand emphasis on disruptive events (business and technical)**
- **Expand emphasis on prioritizing technical and market gaps and needs throughout roadmap**
- **Improve the “Executive Summaries” in individual chapters by highlighting the key points from the chapter**
- **New Roadmap on Solid State Illumination**
- **Link with VDMA on Organic Electronics**

2008-9 Product Emulator Groups

Product Emulator	Chair	PEG Participants
Automotive Products	Jim Spall, Delphi	Delphi, Bosch, Continental
Consumer / Portable Products	Susan Noe, 3M	3M, Nokia, Motorola
Defense/Aerospace Products	Denny Fritz, SAIC? William Murphy, Lockheed Martin	Lockheed Martin, Boeing, Rockwell, Raytheon, BAE
Medical Products	Anthony Primavera, Boston Scientific	Intel, Boston Scientific
Office/Large Business System Products	TBD TBD	Intel, IBM, HP
Telecom/Datacom Products	John Duffy, Cisco	Alcatel-Lucent, Nortel, Huawei

2008-9 Product Emulator Descriptions

Emulators	Characteristics
Office Systems / Large Business Systems	Products which seek maximum performance from a few thousand dollar cost limit to literally no cost limit
Telecom/Datacom	Products that serve the networking, datacom and telecom markets and cover a wide range of cost and performance targets
Portable / Consumer	High volume Consumer Products for which cost is the primary driver including Hand held, battery-powered products driven by size and weight reduction
Specialty Emulators	Defined by Operating Environment
Automotive	Products which must operate in an automotive environment
Defense and Aerospace	Products which must operate in extreme environments
Medical Products	Products which must operate within a high reliability environment

2009 Roadmap Schedule

- **3Q2007: Recruit Product Sector Champions, teams and refine data charts/Begin 2009 Roadmap Newsletter & send 2007 PEG chapters 8/1/07**
- **3/4Q07: Product Sector Champions Develop Emulators**
 - September 13, 2007 – Teleconference with P.E. Group Chairs
 - September 25, 2007 at IPC Midwest for TWG/PEG Chairs (key attributes)
 - October 11,12, 2007 - Roadmap PEG Kick-off with PEG/TWG/TC at SMTAI
 - November 14, 2007 – Roadmap kick-off Europe at Productronica
 - December 17, 2007 - Teleconference with TC on PEG Emulator review
- **2007 “Word” chapter, format, Exec. Summary emailed to each TWG chair (Word 2003) 1/4/2008**
- **Organizing Teleconference with TWG Chairs 1/11/2008: (offer TWG meeting rooms at TWG kick-off)**
- **February 20,21, 2008 PEG Workshop/TWG Kick-off at HP, Santa Clara, CA:**
 - Product Sector Tables Complete – PEG Chapter drafts written
 - Cross cut issues are initially addressed

2009 Roadmap Schedule - Continued

- **April 3, 2008 TC/PEG face to face chapter review meeting at APEX**
- **May 7, 2008 Telecon With TWG Chairs; PEG Preliminary Chapters Due**
- **May 14, 2008 – Open Roadmap Presentation in Herndon, VA**
- **May 15, 2008 – TWG/PEG Cross Cut Meeting, Herndon**
- **June 12, 2008 European Roadmap Workshop – IMAPS UK MicroTech 2008 (Windsor, England)**
- **June 2008 – Asian Roadmap Workshop - China**
- **July 1, 2008 – TWG Drafts Due for TC Review**
- **August 6-7, 2008 – TC Face-to-Face Review with TWG Chairs at Agilent (Liberty Lake, Washington) (Wed-Thur)**
- **September 22, 2008 Final Chapters of Roadmap Due**
- **September 23 - 26, 2008 IPC Midwest Conference Schaumburg,**
 - TC Meeting
 - BoD Meeting
 - Fall Council Meeting
 - Project Meetings
 - Council Review of Key Issues and Preliminary
- **October 31, 2008 – Edit, Prepare Appendix A-D, Executive Summary**
- **November 20, 2008 – Go To “Press”**
- **December 5, 2008 – Ship to Members**
- **April, 2009 – Industry presentation at APEX**

Format for Product Emulator Chapters

- Executive Summary (half page)
- Introduction
- Situation Analysis
 - Benchmark state of **Industry** and Technology
 - Key Drivers: cost, performance, size, **market**
 - Chart 2007 vs. 2009 forecast differences
- Roadmap of Quantified Key Attribute Needs (2009 – 2019)
- Critical (Infrastructure) Issues –
 - Identify Paradigm Shifts
 - Provide Vision of Final Assembly Process
 - Discuss System Test
- Prioritized Technology Requirements and Trends: Research, Development, Implementation
- Contributors

PEG Chair Presentation Format: 20 Minutes

- **Emulator Spreadsheet Presentation**
 - **Suggested Critical New Rows / Columns for 2009**
 - **Identify Needed Descriptions**
 - **Identify Needed Comments**
 - **Identify Changes to Existing Metrics**
 - **Suggested Removal of Existing Rows / Columns**
 - **Summary of Changes to Existing Rows / Columns**

T.C. Emulator Spreadsheet Review, Discussion Format: 15 Minutes

General Areas of Review, Feedback and Discussion:

- **Data / Format Review Summary**
 - **Feedback/Discussion on PEG Suggestions Concerning New Parameters/Metrics/Format**
 - **Any Situation Analysis Feedback**
 - **State of Industry Segment and Technology**
 - **Key Drivers: cost, performance, size, market?**
 - **Any Critical (Infrastructure) Issues Feedback**
 - **Summary of Discussion / Suggested Changes**



www.inemi.org

Email contacts:

Chuck Richardson

chuck.richardson@inemi.org

Bob Pfahl

bob.pfahl@inemi.org



INEMI

Advancing manufacturing technology