



International Electronics Manufacturing Initiative

**NETCOM PEG
breakout group**



***Paul Collander
Productronica***

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- **Identify key European TWG areas**
- **Identify key companies for participation**
- **Identify strategies for European recruitment**

NETCOM =

- **Small Office/Home Equipment: Low-end switches and routers, modems, WLAN cards**
- **Enterprise Equipment: Mid-range switches and routers, PBXs, VOIP phones**
- **Service Provider Equipment: Wireless base stations, central office switches, cable modem termination systems, core routers**

Product lifecycle information management:

- **The service life of Netcom equipment approaches 20 years which is a fairly unique element of high-technology products, and imposes unique requirements on lifecycle management.**

Modeling, Simulation, and Design Tools:

- **New fundamental design tools, addressing integration of physical and electrical design are required.**

Thermal management:

- **System designs are approaching physical cooling limits with air-cooled technologies.**

Environmental Conscious Electronics:

- **A 20 year service lifetime places unique requirements on addressing environmentally conscious electronics.**

Test, Inspection, and Measurement:

- **High data rate / multiplexed systems drive test requirements, methodologies, and processes.**

Packaging:

- **High speed and high power packaging is driven by wireless.**
- **The challenges associated with high-speed data I/O and optical interconnection drives advanced packaging concepts.**

Optoelectronics:

- **The communications industry has been a fundamental driver of the high data rate and long reach optics industry. In the very long term, the need to interconnect chips optically will take over as a driver for this technology.**

Electronic connectors:

- **Next generation high-speed backplanes used in this industry will drive developments in high density, high speed, high channel count, and low cross talk electrical connectors.**

PARADIGM SHIFTS

- **The most profound shift in the Netcom space is the change in the supply chain model, moving from completely vertically integrated companies to companies with a nearly complete horizontal matrix of functional support. This has had a profound impact on how communication solutions are designed, specified, manufactured, tested, deployed, and managed. Transformation is not complete.**

WHAT ARE THE NEW DISRUPTIVE CHANGES APPEARING OR NEEDED ?

- Identify key European TWG areas
- Identify key companies for participation
- Identify strategies for European recruitment

- Identify channels to impact European R&D, business climate and EU programmes

- **Next steps?**

www.inemi.org

Email contacts:

Jim McElroy

jmcelroy@inemi.org

Bob Pfahl

bob.pfahl@inemi.org