

JASTECH EMC CONSULTING LLC

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Jastech Builds Alliance with EMC Test Labs

Over the past 6 months Jastech has been approached by several third party EMC test houses looking to build partnerships.

At the same time several automotive suppliers with EMC facilities have expressed interest in working with Jastech to offer downtime at reduced rates to offset facility and personnel costs.

These opportunities have presented Jastech a unique circumstance that we are

now pleased to offer to Jastech clients. Jastech can now offer EMC Test time at A2LA accredited Facilities with reduced lead times and low hourly rates as a line item service.

Even Jastech clients who are required to use designated OEM approved third party test houses for certification can save substantial money by quoting Engineering Development (ED) Testing through Jastech.

Additionally, Jastech is now able to announce turn-key EMC services for clients that don't have EMC groups. Clients can now outsource EMC design, review and compliance testing through Jastech EMC Consulting.

For a full list of EMC services please see the last page of this newsletter or visit our website at:

www.Jastech-EMC.com.

Looking to the Future (Up Coming Events)

June 25th

TARDEC Career Day Warren, MI

TARDEC Career Day is an opportunity for the TARDEC workforce to interface with vendors and Universities in a non-formal setting.

Jastech has been invited to attend and will host a table top display. Jim Muccioli and Dale Sanders will be on hand to discuss the EMC training needs for Military Ground Vehicles and robotics.

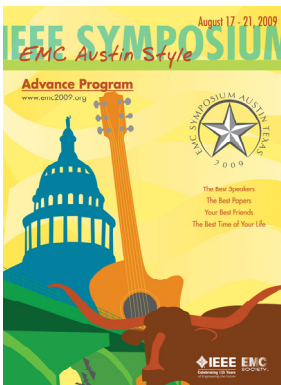
Hope to see you there!

August 17 – 21st

IEEE EMC Symposium Austin, TX

On Friday, Aug 21st, Jim Muccioli will be the Co-Chair of the FR-AM-5 workshop "EMC Issues in Hybrid & Electric-Propulsion Vehicles". Jim Muccioli & Dale Sanders will be giving the following presentations:

- "Evaluating Multi-Line EMI Filters for CM & DM" – Dale Sanders
- "EMC System Engineering of the Hybrid Vehicle Electric Motor and Battery Pack" – Jim Muccioli



In the Rear View Mirror (Past Events)

May 2009

TACOM Training Seminar Warren, MI

Dale Sanders and Jim Muccioli hosted a 3 hour training seminar at TACOM for TARDEC personnel. The seminar title was "Electromagnetic Environment of Ground Vehicles". The 3 hours were broken into (3) 1-hour sessions. The individual sessions were:

- "Measuring Radiated Emissions of ICs from Chip to Vehicle Level"
- "EMC System Engineering (Hybrid Vehicle Example)"
- "Noise suppression of Vehicle Electro-Mechanical Components"

May 2009

GM Discussion on Low-Voltage DC Motors Milford, MI

Jastech was asked by GM personnel to come in and lead a discussion on "Low Voltage DC Motors". Discussion was originally scheduled to last 1.5 hours but ran 2.5 because of interest. Topics covered were:

- System Engineering Approach for Compliance, Cost and Performance
- Evaluating a Motor for EMC
- EMI Filter Components
- EMC Testing at Labs & Test Plans
- GMW3103 & GMW3097 requirements

from both the OEM & Supplier perspectives

- Submitted questions/topics from GM personnel

April 2009

Southeast MI IEEE Sectional Presentation Dearborn, MI

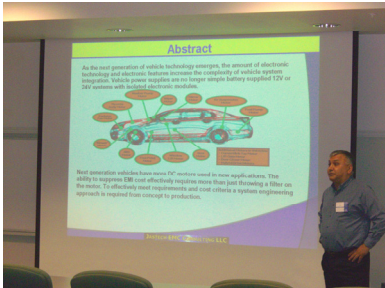
Jim Muccioli was the speaker for EMC Chapter session. Jim's presentation was titled "EMC Design and Suppression for DC Motors in Military and Automotive Vehicles". The presentation highlighted design and specification differences for DC motors in automotive and military industries. Jim also introduced the concept of System Engineering to manage design alternatives, requirements and cost.

January 2009

VCCI Workshop Zurich, Switzerland

Jim Muccioli was sponsored by the VCCI to be a presenter at the 2009 International Zurich Symposium on EMC VCCI Workshop.

The presentation titled, "Predicting Module Level RF Emissions from IC Emissions Measurements using a 1 GHz TEM or GTEM Cell – a Review of Related Published Technical Papers" was a review of TEM cell methods of measurement that showed the different measurement correlation from chip level to full vehicle to simulation.



To view copies of any
past presentation

please visit us online

www.Jastech-EMC.com

or send a request to

info@Jastech-EMC.com



Published Articles – ITEM

Dale Sanders and Jim Muccioli co-authored an article in the latest ITEM Magazine Publication. The article is titled "Test Methodology for Dual Line EMI Filter Evaluations".

The article discusses the equipment, set-up and fixture

construction needed to make differential and common mode measurements on a dual line EMI filter.

The example used in the article looks at an automotive CANBus common-mode-choke (CMC). The measurements look at the

line-to-line impedance balance as well as parasitic capacitance. (Neither parameter is specified by the CMC manufacturers.)

Jastech would like to thank both Rohde & Schwartz and Agilent for equipment and technical support.

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Things to Know – Changes to CISPR 14

Changes to CISPR 14 Standard Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus was modified in November 2008. The new amendment to CISPR 14 sets new limits for all cordless power tools. The limits are specified on Page 5 of the document. The added limits state “Both mains powered appliances and battery powered appliances are included”. Additionally all apparatus now must meet a radiated requirement from 30 MHz to 1 GHz by 2011 for all new and old appliances.

Jastech EMC Consulting is seeing an increase in customers contacting us for help with compliance to the new revision. If you sell products in Europe, you might want to check and see if this affects you.

Jastech EMC Consulting Services

JASTECH'S LINECARD SERVICES:

- EMC and Signal Integrity Training and Seminars
- Product Design Reviews
- EMI Filter Design & Prototype
- EMI Component Evaluation and Characterization
- Pre-compliance “Bench” Evaluation Testing, Diagnostic and Troubleshooting
- Production Process Review for Product EMC Compliance and Quality
- IC Emissions and Characterization
- EMC Test Management and Oversight
- EMC Product Test Plan Draft and Review
- Source Compliance Testing
- EMC System Interface Management

MARKETS WE SERVE:

- Automotive
- Military
- Consumer
- Passive Component Industry