

PXI Systems Alliance at AUTOTESTCON 2010

*By Bob Helsel
Executive Director of PXISA*

The PXI Systems Alliance (PXISA) is an industry consortium that promotes and maintains the PXI Standard. The PXISA is an organization chartered to:

- Promote the PXI Standard
- Ensure interoperability
- Maintain the PXI Specification

The PXI specification is 13 years old. From a single vendor company in 1997 to more than 58 companies in 2010, the PXISA has shown explosive growth. There are now well over 1,500 products in the marketplace. They show that PXI can address the most complex applications. Frost & Sullivan estimated a 17.6% compound annual growth rate through 2014 for PXI in Q4 2008. There are more than 100,000 systems deployed with more than 600,000 modules.

PXISA vendors are taking an active role in supporting AUTOTESTCON 2010. Many have booths to display their latest products (listed below). There are a number of PXI-related technical sessions. And the PXISA is holding its annual meeting at AUTOTESTCON.

Please drop by to meet the PXISA members in person. The PXI booths are:

Booth	Company
109	Pickering Interfaces
113	Aeroflex
118	PXI Systems Alliance
124	Impact Technologies
203	DG Technologies
213	DiagnoSYS Inc.
219	Acculogic designs
225	ADLINK Technology
229	XJTAG
301	North Atlantic Industries
303	C&H Technologies
313	National Instruments
319	Teradyne
325	Gigatronics
406	ZTEC Instruments
513	Virginia Panel Corporation
524	Chroma ATE
531	QMAX
603	JTAG Technologies
605	DRS Technologies

608	Agilent Technologies
611	EADS North America Defense Test and Services
616	Navatek
623	Geotest
632	BAE Systems
705	CSI
717	Advanced Testing Technologies, Inc.
721	Intepro Systems
738	ManTech International Corporation
803	MAC Panel
816	Rohde & Schwarz
836	Dow-Key Microwave
905	Phase Matrix
919	AAI Corporation
1001	ARC Technology Solutions
1003	ASSET InterTech
1019	Seica Inc
1021	ADVINT
1030	Huntron
1112	Southwest Research Institute
1137	Cal Bay

There are a wide variety of PXI technical presentations:

Technical Seminars (Track C)

Monday, September 13th 1:45 – 2:30 pm

PXI Standard Improves ATE Systems Design

Matthew Friedman, *National Instruments*

Mike Dewey, *Geotest-Marvin Test Systems, Inc.*

Spectral & Vector Signal Analysis

Tuesday September 14 SESSION 1B4 3:30 pm to 5:15 pm

Proportional Bandwidth Spectrum Analysis in a Synthetic Instrument

Robert Wade Lowdermilk (BAE Systems)

Fundamentals of Modern Spectral Analysis

Matthew T. Hunter (ZTEC Instruments);

Christopher D. Ziomek (ZTEC Instruments);

Achilleas Kourtellis (Astronics DME Corporation);

Wasfy Mikhael (University of Central Florida)

Dealing with Obsolescence

Wednesday September 15 SESSION 2B1 8:00 am to 9:45 am

Strategy in Practice: Taking a Hardware Abstraction Layer from Design to Deployment

Nathan Tacha (National Instruments);

Joe Helms (HarrisCorporation)

An FPGA-Based Solution for Testing Legacy Video Displays

Dale Johnson (Geotest – Marvin Test Systems, Inc.)

ATE Software

Wednesday September 15 SESSION 2D4 3:30 pm to 5:15 pm

Using modern ANSI C development tools to increase productivity and ensure test and measurement application reliability

Adri Kruger (National Instruments)

Reducing Obsolescence of Linux Based ATEs with Virtualization

Casey Weltzin (National Instruments);

Santiago Delgado (National Instruments)

More Innovations in Test

Wednesday September 15 SESSION 3B1 8:00 am to 9:45 am

Creating Next Generation HIL Simulators with FPGA Technology

Chris Washington (National Instruments)

Custom FPGA-Based Tests with COTS Hardware and Graphical Programming

Ryan Verret (National Instruments)

Test System Architecture

Wednesday September 15 SESSION 3B2 10:00 am to 11:45 am

Using PXImc for Creating High-Performance Multicomputer Test and Control Systems

Chetan Kapoor (National Instruments)

Implementing A High Performance Digital Sub-System Using the PXI Architecture

David Manor (Geotest – Marvin Test Systems, Inc.)

Technologies for Structural Test & Monitoring: The Modern Approach

Nathan Yang (National Instruments)

The PXISA Annual Meeting will be held in the Atlanta Room on Wed., Sept. 15, 6pm - 7 pm and is hosted by Geotest. Guests are welcome. If you are interested in joining the PXISA, go to http://pxisa.org/Become_A_Member.html.