

## Our visit to China and Japan

### 我们到中国和日本的訪問行

你好吗? How are you? Ni-Hao Ma?

艰苦运作-艰苦使用 Work Hard: Play Hard

Extraordinary and captivating, was our two-week tour of Eastern China and Japan. First and foremost, we can't thank the wonderful people in China and Japan enough for their hospitality and sincere interest they provided to DSI International which extended from all of the cities and institutions we toured and presented. We came away greatly humbled by your hospitality – thank you for being so kind, helpful, interested, and inquisitive.

DSI has visited Japan a few times over the past six or seven years, but this was the first time that we explored the palatability of the opportunities in China. A couple of years ago, such a visit may have been at the risk of being a bit premature with the sharing of the need to develop diagnostics as an integral element of the systems design. Not any more. China is a quickly developing country and is astutely becoming a “quick study” in the process of systems diagnostic engineering.

DSI's software product **eXpress**, has been true-tested and has a successful track record of being used on the most complex system diagnostic design and integration projects on the planet. Based on



our first-hand information, it is equally obvious to many people overseas that this is a critical line-item that only exists on one resume.

Throughout our tour of China, we greatly enjoyed learning as much about their growing interest in diagnostic engineering and their desire to explore the use of **eXpress** in a role that targets robust diagnostic engineering solutions for a number of diverse applications.

Our first stop in Beijing was delayed an extra day due to the cancellation of our connecting flight from Japan, however we were able to “open” the airport the next morning and pick up with our representatives in Beijing, China, MTCS Systems Engineering. Executive Vice President, Robert Wang met with us at our hotel in Beijing where we went over our high-powered traveling schedule over an exquisite Chinese brunch! Travel plans were to meet with various institutions every morning of every day traveling to a new city every late afternoon. We kept this going without missing a beat. Robert had prearranged all of the air and ground transportation along with all of the associated hotel accommodations to perfection. Prior to our visit, Robert also had coordinated our outrageously aggressive schedule perfectly with all of the institutions that were awaiting the chance to meet with us and so we never had an empty seat in our full-house meetings. Great job, Robert and his wonderful staff, particularly SH, Vivian, and Xiaobin – you were all incredible!

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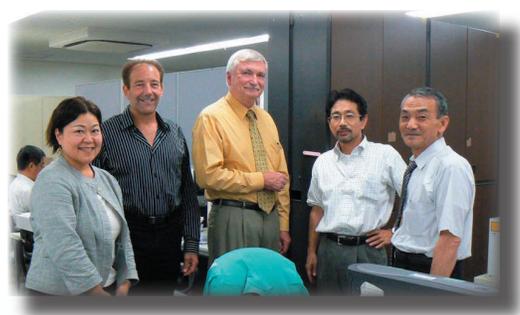
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# Visit to China & Japan (continued)

We ventured southeast over and across the Bohai Sea (east of Beijing) to a city called Yantai in the Shandong Province. We were able to land our mini-737 in a 3-block-long runway by slamming on brakes and stopping with several feet to spare. Great fun! Not sure of the name of the very quaint and cozy airport, but it is also sports military use. If we thought the landing was thrilling, we had no clue of what was coming next.

The taxi ride from the Yantai airport to our hotel was an absolute gas! Never have I been in a runaway car on roads where traffic rules are just totally abandoned without discrimination. Of course we had the time of our lives and couldn't stop laughing but the ride could be quite disturbing to the faint-hearted. Never could find any seat belts, but we turned out just fine anyhow. What a kick! Great meeting and lunch and then off to cities of Wuhan, Nanjing, Shanghai and back to Beijing for a Sunday trip to the fascinating GREAT WALL.

All of the people we met and interacted with in China during all of our presentations were kind and had very poignant questions. There was no doubt that much homework was performed by our audience prior to our visit. We were pleasantly surprised and this enabled some very good discussions. Again, thank you Robert and the MTCS staff for making this a valuable and wonderful experience for ourselves and for those who spent the time with us: GREAT FUN, GREAT GROUP, GREAT JOB and we'll be back to do the "stair-climber" again with you on the GREAT WALL! We'll even give you a 1500 stair lead next time.



Our visit to Japan lived up to our expectations and never disappoints. Y-MAX, Inc. located in Tokyo, Japan kept the pace going for us the day we arrived. We were greeted at the Narita Airport by Masayo Tagami. Masayo-san has been our enchanted translator since 1999 and always has a busy schedule and exercise planned for us each time we visit the beautiful country of Japan. This visit was no exception.

Y-Max had also put together a plan that had Jim Lauffer and Craig DePaul traveling to the Y-Max main office and specifically to personally meet with one of their most preferred local customers. We enjoyed the discussions we had with everyone we visited and were impressed with some of the questions that we were asked by their customers. It is music to our ears to hear that engineers and major companies in Japan are also seeking answers to their desires to improve their diagnostic capabilities.

Anyhow, we wish to extend a great round of thanks to Noda-san, Tetsui Nashida and Kimura-san for their top-notch hospitality that they provided to us. You guys are terrific and it certainly shows. Great job – Great fun too!



## Get the Latest! New eXpress™ Version 5.10.5

DSI has just released **eXpress** version 5.10.5 which includes several new features and enhancements to make modeling and analyses much easier and time efficient. This patch is fully compatible with files developed using any other patch (past or future) of **eXpress** v5.10. Along with the many new features in this release, fixes have also been incorporated to enhance the robustness of the **eXpress** modeling / analysis environments. With each new release of **eXpress**, DSI's commitment to the user is demonstrated with a focus to make **eXpress** not only the single choice for testability and diagnostics software but the very best integrated systems engineering diagnostic solution. To achieve this objective, included are new enhancements to reduce initial modeling time, minimizing the effort necessary to make edits or global changes to models, and more detailed and format friendly reports.

Version 5.10.5 includes the following new features:

- \* **New Features for Batch-Generating Path-based Tests**
- \* **New Features for Batch-Generating Coverage-based Tests**
- \* **Enhancements to State Selection during Test Editing**
- \* **Reformatted Item Detection Report**
- \* **Compensating Provisions can now be Edited in Grid View**
- \* **Ability to Automatically Create Failure Effects**
- \* **Ability to Automatically Create Failure Modes**
- \* **Ability to Batch-Change Relationships between Failure Modes and Affected Functions**

For more information about this exciting and feature filled release please visit the DSI website and download the release notes or better yet download the latest version ([www.dsiintl.com](http://www.dsiintl.com)). If you have any questions please contact DSI for more information.



## DSI and Sorman are integrating Diagnostic Technologies

DSI International - a United States company that is the leader in Diagnostics Design and Development Technology, and Sorman Information and Media AB – a Swedish company that is the leader in Model Based Reasoning (MBR) technology – have signed an agreement to integrate these two technologies into the formation of a powerful Integrated Systems Diagnostics Tool Set.

Diagnostics tool, *RODON*. The integration of these two industry standards will be of great value in the design, assessment, test and implementation of a solid framework for Systems Health Management and Maintenance. This systems process can be applied to any type and complexity of equipment, including electronic, mechanical, hydraulic, optical, and any other type or combinations of equipment and systems.

This technology integration will provide the advance diagnostics design and development capabilities of the DSI Integrated Diagnostics tool, **eXpress**, and the capabilities of Sorman's interactive Model Based

For more information, please visit the corresponding web sites:

[www.dsiintl.com](http://www.dsiintl.com) and [www.sorman.com](http://www.sorman.com)

## eXpress™ Training in China

DSI will be conducting **eXpress** Training in Beijing China January 14 – 22, 2008.

See schedule below and please contact Robert Wang of MTCS, Corporation As Soon As Possible (ASAP) if you are interesting in attending.

Robert Wang: [rwang@mtcs.com.cn](mailto:rwang@mtcs.com.cn) Website: [www.MTCS.com.cn](http://www.MTCS.com.cn)

## Training Schedule

Course Number	Pre-requisite	Course Description	Dates	Location	POC
200	120	Advanced Diagnostic Development & Assessment	7-8 Jan, 2008	Orange, CA	Denise Aguinaga , DSI
205	200	Advanced Test Development & Importing	9-10 Jan, 2008	Orange, CA	Denise Aguinaga , DSI
210	205	Advanced FMECA Development & Assessment	11 Jan, 2008	Orange, CA	Denise Aguinaga , DSI
110	100	Basic Modeling & Introduction to Testing	14-15 Jan, 2008	Beijing, China	Robert Wang, MTCS Corp.
120	110	Introduction to Testing & Analysis	16-18 Jan, 2008	Beijing, China	Robert Wang, MTCS Corp.
200	120	Advanced Diagnostic Development & Assessment	21-22 Jan, 2008	Beijing, China	Robert Wang, MTCS Corp.
100		System Diagnostics Concepts and Applications	28 Jan, 2008	Orange, CA	Denise Aguinaga , DSI
110	100	Basic Modeling & Introduction to Testing	28-30 Jan, 2008	Orange, CA	Denise Aguinaga , DSI
120	110	Introduction to Testing & Analysis	31 Jan - 1 Feb, 2008	Orange, CA	Denise Aguinaga , DSI
100		System Diagnostics Concepts and Applications	11 Feb, 2008	Orange, CA	Denise Aguinaga , DSI
110	100	Basic Modeling & Introduction to Testing	11-13 Feb, 2008	Orange, CA	Denise Aguinaga , DSI
120	110	Introduction to Testing & Analysis	14-15 Feb, 2008	Orange, CA	Denise Aguinaga , DSI

## Always Remember: "D" comes before "P"

If you don't have Diagnostics, you don't have Prognostics.

Diagnostics Analysis is the Preparedness Function for insuring your investment into Prognostics. There are some aspects of prognostics that may be considered for industry today, but at a price. Even the best prognostics technology of the future, shall be limited by the weakest link involved in maneuvering and interpreting the prognostics data within and throughout the integrated system level in cooperation with the on-board reasoners and tailored Health Management systems.

Bottom Line: If the system can't see it, the prognostics investment is lost.

Health Management (which follows the "P" in PHM) can only manage that which is limited by the resourcefulness of its own design. You must use trade studies in the design to influence what systems (redundant, etc.) can increase

the success of the missions without adding too much weight, complexity, or decrease in reliability to the overall integrated system. Just because you may be able to project anticipated failures, you still do not have the ability to anticipate the environment, available resources or variable failure impact on related components, etc., which were not included in the physical studies (which limitations are often attributed to funding inadequacies, integrated system level diagnostic ambiguities, choices, and/or lack of well prepared/assessed system requirements to/from any/all suppliers/contractors). All of these issues and many more need to be first addressed by diagnostics for the integrated system. When we get this horse back in the barn, then and only then, should we even consider any thoughts about prognostics!

In time, Prognostics can be a very welcomed technology, provided we don't toss it under the bus (with inadequate Systems Diagnostic Design) the way some toss Integrated System Diagnostics under the bus..... United they Stand.



### Users Group in Paris, France

April 17<sup>th</sup> 2008 *Contact DSI for Details*

## Publish Your Article

If you would like to publish a short article in the DSI's Newsletter, please let us know. The article should be relevant to Diagnostics, less than two pages and shows a solution to a challenge.

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