



Introduction

Hello again,

EMEX is May 14, 15, 16 at the Auckland Show Grounds.

EMEX: This the Front Page theme for the eNews this month, the products we will have on our stand and the seminar series we will present there.

MasTec is doing three seminars, Texmate Programmable Meter Controller, ZWorld TCP Controllers and Distributed I/O from several manufacturers.

Training courses: MasTec has held six course for the year and trained 28 people in LabVIEW. The enrollments keep coming, the next course is Auckland May 29, 30 31, send an enrollment email to MasTec Ltd.

MasTec Highlite this month on Page 2

National Instruments Alliance
Panasonic Tough Palm computers.
Silicon Imaging CMOS HDTV Cameras

MasTec Ltd Marketing Button

Have a look at the www.mastec.co.nz side bar button set and click **Marketing**. This covers many of the announcements by MasTec Ltd over the last year or so.

MasTec Ltd Specials Button

Also click our **Specials** Button. After the March 31st stock take, we placed on this "specials" page, a large number of products to clear. We are open to offers on any of these items. We will be changing this page to an auction shortly.

MasTec Ltd @ EMEX Stand

This is what we are showing off on our Stand.

The TIC 2D Scanner Profiler. Take any object that will fit on an A4 or A3 scanner and get IMate 2002 to do dimensioning and tolerances. All QA people who are making products and they need. It is able to learn the shapes of your products and do Pass -- Fails.

The Faro Arm 3D Measurement tool. On line measurements, dimensional inspections, CAD to part comparisons, reverse engineering and parts checking. This is amust see for anyone involved in checking for 3D accuracy in manufacturer.

OPTO 22 Solid State Relays and Distributed I/O.Seminar Backplane SSR modules, also the Hockey Puck AC& DC high current units. Come and talk about upgrading from relays and contactors to SSRs. We stock heavily. The cost is low, they are easy to control, 3-32VDC or 30-280 VAC.

TexMate Tiger 320 Series Seminar Programmable Meter Controllers

I mentioned these in the last eNews and I am still talking about this amazing product.

Here is more info, we are doing a seminar on this at EMEX, we will be showing how to make an analog controlled **"Tank Level Controller"** with a scrolling message on alarms.

This device is called a programmable meter controller. However it has several instrument classes inside.

- Advanced digital panel meter
- PID controller
- Digital PWM Controller
- Analog and Digital Logger
- Scrolling annunciator message system
- Multi channel timer (seven)
- Analog inputs 4 channels with 100 signal conditioning types
- Analog Outputs 2 channels many conditioning options
- Serial Printer controller
- Field Bus Device ASCII, ModBus, TCP, Devicenet
- Multi meter communications controller
- 22 Channel Opto Isolated I/O interface, control up to 16 SSRs for instance to build a control system
- AC Power measurement and control system
- Program in "Basic" as a functional block, control all of the above and also do full looping "Basic" programs with math, polynomial linearisations, statistics and much more.

As I said last month

"You will fall over" when you see the functional specs

They are:

- Easier to program than a PLC
- Faster than a process controller
- Smarter than remote or modular I/O
- Better reliability than micros and SBCs
- Outperforms most recorders and data loggers
- Eliminates most external Counters, Timers, and Tachometers
- More comms options than dedicated Field Bus Devices
- Greater integration than racks of signal conditioners & transmitters, over 100 different signal interface types.
- Delivers all of the above with faster implementation and for a lower cost, starts at \$700 NZ approx.

At the Seminar we will show how to program these Tigers.

This product will replace a huge range of instruments, allowing you to carry just one spare.

To commission a new istrument, connect to a PC, configure, programm and it becomes what the code says.

LabVIEW Demos. MasTec will be doing regular LabVIEW demos thoughtout the show to any one who asks that comes on our stand. **We have a prize, drop your B/card.**

Also come and discuss your training needs for your staff or for yourself.

Z World Rabbit Micros A range of Z World micros MasTec will be showing how to program and debug code etc. The TCP Rabbits will be on show. Make an HTML Web server the size of credit card. **Seminar**

www.mastec.co.nz

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National Instruments Alliance
Panasonic Tough Palm computers.
Silicon Imaging CMOS HDTV Cameras
NI Real Time FieldPoint and more

National Instruments Alliance

MasTec Ltd has been a VAR and part of the NI Alliance for many years. As an NI Alliance member we offer these services to our customers.

MasTec will assist customers to select products from the NI range, we know the products very well now, we have been selling them for 16 years.

MasTec will also install products for customers at their site or ours. If you need a DAQ, GPIB card or what ever, installed, we will do this and link it to your software. There is a hourly charge for this type of work.

MasTec will also train programmers and engineers on LabVIEW, LabWindows and Lookout Software. We do on Site training and also public training at our facilities at Torrens Rd in East Tamaki.

MasTec will also undertake contracts programming jobs in LabVIEW and LabWindows and Lookout.

MasTec will also do complete turn key systems, with commissioning and installation work.

MasTec also arranges for RMA repairs. We will test the product you send back to make sure it is failed. This will save some money if it is not failed and just a software problem.

Panasonic Tough CE Palm

No Pictures, I have promised not to make this a big PDF. Look on www.panasonic.com for details or if you want a spec sheet email MasTec, we have a nice PDF.

Key Points

- Designed using MIL-STD-810F test procedures
- Moisture-resistant casing
- Sealed port and connector covers
- Scratch-resistant case and screen
- Drop shock-resistant design
- Lightweight, 1 lb. Design for True Mobility
- 3.5" Transreflective Color LCD-Touchscreen&Frontlight
- Touchscreen & Keyboard Data Entry
- Moisture- & Dust-resistant Casing
- Sealed Port & Connector Covers
- Drop Shock-resistant Design
- Wireless-ready Design

Note it has a keyboard. I/O+ Palm card slot, USB, RS-232 IrDa. Running times of up to 12 hours.

Silicon Imaging CMOS Cameras

MasTec is the distributor for these new 3.2 million pixel CMOS cameras. Look at www.siliconimaging.com for full details. The main performance point is 2056*1560 pixels running at 30FPS. The frame rate is adjustable on resolution. Go down to 2056*200, frame rates are 230FPS. The camera will run faster than this, 2056*64, the frame rate is approaching 1KHZ.

The camera uses the new **Camera Link** super high speed interface for PCs. Interested, send MasTec an email asking for pricing and details

NI Real Time FieldPoint

Last month we discussed the Sheldon Instruments very powerful LabVIEW programmed Digital Signal Processor (DSP) and Real time controller card for your PC. Closed loop controls of up to 750KHZ, wow!

This month we are going to discuss the new National Instrument NON PC based Real Time Controller for Field Point.

If you haven't seen Field Point, ask for a brochure or go to the web www.ni.com. Quickly, it is NIs Distributed I/O system that is based around the OPTO 22 distributed model using OPTO MUX protocols.

Originally FP was controlled by a PC across an RS-232 or 485 link. Use LabVIEW, LabWindows or Lookout.

It is used extensively in NZ for building high I/O count, low speed measurement and control systems.

Then the Ethernet connections were added and performance jumped significantly.

Now, NI have released a new "TCP Network Controller" that is a very important technology.

Have you been nervous about letting your PC take over running your nuclear reactor in the basement, just in case Windows locks up or goes away. Good thought! Yes I understand, you may not have dinner in that place again.

The new NI Controller FP-2000/2001 is a full controller with watchdogs for recovery and it is stand alone, doesn't run Windows and will reboot very quickly if it falls over.

Here is the big bit though, you develop the program for this controller inside LabVIEW RT and download it into the FP-2000 module and you can now disconnect the PC and your system is now under the control of a LabVIEW program running on a Real Time Platform that is robust.

Interested, yes of course.

Does this sound like a PLC, well it is sort of, except it is distributed, yes a lot of PLCs are now also.

BUT can you program your PLC with LabVIEW and take advantage of all those amazing abilities LabVIEW has.

Employment at MasTec

You may have seen MasTec was looking for new staff members. Under the employment button on our web we post jobs.

We now have a new employee, **Charlotte Miles**, you may have spoken to her already. Charlotte is quick to learn, has a back ground in marketing and telesales and is doing a great job.

Charlotte is slowly going to take over Saera Tui's work, because Saera Tui, starting May is becoming another FSE (Field Sales Executive). Initially Saera will do 1 week per month and as Charlotte learns, extend this to become a full time FSE.

Saera's external customers are all the government, CRIs and all the Electrical Wholesalers in NZ and beyond.

If you especially need Solid State Relays talk to Saera.