

THE AUSTRALIAN METROLOGIST

Issue 11 - May 1997

Introductory paragraphs to stories and comments in the paper version of

TAM, "The Australian Metrologist"

- Please see the magazine for the full story!

From the President - by John Miles

I was standing in the wind and rain recently at the plant of a large LPG supplier, watching a road tanker pump LPG through a flow meter to a small volume prover and then back to the tanker. We were waiting for the system to come to thermal equilibrium before calibrating the flow meter using the prover as a reference standard. A prover is a volume standard consisting of a large cylinder and a piston that delivers a known volume of liquid, much like a giant syringe.

Editors Column - by Jack Deller

Here we are again with edition number 11 and only a couple of weeks late.

I guess you noticed the cover of our magazine. It is our first step in up-grading the journal I mentioned in the previous issue. While it is all very nice to have a presentable publication the main issue is content and I am still having difficulty in obtaining copy in the timescale set down.

Please, have your say via TAM. Anything you find of interest relevant to metrology will be of interest to other members. So, before filing it in the WPB consider it as an article in TAM.







You will be interested to know that we have had three inquiries from overseas metrologists wishing to gain more information on our society. This is a direct consequence of our web-page so people out there are interested in the MSA.

MSA Salary Survey 95-96 Part 1

Prepared by Dr. Jane Warne Senior Physicist
Bureau of Meteorology Melbourne
(Jane is also a MSA Management Committee member)

This is first of a two-part analysis and discussion of the MSA Salary Survey 95-96. This article will give a brief summary of the key results and discuss in more detail the remuneration results of the survey. The second article, which will appear in the next edition of The Australian Metrologist, will look more at the areas of work and will include the 96-97 Salary Survey.

News from NML





-  NML achieves National Facility Status
-  New primary standard for radiometry
-  Extension of NML's EMC Facilities
-  Australia/New Zealand audits by the Federal Aviation Administration, USA
-  NML cooperation with APLAC
-  The Asia-Pacific Metrology Programme (APMP)

News from NSC

Controls for Simulated Test Methods in Pattern Approval Testing

MSA Member Profiles

For profiles on the following MSA Members you will have to rush out and see the paper edition of **TAM**

-  Carol Sieker
-  Jack Duce
-  Neville Owen
-  Graeme Smith

Conference Up-date

The MSA biennial conference is now only 6 months away, and all metrologists wishing to attend should be starting to plan for it. Time to get out those planners and put a big circle around November 26 to 28.

Metrology Society of Thailand

Did you know that there is a Metrology Society in Thailand? The MSA's new Web site (<http://www.ozemail.com.au/~ausmet>) has been very successful, attracting a number of international contacts, including Ms. Thawilwadee Bureekul, Secretary of the Metrology Society of Thailand (MST).

According to Ms Bureekul, the MST aims *"to carry out activities which encourage the development of metrology system of Thailand to be in accordance with universal standards. We are center for exchange knowledge and experience among metrologists in Thailand. Our society has been set up for 5 years and now have around 200 members."*

The president of the MST is Dr. Wiboonkiet Moleeratanond. The MST is keen to establish formal links between the MSA and the MST and we will certainly be exploring this in the future. As part of this process, we are encouraging a group of metrologists from the MST to attend the MSA conference in November 1997.

So, if you are travelling in Thailand or you simply need to make some contact with metrologists in Thailand, contact Ms Thawilwadee Bureekul at:

Technology Development Office(TDO)

[E-mail to: tdopgc@ksc15.th.com](mailto:tdopgc@ksc15.th.com)

Premier Group of Companies(PGC)

[E-mail to: thawip@mozart.inet.co.th](mailto:thawip@mozart.inet.co.th)

1 Soi Premier, Srinakarin Road

Prawet, Bangkok, Thailand 10260

Telephone: + 66 (2) 301-1000

Facsimile: + 66 (2) 301-1092

News from the States

New South Wales

Our first meeting to the Macleay Museum in Sydney University was well attended. Members really enjoyed the opportunity to have a private viewing of this historically important exhibition. Kater's letters, papers and equipment have been generously lent by his family. Julian Holland presented a most informative lecture which provided insight into Kater the man. This exhibition will be on for most of this year so if you are visiting Sydney be sure to drop in for peaceful interlude.

The RAAF base at Richmond is providing a venue to demonstrate their NDI testing facility on May 28. Plans are well underway for July 16 for an astronomy evening with a focus on metrology at the University of Western Sydney, Werrington Campus. This will start around 7.30 PM after a barbecue.


Medical measurements will be demonstrated at Westmead Hospital on October 14, from 5-7. October will be a busy month with an AGM for NSW in the end of the month. In mid November members will have an opportunity to revisit the very popular Sydney Airport this time to view aircraft operations. A visit to AGAL in August is yet to be confirmed. Please consider nominating to organise events for 1998 as we need your input to make the association work for you. Great ideas and nominations can be faxed to Marian Haire on (02) 9888 3033.


Victoria


Victorian members attended a technical evening and tour of the factory of Gauge maker S.G.Prittie Precision Gauges Pty. Ltd. during April.


The next technical evening for Victorian members will be a tour of the new test and calibration facility of **PowerNet**

On:	Friday 18th July 1997
Address:	308 Hyde Street, Yarraville
Contact:	Ron McBain
Telephone:	(03) 9852 0466
Facsimile:	(03) 9850 3919
By:	30 June 1997

 Queensland
Nothing received for this issue

 South Australia
Nothing received for this issue

 Western Australia
Nothing received for this issue

 Tasmania
Nothing received for this issue

Addressing Measurement Issues in Industry

A Sectorial Approach
by Dr. Richard Brittain
National Standards Laboratory.

Introduction

Following recent developments in the area of Australia's technical infrastructure, and in particular the Inquiry into Australia's Standards and Conformance Infrastructure (the Kean inquiry), the National Standards Commission has been refocussing its activities in the area of national metrology policy into a strategic analysis of the national measurement system. As part of this approach the Commission is preparing an options paper for addressing measurement issues in Australian industry. This article is intended to inform both users and providers of industrial measurement in Australia of this activity with a view to the possibility of obtaining their input at a later stage.

Letter to the Editor

In the February issue of TAM it was with great elation that I finally saw in print the technical explanation / definition of a Metrologist.

I must say that after some 35 years plus in the field of dimensional metrology it is a great relief to find the words that can explain in detail what I have been doing over these years.

You have no idea how pleased my wife was when she read these wonderful meaningful words defining a metrologist. At long last she now realises what a wonderful and brilliant omnipotent genius who comes with great empirical knowledge (borrowed those words from Garry. Price's article) and technical skills she has spent many wonderful years with.

This definition now hangs near the telephone, so that when she is asked what Ron does for a crust. she can now gush forth with this grandiose definition of my chosen profession, at long last there is know need to explain that Ron is not responsible for the weather.

However, I must take exception to an important element which is missing in the definition, that being the area of statistics, because, after all, the first 90% of any R&R study takes 90% of the time, the remaining 10% takes the other 90%.

Its no wonder that dimensional metrologists are made to measure go to any lengths, what's more if it wasn't for the last minute nothing would be done.

Prepared at the last minute for inclusion in TAM

Ron McBain (QCS)


New Members

We welcome the following people have been accepted into the MSA since the last publication of new members. (Issue 8 June 1996)

NSW

-  Bolenski Dieter (M)
-  Balakrishnan Vasukan (A)
-  Zeleny Jana (M)
-  White Allan (M)
-  Bell Trevor (M)
-  Dickinson Laurence (M)
-  Jiang Xihu (M)
-  McKinley David (M)








QUEENSLAND

-  Williams Noel (A)
-  Smith Trevor (M)




SOUTH AUSTRALIA

-  Wojcik Matthew (A)


VICTORIA

-  HuysingP Paul (M)
-  Alesi Joseph (M)
-  Tossel Anthony (M)
-  Salem Sam (M)
-  Ward Adrian (M)
-  Rabby Luftur (M)
-  Butler Ian (M)
-  Byers Ricky (M)

WESTERN AUSTRALIA

-  Cole Stephen (M)
-  Dobson Peter (M)
-  Martin Jeff (M)

NEW ZEALAND

-  Kapoor Lyndon (M)

(M = Member; A = Associate Member) Membership as at May 1997

-  ACT - 2
-  NSW - 102
-  NT - 4
-  QLD - 39
-  SA - 34
-  TAS - 6
-  VIC - 142
-  WA - 18
-  Overseas - 6
-  Total - 357

Metrology Training Survey

Are you aware that you can improve the calibration skills of your employees by enrolling them in a TAFE course? The following Metrology modules were developed as part of a nationally accredited curriculum designed to address industry requirements. The modules and their associated assessment packages have been completed for some time. Sydney Institute of Technology and the Royal Melbourne Institute of Technology offer these modules.

Jobs for Metrologists

PRECISION MACHINE TOOL FITTERS

- High Performance Company
- High Earnings Potential
- Clean / Non-Noisy Environment
- Eastern Suburbs

The company requires people who are patient, tolerant--able to plan things, quick witted, and able to work without close supervision.

This leading, multi award winning Australian Enterprise has opportunities for a number of Precision Machine Tool Fitters. You will be working in a "State-of-the-Art" environment with a dedicated team. You will be reporting to an approachable Production Supervisor. You will be required to build precision machines from the ground up (no production lines here)..... from a fully tooled fitting bay you will be working from complex drawings and using precision measuring instruments.

Appropriate experience may include: gearbox, spindle motor assembly environment...Metrology and/or ISO 9000 quality experience will be well regarded. Good communication skills (reading, writing, comprehension) and the ability to follow complex drawings is essential.

To further discuss these opportunities contact:

John Jago of "BEVAN TURNER GROUP"

Phone: (03) 9347 6888

Fax: (03) 9347 6466

or send your details to

PO Box 1212 Carlton Vic 3053

CALIBRATION TECHNICIAN

(This position is located in South Australia)

An organisation is seeking a calibration technician to be responsible for,

- Calibration
- Maintenance
- Repair

of test equipment with the principal accountabilities being:

Certify, diagnose and repair test equipment

Receive and dispatch all maintenance items of Testing, Measuring Diagnostic Equipment (TDME) and assist in master inventory of TDME.

Assist in the development of local calibration procedures as required to meet requirements of new or peculiar TDME.

Train, on new equipment and new procedures.

Assist with random verification inspections on items calibrated to ensure correct adherence to authorised calibration and maintenance procedures.

Assist in the determination of manpower and equipment requirements for current and future programs.

The successful applicant would be responsible for the work required to align, inspect, troubleshoot, overhaul and calibrate TMDE using advanced principles of metrology and technical maintenance practices.

He or she should:

- hold an industry accepted tertiary course certificate concentrating on principles of metrology (either from a military source or an accredited technical institute.
- Have at least 2 years experience in a metrology environment with that experience concentrated in Waveform measurement.

For further details contact:
Greg Young of "QUEST PERSONNEL"
Phone: (03) 9415 8711
Fax: (03) 9415 8733
or send your details to
PO Box 1272 COLLINGWOOD VIC 3066