



RheoTalk

NEWS AND INFORMATION FROM RHEOLOGY SOLUTIONS

Update on People, Products, and Plans

June-July 2002



Young Scientist Award

Call for Submissions

This award is open to all young scientists worldwide (at the beginning of their careers or with less than five years experience) who is either in academic or industrial careers within the sphere of material characterisation.

If you meet this criteria or know someone who does, then visit www.rheofuture.de - Young Scientists Award 2002 to find out more about this new initiative.

Papers can be submitted until 15 August 2002.

The authors of the three most scientifically promising novel contributions will be invited to give a plenary lecture at RheoFuture, the international forum for material characterisation in Karlsruhe, 2-3 December 2002. The Young Scientists Award is an initiative of Thermo Haake.

This could be your chance to have a trip to Europe, present your work and also get in some skiing or site seeing.



Technical Support For Rheology Applications

Timothy Kealy, BEng MSc PhD (Newcastle, UK) joined the team at Rheology Solutions on 1 May 2002 as the Technical Manager.

Tim brings with him expertise and experience across Chemical Engineering, Mineral Slurry and Suspension Application areas. His background combines QA industry experience with academic research and consulting projects, predominantly for rheological applications.

The key areas of responsibility for Tim incorporate:

- Technical support for our existing and new customers
- Customer method development & validation
- Customer training covering rheology theory and practice
- Development and facilitation of rheology seminars and workshops

Tim will be spending most of June out of the office visiting Thermo Haake, Thermo Prism and Prescott Instruments for training. He will be back in Australia at the end of June ready and able to support your application and technical needs. Tim can be contacted on Email: timkealy@rheologysolutions.com



Tim is ready and waiting to meet with you to discuss your application



Exhibitions & Seminars

We will be attending two major exhibitions in the last half of 2002 and these are:

FoodPro 2002 21 - 24 July 2002 Sydney Convention & Exhibition Centre
This is The Australian International Food Processing Exhibition in co-location with the 35th Annual AIFST Convention.

Expoplas 2002 15 - 18 October 2002 - Melbourne Exhibition Centre
This is the International Trade Exhibition for the Plastics Processing Industry in Australasia Pacific and Oceania.

We hope to see you at these exhibitions so we can welcome to our stand.

Seminars - During the financial year 2002 - 2003 we will be running two seminars around Australia. The first seminar is planned to run in the last quarter of 2002. The seminars topics will be derived from the following four application/industry areas:

- Colloids, slurries, minerals
- Foodstuffs, gels, emulsions
- Paint, inks, adhesives
- Polymers, rubbers, carbon black

Phone or email to register your area of interest so you will receive a copy of the program.



National Product Launch

The New RheoScope 1... a new analytical instrument concept that combines rheometry with optical microscopy.

Trying to understand the rheological properties of materials in real-life situations is challenging. Until now, a variety of analytical instruments and experience were required for the analysis of the influence of shear flow on the structural changes of a material.

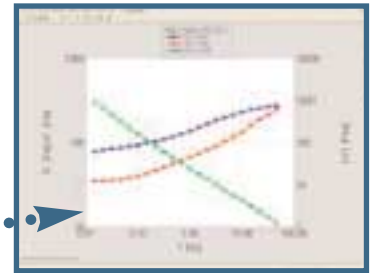
As of today only one instrument is needed, the new RheoScope 1.

The product launch will include an introduction to the product concept, application examples and product demonstrations in the following Capital Cities.

August 12	Monday	Perth
August 14	Wednesday	Adelaide
August 16	Friday	Melbourne
August 19	Monday	Sydney
August 21	Wednesday	Brisbane



Results & Visualisation



Call or send an email to register your interest in attending the launch. A final invitation confirming the program, dates and venues will be sent at the end of July.



Expanded Product Range

Our range of products has also been expanded and we now offer products from the following manufacturers: Optical Control Systems, Prescott Instruments, Shimadzu, Thermo Haake and Thermo Prism. The products we offer include:

Carbon Black Testing Instruments:

individual pellet hardness tester (IPHT), DBP Absorptometer (DABS), DBP Absorption Data System (DADS)

Material Testing Instruments:

melt flow index, capillary rheometers, automated melt flow indexer, gellation tester

Optical QC Systems for Polymers:

detection of gels & blackspots in pellets/powder/films - molten polymer, extrusion systems, chill-rolls and winding units, FTIR spectroscopy, pellet size and shape & distribution, On-Line haze measurement, fluorescent detection, colour measurement, physical properties

Polymer Testing Instruments:

micro compounders, torque rheometers, mixers, extruders - single and twin screw extruders, post extrusion equipment

Rheometers:

controlled rate, dynamic oscillation, controlled stress, modular

Rubber & Elastomer Testing Products:

auto loading moving die rheometer, moving die rheometer, mooney-line viscometer, oscillating disc rheometer

Texture Analyser

For texture evaluation of various food products.

Temperature Control:

immersion circulators, bridge circulators, open bath circulators, shaking water bath, heating circulators, refrigerated circulators., cryostats, immersion coolers

Twin Screw Extruders:

twin screw compounding equipment for laboratory through to production applications

Viscometers:

falling ball, battery operated, rotational for QA or QC applications, micro viscometers



Mooney Line Viscometer



Pharmalab Extruder



NSW Manager Appointed

David Chin has been with Rheology Solutions for over three years in the role of National Service Manager and we are pleased that as of 1 May his role has expanded to include the management of NSW including sales and customer support.

Combining these two key roles will provide all our customers (both in NSW and nationally) with greater support. Over the last three years, David has attended a number of service training programs with our manufacturers and is up to date and trained in all the current products that we distribute.

Likewise, David will be overseas in June for training and back on deck in July ready to support you with the latest information on the products from a sales, application and service view point. David can be contacted by Email: davechin@zeta.org.au



Dave is ready to party in celebration of his first BIG order in NSW



Articles

An extended selection of technical articles and reports are listed on our website [www.rheologysolutions.com / Technical Articles](http://www.rheologysolutions.com/TechnicalArticles). These are available mainly as PDF's free of charge. The list of articles available are updated every few weeks and are categorised under the following headings:

- Adhesives
- Instrumentation
- Electro Rheology Solutions Pty Ltd food
- Oil
- Polymer
- Mining & Construction
- Paint
- Powder
- Pharmacology/Pharmaceuticals
- Rheology method
- Software
- Journal of Rheology Articles
- Laboratory Reports for Compounding & Extrusion

New articles that have added to the above category list as follows:

- **Food** - Vane Sensor System in Small Strain Oscillatory Testing (Rheo005)
- **Paint** - Rheological Behaviour of Automotive Paint Systems (Rheo008)
- **Mining & Construction** - Laboratory Evaluation of In-Situ Gelled Acids for Carbonate Reservoirs (Rheo007)
- **Rheology Methods** - The MiniLab to Monitor Reactive Systems (Rheo003)
- **Laboratory Reports for Compounding & Extrusion** - Laboratory Scaled Mixers for Rubber Compound Qualification - Electrical Conductivity (Rheo011)

Request your copy of the article/s of interest.

For further information on any of these items or the product range or services now available, complete the information request form or contact our state appointed distributor.

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QLD	Scientific Solutions	Ph: 07 5477 0589	Fax: 07 5477 0658
SA	Gerard Scientific	Ph: 08 8260 8101	Fax: 08 8260 8104
WA	Walker Scientific	Ph: 08 9240 5255	Fax: 08 9240 5266
TAS	Technolab	Ph: 03 6229 7437	Fax: 03 6229 2748
National Service	David Chin	Ph: 02 4578 1010	Fax: 02 4588 6203



New Technical Notes

from Australia by T. Kealy

Over the coming months we will be writing and developing a series of specific application and industry information kits. These kits will cover the following areas:
* Colloids, slurries, minerals; * Paint, inks, adhesives; * Foodstuffs, gels, emulsions; * Polymers, rubbers, carbon black and these will be developed to coincide and support the seminar topic and program.

Currently, we have three technical notes as part of the Mineral Slurries Series available. They are titled:

- Brief report on the rheological considerations for applications with brown coal (Rheo012)
- Slurry rheology and pipeline transport properties, an overview (Rheo013)
- Overview of rheology-based process challenges for the mineral processing industries (Rheo014)

Copies of the Technical Notes are available electronically.



Australia Rated in the Top 10 Countries Worldwide

Rheology Solutions is pleased to advise that we have been selected as a **Premium Partner for Thermo Material Characterisation** in 2002.

In April 2002, Thermo Haake invited their top 10 distributors worldwide to join their four country based offices in Germany to form a new group called 10+4.

Given that Australia equates to <1% of the world population reaching the top 10 status is a great achievement.

Being a **Premium Partner** means that we will have even better access to information, application support and service. All of this equates to greater benefits for our customers.

Your support over the last four years has allowed us to achieve this status and with your continued support and our expanded range of services we plan to remain in the elite group of 10+4 worldwide.



RheoTalk

NEWS AND INFORMATION FROM RHEOLOGY SOLUTIONS

Information Request Form

Name:

Title:

Company:

Department:

Street:

Suburb/State/Country:

Telephone: Fax:

Email: please send future issues by email

From this issue of RheoTalk June-July 2002, I am interest in the following information:

- RheoScope 1 National Product Launch** please include me on the invitation mailing
- Seminars** - my particular area of interest is:
- Young Scientists Award**

Application Articles - please send me a copy of:

- Vane Sensor System in Small Strain Oscillatory Testing - Rheo005
- Rheological Behaviour of Automotive Paint Systems - Rheo008
- Laboratory Evaluation of In-Situ Gelled Acids for Carbonate Reservoirs - Rheo007
- The MiniLab to Monitor Reactive Systems - Rheo003
- Laboratory Scaled Mixers for Rubber Compound Qualification - Electrical Conductivity - Rheo011

Technical Notes - please send me a copy of:

- Brief report on the rheological considerations for applications with brown coal - Rheo012
- Slurry rheology and pipeline transport properties, an overview - Rheo013
- Overview of rheology-based process challenges for the mineral processing industries - Rheo014

Product Information - Please send me product information on:

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Please remove me from future newsletter mailings

Please post, fax, or email this form to Rheology Solutions or visit our website and complete our on-line information request form at www.rheologysolutions.com/newsletters.html

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