

# MICROSCOPY NEWS

## FROM THE DIRECTOR

I would like to take this opportunity to thank the users of Adelaide Microscopy for their support in 2008. Adelaide Microscopy has had one of the busiest years on record both in usage of equipment and training of new users. There have been many highlights.

In February the engagement with the Australian Microscopy and Microanalysis Research Facility (AMMRF) was realized with the launch of the FEI Helios Nanolab, one of the Flagship Instruments of the newly formed AMMRF. The installation of this instrument also saw the recruitment of Mr. Len Green as the Engineer in charge of this flagship instrument. Len brings to Adelaide Microscopy a wealth of experience in Electron Beam Instrumentation and he has already made a major contribution to the AM team. His knowledge of materials electron microscopy has been in high demand from the research community and industry users alike.

One highlight of the AMMRF engagement was the result of the national survey conducted in August of all users of the national network of facilities. It was very pleasing to see that AM was ranked second in Australia behind Sydney University's EM Unit. The ranking was based on a range of measurable factors like usage and also on the willingness of staff to provide the service needed to users. The AM staff takes their role in training, supporting and advising users seriously and I am extremely proud of their effort and commitment they make to making AM the place it is today.

I must make mention of the PhD thesis produced by Dr Justin Payne, Geology & Geophysics, The University of Adelaide. It really is no surprise that this thesis was awarded the Science Faculty's award for the best thesis submitted in 2008. Justin was one of those users of AM who took a great understanding of the instrumentation he used to carry out his research. Justin was also willing to give of his time to other users and on a couple of Ministerial visits he volunteered to demonstrate his science as one of the "bright young scientists" that the minister's office suggested would enhance the visits.

Dr Peter Self left Adelaide Microscopy in November. His service to AM and its users over the past 7 years has been widely applauded and although the staff of AM will miss Peter's contribution, we all wish him well in his future endeavors.

Dr Ben Wade will start in early January as a new staff member in Adelaide Microscopy. Ben brings a passion for analytical instrumentation and of course a wealth of knowledge in earth sciences. Ben will also be able to enhance the conversation in the tea room as one of his pastimes is dangling a line, one which I also enjoy.

Angus netting has worked hard this year to reduce the waiting times for ICPMS users. It was always going to be the impossible task with only one instrument but Angus has come up with a solution with the help from some "friends" at Agilent Technologies. A second ICPMS has been installed which will be dedicated to solution analysis so freeing up the other for laser ablation analysis.

Angus Netting will assume the role of Deputy Director AM in 2009 and along with Angus all of the staff look forward to your continued usage and the support that you have given us in the past. AM's role is to provide training, support and advice in the many microscopies and associated preparation techniques we offer, so if there are any questions or answers you seek, they are the people to talk to. Our web site [www.adelaide.edu.au/microscopy](http://www.adelaide.edu.au/microscopy) can direct you to most microscopy solutions.

I hope you have all enjoyed the festive season and I look forward to AM being part of your next successful year.

**John Terlet**

*Director, Adelaide Microscopy*

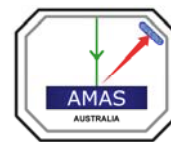
## AM WELCOMES NEW STAFF MEMBER

Hi, my name is Ben Wade and I am extremely pleased to be included as a new staff member at Adelaide Microscopy. My background is slightly different having been based in geology. I completed my doctorate at the University of Adelaide in 2006 which primarily involved age dating and isotopic analysis of a series of rocks within the far north-west of south Australia. From 2006 to the end of 2008 I was employed as an associate lecturer within the Department of Geology and Geophysics, lecturing the course Geology for Engineers. My duties at Adelaide Microscopy will initially involve the maintenance of the two Agilent 7500 ICP-MS instruments, along with the Philips XL20 and XL30 SEM's. In the future I aim to become familiar with the use of the Philips CM200 TEM/STEM housed within Adelaide Microscopy, and hope that my knowledge of geological systems will open up new avenues of analysis for potential users. I look forward to assisting and working with you all. **Ben Wade**



## AMAS X 10TH AUSTRALIAN MICROBEAM ANALYSIS SOCIETY SYMPOSIUM, ADELAIDE, FEB

AMAS is a special interest group of the parent society of The Australian Microscopy and Microanalysis Society. Following the past successes of AMAS meetings, we are holding the tenth AMAS symposium here in Adelaide. The meeting will be held at The University of Adelaide, South Australia. The aim of the Symposium is to provide a forum where participants can discuss microanalysis and imaging, with emphasis on practical solutions and applications. We strongly encourage you to present recent work using scanning or transmission electron microscopy and microanalysis. A series of workshops prior to the symposium have been arranged to review and discuss the state of the art in analytical microscopy, techniques and microanalysis. Workshops will be held on 9th and 10th February 2009. The three day Symposium will run from Wednesday 11th - Friday 13th February 2009.



**REGISTER BEFORE 9th JANUARY 2009 TO BE IN THE DRAW FOR AN IPOD NANO.** An additional day long workshop on [Laser Ablation ICPMS](#) is being held at Adelaide Microscopy the day after the Symposium on Saturday 14th February 2009. Download the registration form and get all the details via <http://microscopy.org.au/amas/Adelaide2009/>

**Angus Netting**

*Symposium Chairman AMAS X*

## RATES FOR 2009

Adelaide Microscopy instrument hire rates will remain the same for 2009. We are currently reviewing our processing charges for 2009 due to increased costs of supplies. We would like to remind users that hours booked on Calcium, the online booking system are charged to the user that made the booking. Please make sure the hours booked are correct. For a list of our rates go to <http://www.adelaide.edu.au/microscopy/services/fees/>

## FLUORESCENCE IMAGERS SA

The Fluorescence group will be meeting again throughout 2009. The next event of interest will be held late March or early April (date to be confirmed) at Adelaide Microscopy. An application specialist from Carl Zeiss Australia will be giving a presentation on new applications and techniques on PALM, Laser Microdissection and Pressure Catapulting (LMPC). Registered FISA members will be notified by email details of the presentation early 2009.

If you are interested in receiving information about FISA or upcoming meetings, please complete a registration form which can be found at: <http://www.adelaide.edu.au/microscopy/fisa>



## FAREWELL PETER

Dr Peter Self finished his time at Adelaide Microscopy in November 2008. We all wish him well in his new endeavours and thank him for the many years he worked at The University of Adelaide.

## HAROLD WOOLHOUSE PRIZE

Adelaide Microscopy congratulates one of our long time users of the Laser Ablation ICP-MS, **Dr Justin Payne** from the School of Earth and Environmental Science, (Geology). Justin was recently awarded the Harold Woolhouse Prize. This prestigious award is presented to a graduating PhD student for the most outstanding PhD thesis from The University of Adelaide's Faculty of Science. Well done Justin.

## CENTRE STAFF

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Call in for a discussion with our experienced team regarding any ideas you have about microscopy.

**JANUARY 2009**